

2082/08

Exam Roll No.

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Bachelor Level /BSc. Nsg./1st Year/TU/IOM
Integrated Health Science-I- BSN 1 Th.
Time: 3 hours
Full Marks: 80

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Use separate answer sheet for each group.

Group "A" - Anatomy - 16

1. Explain different anatomical plane. What do you mean by normal anatomical position? 2+2=4
2. Describe the features of stomach with a suitable diagram. 4
3. Name the organs of upper and lower respiratory tract. Describe briefly on a bronchopulmonary segment. 2+2=4
4. Write short notes on: 2x2=4
 - a. Autosomal dominant disorder
 - b. Ectopic pregnancy

Group "B" - Physiology - 16

5. What are different types of blood cells? What is their normal count in blood? List the major functions of each type of blood cells. 0.5+1+2.5=4
6. Mention the composition of gastric juice. Explain the functions of gastric juice. 1+3=4
7. Write short notes on: 4x2=8
 - a. Oxygen transport in blood
 - b. Functions of bile and enterohepatic circulation of bile
 - c. Cell membrane and its functions
 - d. Steps of skeletal muscle contraction

Group "C" - Pharmacology - 16

8. Classify routes of drug administration. Enlist advantages and disadvantages of sublingual route of drug administration. 2+1+1=4
9. Classify H₁ antihistamines. Mention its uses and adverse effects. 2+1+1=4
10. Describe mechanism of action of chloroquine. Mention its adverse effects. 2+2=4

11. Write short notes on:

- a. Disease modifying anti rheumatic drugs (DMARDs)
- b. Anti-spasmodics

2x2=4

Group "D" - Pathology - 16

12. Define thrombus. Describe risk factors for thrombosis. 1+3=4
13. Describe morphological features of squamous cell carcinoma of lungs. 4
14. Describe the etiopathogenesis and laboratory diagnosis of megaloblastic anemia. 4
15. Write short notes on: 2x2=4
 - a. Type II hypersensitivity reaction
 - b. Pneumothorax

Group "E" - Biochemistry - 8

16. Compare the biochemical changes in different types of Jaundice. 2
17. Describe the steps in aerobic glycolysis. 3
18. Write short notes on: 3x1=3
 - a. Functions of Calcium
 - b. Types of blood buffer and their significance
 - c. Structure of DNA

Group "F" - Microbiology - 8

19. Name the stain used to diagnose a case of leprosy. Write the principle of this staining method. 1+3=4
20. Name four common bacteria causing respiratory tract infection. Write the method of specimen collection for the laboratory diagnosis of pulmonary tuberculosis. 2+2=4

2082/08

Exam Roll No.

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Bachelor Level /BSc. Nsg./1st Year/TU/IOM
Integrated Health Science-II-BSN 2 Th.
Time: 3 hours
Full Marks: 80

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Attempt all the questions.

Use separate answer sheet for each group.

Group "A" - Anatomy - 16

1. Describe the internal features of right atrium of heart. 4
2. Explain the external features and name the coverings of kidney. 3+1=4
3. Explain the features of vaginal canal along with any two relevant clinical applied aspects. 3+1=4
4. Write short notes on: 2x2=4
 - a. Meninges
 - b. Thyroid gland

Group "B" - Physiology - 16

5. What are pulse rate and heart rate? State their normal values. Define tachycardia and bradycardia and mention four physiological causes of tachycardia and bradycardia. 1+0.5+2.5=4
6. List the hormones secreted from posterior pituitary gland and describe their functions. 1+3=4
7. Write short notes on: 4x2=8
 - a. Contraceptive methods in females
 - b. Functions of hypothalamus
 - c. Physiological role of juxta-glomerular apparatus
 - d. Direct and consensual light reflex

Group "C" - Pharmacology - 16

8. Describe the mechanism of action of furosemide. List two uses and two adverse effects of furosemide. 2+1+1=4
9. Classify hormonal contraceptives. Enlist contraindications of combined oral contraceptive pills. 2+2=4
10. Describe the mechanism of action of nitroglycerine as antianaginal agent. Mention its adverse effects. 2+2=4

11. Write short notes on:

- a. Rationale for combining adrenaline with lidocaine
- b. Topical corticosteroids

2x2=4

Group "D" - Pathology - 16

12. Describe gross and microscopic features of invasive breast carcinoma. 4
13. Enumerate the differences between nephritic and nephrotic syndrome. 4
14. List glial tumors. Describe the morphology of pilocytic astrocytoma. 2+2=4
15. Write short notes on: 2x2=4
 - a. Acromegaly
 - b. Retinoblastoma

Group "E" - Biochemistry - 8

16. List the hormones produced by adrenal cortex. Outline the biochemical functions of Aldosterone. 2+1=3
17. Describe the biochemical examination of CSF. 2
18. Write short notes on following: 3x1=3
 - a. Thyroid function test
 - b. Causes of Proteinuria
 - c. Types of Neurotransmitter

Group "F" - Microbiology - 8

19. A male patient in ICU has urinary catheter in-situ. Discuss the collection of urine specimen for culture in this case. Name any two common bacterial uropathogen. 3+1=4
20. List two common bacteria causing meningitis. Describe CSF finding in case of bacterial meningitis. 1+3=4

2081/10

Exam Roll#.....

Bachelor Level /BSc. Nsg./1st Year/TU/OM
Integrated Health Science-II-II Th.

Time: 3 hours
Full Marks: 80

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Attempt all the questions.

Use separate answer sheet for each group.

Group "A" - Anatomy - 16

1. Define meninges. Name its layers and spaces related to it. 1+1.5+1.5=4
2. Mention parts of aorta and write any four of its branches. 2+2=4
3. Name the organs of male reproductive system. Describe the features of Testis. 1+3=4
4. Write short notes on: 2x2=4
 - a. Source of development of Kidney
 - b. Skin

Group "B" - Physiology - 16

5. Define cardiac cycle. Explain its different phases. 1+3=4
6. Name the thyroid hormones. Describe the effects of thyroid hormones. 1+3=4
7. Define micturition. Explain micturition reflex. 1+3=4
8. Write short notes on: 2x2=4
 - a. Physiological changes in pregnancy.
 - b. Sensory receptors

Group "C" - Pharmacology - 16

9. Describe mechanism of action, uses and adverse effects of metformin. 2+1+1=4
10. Describe the mechanism of action of thiazide diuretic. List its uses and specific adverse effects. 2+1+1=4
11. Classify antiepileptic drugs. Mention mechanism of action of phenytoin. 2+2=4
12. Write short notes on: 2x2=4
 - a. Oxytocin
 - b. Topical antifungals

Group "D" - Pathology - 16

13. List the risk factors of atherosclerosis. List complications of myocardial infarction. 2+2=4
14. Describe gross and microscopic features of invasive ductal carcinoma, NOS. 4
15. Tabulate the CSF findings in pyogenic and tubercular meningitis. 4
16. Describe pathogenesis of Graves disease. 4

Group "E" - Biochemistry - 8

17. Describe the patterns of Free T₃, Free T₄ and TSH that are seen in a patient with Subclinical Hypothyroidism, Hypothyroidism and Hyperthyroidism. Write a note on autoimmune antibodies used in evaluation of thyroid hormones. 1.5+0.5=2
18. Outline the normal and abnormal findings that can be observed in the evaluation of a urine sample in the laboratory. 2
19. Outline the synthesis, release, action and inactivation of acetylcholine at a synapse. 2
20. Write short notes: 2 x 1 = 2
 - a. Troponin I
 - b. Oxytocin

Group "F" - Microbiology - 8

21. List two causative agent of bacterial meningitis. Write the CSF finding in this infection. 2+2=4
22. Explain the laboratory diagnosis of urinary tract infection. 4

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.
Attempt all the questions.

Use separate answer sheet for each group.

Group "A" – Anatomy - 16

1. Name the parts of brain. Explain briefly on the structure of brainstem. 1+3=4
2. Explain the location, structure and functions of adrenal gland. 4
3. Write short notes on: 2x4=8
 - a. Renal pelvis
 - b. Cornea
 - c. Pulmonary circulation
 - d. Ovary

Group "B" – Physiology - 16

4. What is cardiac output? Describe the factors regulating cardiac output. 1+4=5
5. List hormones of endocrine pancreas along with their functions. What is diabetes mellitus? 4+1=5
6. Write short notes on: 2x3=6
 - a. Functions of Kidneys
 - b. Pubertal changes in females

Group "C" – Pharmacology - 16

7. List the drugs used in management of hyperthyroidism. Explain the mechanism of action of propylthiouracil. 2+2=4
8. Describe the mechanism of action of enalapril. List the specific uses, and contraindications of enalapril. 2+1+1=4
9. Write short notes on: 2x4=8
 - a. Rationale for combining adrenaline with lidocaine
 - b. Emergency contraceptives
 - c. Nephrotoxic drugs
 - d. Mydriatics

Group "D" – Pathology - 16

10. Explain etiopathology of carcinoma cervix. 4
11. Describe risk factors and morphology of carcinoma of breast 4
12. List the causes and morphology of hydronephrosis. 4
13. Describe different types of hydrocephalus. 4

Group "E" – Biochemistry - 8

14. List the protein and enzymatic cardiac markers. 2
15. List the hormones of adrenal cortex and write important biochemical findings of Cushing's syndrome. 2
16. List the ABG findings of metabolic acidosis and respiratory acidosis. 2
17. Differentiate bacterial and viral meningitis based on CSF findings. 2

Group "F" – Microbiology - 8

18. List four common causative agents of sexually transmitted disease. Explain the microscopic finding in case of gonorrhea with well labeled diagram. 2+2=4
19. Write the mode of transmission of polio. Write about its vaccine. 1+3=4

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks. Attempt all the questions.

Use separate answer sheet for each group.

Group "A" - Anatomy - 16

1. Explain the coats of an eyeball. Explain how intraocular pressure is maintained. 3+1=4
2. Draw a neat, well labelled diagram of transverse section of spinal cord. 4
3. Write short notes on: 4x2=8
 - a. Adrenal gland
 - b. Male urethra
 - c. Arteries supplying heart
 - d. Appendages of skin

Group "B" - Physiology - 16

4. Define blood pressure. Explain the short-term regulation of blood pressure. 1+4=5
5. List the hormones secreted by anterior pituitary. Explain the physiological effects of growth hormone. 1+4=5
6. Write short notes on: 2x3=6
 - a. Spermatogenesis
 - b. Functions of middle ear

Group "C" - Pharmacology - 16

7. Enumerate the drugs used in treatment of angina pectoris. Explain the basis for using nitrates in stable angina pectoris. 2.5+1.5=4
8. list the drugs used in hyperthyroidism and describe the mechanism of action of propylthiouracil. 2+2=4

9. Write short notes on: 4x2=8
 - a. Nephrotoxic drugs
 - b. Therapeutic uses of estrogen preparations
 - c. Selective serotonin reuptake inhibitors (SSRI) as anti-depressant agents
 - d. Cholinergic agents

Group "D" - Pathology - 16

10. Describe morphological features of rheumatic heart disease. 4
11. Classify tumors of the central nervous system. 4
12. Define nephrotic syndrome and list its causes. 4
13. Describe gross and microscopic features of fibroadenoma of breast. 1+3=4

Group "E" - Biochemistry - 8

14. Describe the normal and abnormal compositions of CSF and their diagnostic importance. 2+2=4
15. Write short notes on: 2x2=4
 - a. cardiac markers
 - b. Urine analysis

Group "F" - Microbiology - 8

16. Name any two common bacteria causing meningitis. Describe the procedure to collect and transport CSF specimen for culture. 1+3=4
17. Name any four common causes of urinary tract infection (UTI). Describe the method to collect urine from patient with indwelling catheter. 2+2=4

2074/7

Bachelor Level /B.Sc. Nursing (FIRST YEAR)/TU, IOM Time: 3 hours
Integrated Health Sciences II Full Marks: 80
(Cardiovascular System, Endocrine System, Urinary System, Reproductive System, Nervous System, Special Sensory & Integumentary System)

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.
Attempt all the questions.

Use separate answer copies for each group.

Group A (Anatomy)

1. Explain the normal anatomy of mammary gland. 4
2. Explain the external features of heart. 4
3. Explain the coverings of central nervous system with relevant applied aspects. 3+1=4
4. Write short notes on: 2x2=4
 - a) Draw a neat labeled diagram of longitudinal section of kidney
 - b) Parts of uterus

Group B (Physiology)

5. Define cardiac output. Explain how baro-receptors regulate blood pressure. 1+3=4
6. Write short notes on: 2x6=12
 - a) Oxytocin
 - b) Micturition reflex
 - c) Antero-lateral spinothalamic tract
 - d) Ovulation and corpus luteum
 - e) Endocrine functions of kidneys
 - f) Functions of skin



Group C (Pharmacology)

7. Classify oral hypoglycemic agents. Explain the mechanism of action of sulfonylureas. 2+2=4
8. Describe mechanism of action, two uses and four adverse effects of enalapril. 2+1+1=4
9. Classify uterine stimulants. List two uses and adverse effects of oxytocin. 2+1+1=4
10. List the therapeutic uses of opioid analgesics and outline the management of morphine poisoning. 2+2=4

Group D (Pathology)

11. Describe pathogenesis and complications of atherosclerosis. 4
12. List the tumors of kidney. Describe the morphology of renal cell carcinoma. 4
13. Write short notes on: 2x4=8
- a) Benign prostatic hyperplasia
 - b) Hydrocephalus
 - c) Basal cell carcinoma
 - d) Grave's disease

Group E (Biochemistry)

14. Explain types and functions of apolipoproteins. 2.5
15. Write short notes on:
- a) Hyperthyroidism 2
 - b) Urea cycle 2
 - c) Neurotransmitter 1.5

Group F (Microbiology)

16. List out any five causative agents of infective endocarditis. 2.5
17. Explain the sample collection for the diagnosis of conjunctivitis. 2.5
18. Explain midstream urine sample collection method for the diagnosis of urinary tract infection. 3



2075/09

Bachelor Level /BSc. Nsg. (1st Year)/IOM
Integrated Health Science Th. II

Exam Roll#.....

Time: 3 hours

Full Marks: 80

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Attempt all the questions.

Use separate answer sheet for each group.

Group "A" - Anatomy - 16

1. Mention location, parts and hormones secreted by the pituitary gland 4
2. Name organs associated with female reproductive system. Explain parts of male urethra. 2+2=4
3. Write short notes on: 2x4=8
 - a. Content of spermatic cord
 - b. Nephron
 - c. Muscular artery
 - d. Spinal nerves

Group "B" - Physiology - 16

4. What is cardiac output? Mention its normal value. Describe the factors regulating cardiac output. 1.5+0.5+2=4
5. List the thyroid hormones. Describe the effects of thyroid hormones in different organ systems. Mention the pathophysiology of hyperthyroidism. 0.5+2.5+1=4
6. What is a neuron? Compare the effects of two divisions of autonomic nervous system on various organ systems. 1+3=4
7. Write a short notes on: 2x2=4
 - a. Glomerular filtration rate
 - b. Parturition reflex

Group "C" - Pharmacology - 16

8. List uterine stimulants. Write mechanism of action, clinical uses and contra- indication of oxytocin. 1+1+1+1=4
9. Classify Insulin. List its clinical uses. 3+1=4



10. Write brief notes on:

- a. ACE inhibitors
- b. Adverse effects of corticosteroids
- c. Mechanism of action of Hormonal post coital contraceptive pills
- d. Clinical uses of anti-cholinesterase.

2x4=8

Group "D" - Pathology - 16

11. List the risk factors of cervical carcinoma. Give the morphology of cervical squamous cell carcinoma.

12. Describe the etiopathogenesis of Graves disease.

5

13. Write briefly on:

- a. Astrocytoma
- b. Hydronephrosis

5

2x3=6

Group "E" - Biochemistry - 8

14. Classify lipoproteins. Why chylomicrons and VLDL are said to be atherogenic?

15. List the abnormal composition of urine. What do they signify?

3

16. List the cardiac markers and its consequences.

2

Group "F" - Microbiology - 8

17. Write down the four causative agents and laboratory diagnosis of vaginitis.

1+3=4

18. Define urinary tract infection (UTI). List out four causative agents of UTI, also explain sample collection method for laboratory diagnosis of UTI.

1+1+2=4

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Candidates are required to give their answers in their own words as far as practicable.
The figures in the margin indicate full marks.
Attempt all the questions.
Use separate answer copies for each group.

Group A (Anatomy)

1. Enumerate the anatomic structures which prevent uterine prolapse. 4
2. Enumerate the first four cranial nerves along with their sites of origin and functions. 4
3. Explain the location, structure and functions of parathyroid gland. 4
4. Enumerate the parts, extent and any six branches of aorta. 4

Group B (Physiology)

5. Define cardiac output. Mention its normal value. Describe the factors regulating cardiac output. 1+1+2=4
6. List the thyroid hormones. Describe the effects of thyroid hormones. List the features of hyperthyroidism. 1+2+1=4
7. Describe the major ascending tracts of spinal cord and list the sensations conducted by them. 2+2=4
8. Write short notes on: 2x2=4
 - a) Hemodialysis
 - b) Temporary methods of contraception

Group C (Pharmacology)

9. Describe mechanism of action, uses and adverse effects of Insulin. 1+1+2=4
10. Mention uses and adverse effects of furosemide. 2+2=4
11. Enumerate two groups of mydriatics with examples. Describe ocular actions of atropine with reasons in brief. 2+2=4
12. Classify antiepileptic drugs. Mention mechanism of action of phenytoin. 2x2=8
13. List the risk factors of atherosclerosis. List complications of myocardial infarction. 2+2=4
14. Define Hydronephrosis. List its causes and complications. 2+2=4

Group D (Pathology)

15. Write short notes on: 2x4=8
 - a) CSF findings in tuberculous meningitis
 - b) Complications of diabetes mellitus
 - c) Microscopic features of basal cell carcinoma
 - d) Classification of ovarian tumors

Group E (Biochemistry)

16. Describe the extrinsic pathway of blood coagulation. 2
17. How does vitamin-C help in iron metabolism? List the name of biochemical tests to diagnose Iron deficiency anemia. 1+1=2
18. Write short notes on: 1
 - a) Liver function tests and their importance. 1
 - b) Thyroid function test and their importance. 1+1=2
 - c) LH and FSH.

Group F (Microbiology)

19. Describe sample collection for urinary tract infection. 2.5
20. Describe life cycle of trichomonas vaginalis. 2.5
21. Describe mode of transmission of Japanese encephalitis. 2.5



MAHA

34

2078/04

Exam Roll#.....

Bachelor Level / BSc. Nsg. / 1st Year/TU/IOM Time: 3 hours
Integrated Health Science- II-II Th. Full Marks: 80

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Attempt all the questions.

Use separate answer sheet for each group.

Group "A" - Anatomy - 16

1. Name the chambers of hearts. List the openings present in each. Mention the names of valves located in these openings. 1+2+1=4

2. Describe the anatomy of the meningeal layers of the brain. Add a note on the fluid filled cavities present within the brain. 3+1=4

3. Define hormone and distinguish a hormone from a neurotransmitter. List some similarities and differences between the endocrine and nervous systems. 3+1=4

4. Add a note on the following:
a. Testis
b. Nephron 2x2=4

Group "B" - Physiology - 16

5. Explain the effects of sympathetic and parasympathetic nervous systems in various organs. 5

6. What is hormone? Explain the functions of thyroid hormone. 1+4+5

7. Write short notes on:
a. Follicular phase of ovarian cycle
b. Cardiac output 2x3=6

Group "C" - Pharmacology - 16

8. List the drugs used in management of hypertension. Describe in brief the mechanism of action of enalapril. 3+1=4

9. Enumerate the uses and adverse effects of corticosteroids. 2+2=4

10. Describe the mechanism of action of thiazide diuretic. List 2 uses and adverse effects of thiazide diuretic. 2+1+1=4

11. Write short notes on: 2x2=4

- a. Uses of anticholinergic agents
- b. Adverse effects of hormonal contraceptives

Group "D" - Pathology - 16

12. Enumerate causes of hydronephrosis. 5

13. Describe gross and microscopic features of infiltrating duct carcinoma, NOS. 5

14. Write short notes on: 2x3=6

- a. Schwannoma
- b. Fallopian tube

Group "E" - Biochemistry - 8

15. Classify Neurotransmitters with examples. 2

16. Compare thyroid function tests between Hypothyroidism and Hyperthyroidism. 2

17. Define creatinine clearance test. What is its significance? 1+1=2

18. Write down the biochemical function and diagnostic importance of:
a. Prolactin
b. Troponin I 2x1=2

Group "F" - Microbiology - 8

19. Mention the precautions while collecting urine sample for its culture. 2

20. Define four common organisms causing:
a. Meningitis
b. Infective endocarditis 2+2=4

21. Describe laboratory diagnosis of gonorrhoea. 2

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Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.
Attempt all the questions.

Use separate answer copies for each group.

Group A (Anatomy)

- 1 Describe briefly on the structure of mammary gland. 4
- 2 Describe briefly on the normal structure of a kidney. 4
- 3 Describe the external features of heart. 4
- 4 Write short notes on: 2x2=4
 - a) Thyroid gland
 - b) Coats of an eyeball

Group B (Physiology)

- 5 Describe the cardiac cycle and mention the basis of heart sounds. 4+2=6
Define tachycardia and give two physiological causes. 2x5=10
- 6 Write short notes on:
 - a) Functions of the cerebellum
 - b) Fluid and electrolyte balance by the kidneys
 - c) Hormones controlling menstrual cycle
 - d) Actions of growth hormone and oxytocin
 - e) Presbyopia and Weber's hearing test

Group C (Pharmacology)

- 7 Classify antidepressants. Mention adverse effects of amitriptyline. 2+2=4
- 8 Name the method of contraceptives most suitable for newly married couple. List six specific adverse effects of combined oral contraceptive pills. 1+3=4
- 9 Mention mechanism of action and four adverse effects of sulfonyleurea. 2+2=4
- 10 Enumerate four groups of drugs used for managements of glaucoma with their therapeutic basis. 2+2=4

Group D (Physiology)

- 11 Describe the etiology and complications of hypertension. 4
- 12 Describe different types of Hydrocephalus. 3
- 13 Write short notes on: 2x2=4
 - a) Schwannoma
 - b) Grave's disease
 - c) Leiomyoma

Group E (Biochemistry)

- 14 List the cardiac markers. Mention the importance of CPK (MB) and troponin I. 2
- 15 Explain the clinical significance of estimation of serum creatinine and serum urea. 2
- 16 List 4 neurotransmitters you know. Explain one of them. 2
- 17 Explain the functions of glucocorticoid hormone and thyroid hormone. 2

Group F (Microbiology)

- 18 How do you collect the blood sample for the diagnosis of infective endocarditis? 3
- 19 List out 2 common sexually transmitted diseases that are present in Nepal. 2
- 20 Define UTI. List types of urine specimens which can be used to culture urine for the diagnosis of UTI. 3



Examination Level: B.Sc. Nursing (First Year/1st Sem) Time: 3 hours
 Full Marks: 80
 Candidates are required to give their answers in their own words as far as practicable.

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 Attempt all the questions.

Use separate answer copies for each group.

Group A (Anatomy)

1. Explain the normal anatomy of mammary gland. 4
2. Explain the external features of heart. 4
3. Explain the coverings of central nervous system with relevant applied aspects. 3+1=4
4. Write short notes on: 2x2=4
 - a) Draw a neat labeled diagram of longitudinal section of kidney
 - b) Parts of uterus

Group B (Physiology)

5. Define cardiac output. Explain how baro-receptors regulate blood pressure. 1+3=4
6. Write short notes on: 2x6=12
 - a) Oxytocin
 - b) Micturition reflex
 - c) Antero-lateral spinothalamic tract
 - d) Ovulation and corpus luteum
 - e) Endocrine functions of kidneys
 - f) Functions of skin

Group C (Pharmacology)

7. Classify oral hypoglycemic agents. Explain the mechanism of action of sulfonylureas. 2+2=4
8. Describe mechanism of action, two uses and four adverse effects of enalapril. 2+1+1=4
9. Classify uterine stimulants. List two uses and adverse effects of oxytocin. 2+1+1=4
10. List the therapeutic uses of opioid analgesics and outline the management of morphine poisoning. 2+2=4

Group D (Histology)

11. Describe pathogenesis and complications of schizophrenia. 4
12. List the tumors of kidney. Describe the morphology of renal cell carcinoma. 2+4=3
13. Write short notes on:
 - a) Benign prostatic hyperplasia
 - b) Hydrocephalus
 - c) Basal cell carcinoma
 - d) Grave's disease

Group E (Biochemistry)

14. Explain types and functions of apolipoproteins. 2.5
15. Write short notes on:
 - a) Hyperthyroidism 2
 - b) Urea cycle 2
 - c) Neurotransmitter 1.5

Group F (Microbiology)

16. List out any five causative agents of infective endocarditis. 2.5
17. Explain the sample collection for the diagnosis of conjunctivitis. 2.5
18. Explain midstream urine sample collection method for the diagnosis of urinary tract infection. 3



20/01/22
Bachelor Level / B.Sc. Nursing (FIRST YEAR) / TU, IOM Time: 3 hours
Full Marks: 80
Integrated Health Sciences II
(Cardiovascular System, Endocrine System, Urinary System, Reproductive System, Nervous System, Special Sensory & Integumentary System)
Candidates are required to give their answers in their own words as far as practicable.
The figures in the margin indicate full marks.
Attempt all the questions.
Use separate answer copies for each group.

Group A (Anatomy)

1. Name different types of blood vessels. Differentiate between an artery and a vein. 1+3=4
2. List the organs of urinary system. Describe briefly on gross features of kidney. 1+3=4
3. Name the parts of brain. Name the cranial nerves and the sites of their origin in brain. 1+3=4
4. Write short notes on: 2x2=4
 - a) Adrenal gland
 - b) Sweat gland

Group B (Physiology)

5. What is Frank-Starling's law? Explain the properties of cardiac muscle. 1+4=5
6. List the adrenal hormones. List the functions of cortisol hormone. 1+2+2=5
- Describe the clinical condition that occurs due to hypersecretion of cortisol. 3x2=6
7. Write short notes on:
 - a) Effects of sympathetic nervous system on different organ/systems
 - b) Menarche and menopause

Group C (Pharmacology)

8. Describe mechanism of action and adverse effects of furosemide. 2+2=4
9. List uses and adverse effects of nifedipine. 2+2=4
10. Classify anticholinergic drugs. Mention contraindications of anticholinergic drugs. 2+2=4
11. Describe uses and adverse effects of propranolol.

Group D (Microbiology)

12. Describe etiopathogenesis and morphology of Brucella abortus disease. 2x4=8
13. Classify the tumors of ovary. 2x4=8
14. Write short notes on:
 - a) Glioblastoma
 - b) Basal cell carcinoma
 - c) Nephrotic syndrome
 - d) Grave's disease

Group E (Biochemistry)

15. Describe the fate of pyruvate in carbohydrate metabolism. 1.5
16. List the markers of myocardial infarction. 1.5
17. Why HDL is good cholesterol and LDL is bad cholesterol? 2
18. List the neurotransmitters under excitatory, inhibitory and mixed groups. What is the role of phenylethylamine in context to neurotransmitters? 1.5
19. Define creatinine clearance test. Write the clinical significance. 1.5

Group F (Microbiology)

20. List the microorganism causing (reproductive system) sexually transmitted infection (STI). 4
21. a) List the microorganism any four causing urinary tract infection. 2
- b) Describe the techniques of urine sample collection for microbial tests. 2

CAMPUS

2075/09

Exam Roll#.....

Bachelor Level / BSc. Nsg. (1st Year) / IOM
Integrated Health Science Th. II

Time: 3 hours

Full Marks: 80

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Attempt all the questions.

Use separate answer sheet for each group.

Group "A" - Anatomy - 16

Mention location, parts and hormones secreted by the pituitary gland

4

Name organs associated with female reproductive system. Explain parts of male urethra.

2+2=4

Write short notes on:

2x4=8

a. Content of spermatic cord

b. Nephron

c. Muscular artery

d. Spinal nerves

Group "B" - Physiology - 16

What is cardiac output? Mention its normal value. Describe the factors regulating cardiac output.

1.5+0.5+2=4

List the thyroid hormones. Describe the effects of thyroid hormones in different organ systems. Mention the pathophysiology of hyperthyroidism.

0.5+2.5+1=4

What is a neuron? Compare the effects of two divisions of autonomic nervous system on various organ systems.

1+3=4

Write a short notes on:

2x2=4

a. Glomerular filtration rate

b. Parturition reflex

Group "C" - Pharmacology - 16

List uterine stimulants. Write mechanism of action, clinical uses and contra-indication of oxytocin.

1+1+1+1=4

Classify Insulin. List its clinical uses.

3+1=4



Group D (Pathology)

1. Describe the etiology and complications of atherosclerosis. 4
2. Describe different types of Hydrocephalus. 3
3. Write short notes on: 3x3=9
 - a) Schwannoma
 - b) Grave's disease
 - c) Leiomyoma

Group E (Biochemistry)

4. List the cardiac markers. Mention the importance of CPK (MB) and troponin I. 2
5. Explain the clinical significance of estimation of serum creatinine and serum urea. 2
6. List 4 neurotransmitters you know. Explain one of them. 2
7. Explain the functions of glucocorticoid hormone and thyroid hormone. 2

Group F (Microbiology)

8. How do you collect the blood sample for the diagnosis of infective endocarditis? 3
 9. List out 2 common sexually-transmitted diseases that are present in Nepal. 2
 20. Define UTI. List types of urine specimens which can be used to culture urine for the diagnosis of UTI. 3
- ...

2071/2

Bachelor Level /B.Sc. Nursing (FIRST YEAR)/TU, IOM Time: 3 hours
Integrated Health Sciences II Full Marks: 80
(Cardiovascular System, Endocrine System, Urinary System, Reproductive System, Nervous System, Special Sensory & Integumentary System)

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Attempt all the questions.

Use separate answer copies for each group.

Group A (Anatomy)

1. Describe briefly on the structure of mammary gland. 4
2. Describe briefly on the normal structure of a kidney. 4
3. Describe the external features of heart. 4
4. Write short notes on: 2x2=4
 - a) Thyroid gland
 - b) Coats of an eyeball

Group B (Physiology)

5. Describe the cardiac cycle and mention the basis of heart sounds. Define tachycardia and give two physiological causes. 4+2=6
6. Write short notes on: 2x5=10
 - a) Functions of the cerebellum
 - b) Fluid and electrolyte balance by the kidneys
 - c) Hormones controlling menstrual cycle
 - d) Actions of growth hormone and oxytocin
 - e) Presbyopia and Weber's hearing test

Group C (Pharmacology)

7. Classify antidepressants. Mention adverse effects of amitriptyline. 2+2=4
8. Name the method of contraceptives most suitable for newly married couple. List six specific adverse effects of combined oral contraceptive pills. 1+3=4
9. Mention mechanism of action and four adverse effects of sulfonylurea. 2+2=4
10. Enumerate four groups of drugs used for managements of glaucoma with their therapeutic basis. 2+2=4

2078/04

Bachelor Level / HSc. Neg./1st Year/TU/ICM
Integrated Health Science - II-II Th.
Candidates are required to give their answers in their own words as far as practicable.
The figures in the margin indicate full marks.
Attempt all the questions.
Use separate answer sheet for each group.

Exam Roll#.....
Time: 3 hours
Full Marks: 80

Group "A" - Anatomy - 16

1. Name the chambers of heart. List the openings present in each. Mention the names of valves located in these openings. 1+2+1=4
2. Describe the anatomy of the meningeal layers of the brain. Add a note on the fluid filled cavities present within the brain. 3+1=4
3. Define hormone and distinguish a hormone from a neurotransmitter. List some similarities and differences between the endocrine and nervous systems. 3+1=4
4. Add a note on the following. 2x2=4
 - a. Testis
 - b. Nephron
5. Explain the effects of sympathetic and parasympathetic nervous systems in various organs. 5
6. What is hormone? Explain the functions of thyroid hormone. 1+4=5
7. Write short notes on: 2x3=6
 - a. Follicular phase of ovarian cycle
 - b. Cardiac output

Group "C" - Pharmacology - 16

8. List the drugs used in management of hypertension. Describe in brief the mechanism of action of enalapril. 3+1=4

9. Enumerate the uses and adverse effects of corticosteroids. 2+2=4
10. Describe the mechanism of action of thyroid drugs. List 2 uses and adverse effects of thioamide drugs. 2+1+1=4
11. Write short notes on: 2x2=4
 - a. Use of anticholinergic agents
 - b. Adverse effects of hormonal contraceptives

Group "D" - Pathology - 16

12. Enumerate causes of hyponatremia. 5
13. Describe gross and microscopic features of infiltrating duct carcinoma, NOS. 5
14. Write short notes on: 2x3=6
 - a. Schwannoma
 - b. Follicular testis

Group "E" - Biochemistry - 8

15. Classify Neurotransmitters with examples. 2
16. Compare thyroid function tests between Hypothyroidism and Hyperthyroidism. 2
17. Define creatinine clearance test. What is its significance? 2
18. Write down the biochemical function and diagnostic importance of:
a. Prolactin 2x1=2
b. Tryptophan

Group "F" - Microbiology - 8

19. Mention the precautions while collecting urine sample for its culture. 2
20. Define four common organisms causing:
a. Meningitis 2+2=4
b. Infective endocarditis
21. Describe laboratory diagnosis of gonorrhea. 4

Group A (Anatomy)

1. Name different types of blood vessels. Differentiate between an artery and a vein. 1+3=4
2. List the organs of urinary system. Describe briefly on gross features of kidney. 1+3=4
3. Name the parts of brain. Name the cranial nerves and the sites of their origin in brain. 1+3=4
4. Write short notes on: 2x2=4
 - a) Adrenal gland
 - b) Sweat gland

Group B (Physiology)

5. What is Frank-Starling's law? Explain the properties of cardiac muscle. 1+4=5
6. List the adrenal hormones. List the functions of cortisol hormone. Describe the clinical condition that occurs due to hypersecretion of cortisol. 1+2+2=5
7. Write short notes on: 3x2=6
 - a) Effects of sympathetic nervous system on different organ/systems
 - b) Menarche and menopause

Group C (Pharmacology)

8. Describe mechanism of action and adverse effects of furosemide. 2+2=4
9. List uses and adverse effects of nifedipine. 2+2=4
10. Classify anticholinergic drugs. Mention contraindications of anticholinergic drugs. 2+2=4
11. Describe uses and adverse effects of propylthiouracil. 2+2=4

Group E (Biochemistry)

15. Describe the fate of pyruvate in carbohydrate metabolism. 1.5
16. List the markers of myocardial infarction. 1.5
17. Why HDL is good cholesterol and LDL is bad cholesterol? 2
18. List the neurotransmitters under excitatory, inhibitory and mixed groups. What is the role of phenylalanine in context to neurotransmitters? 1.5
19. Define creatinine clearance test. Write the clinical significance. 1.5

Group F (Microbiology)

20. List the microorganism causing (reproductive system) sexually transmitted infection (STI). 4
21. a) List the microorganism any four causing urinary tract infection. 4
 b) Describe the techniques of urine sample collection for microbial tests. 2

12. Describe etiopathogenesis and management of Rheumatic Heart disease. 2+2=4
13. Classify the tumors of ovary. 2
14. Write short notes on: 2x4=8
 - a) Glioblastoma
 - b) Basal cell carcinoma
 - c) Nephrotic syndrome
 - d) Grave's disease

207312

Time: 3 hours
Full Marks: 80

Bachelor Level/B.Sc. Nursing (FIRST YEAR) PTU, JOM
Integrated Health Sciences II
(Cardiovascular System, Endocrine System, Urinary System, Reproductive System, Nervous System, Special Sensory & Integumentary System)

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Attempt all the questions.

Use separate answer copies for each group.

Group A (Anatomy)

1. Name different types of blood vessels. Differentiate between an artery and a vein. 1+3=4
2. List the organs of urinary system. Describe briefly on gross features of kidney. 1+3=4
3. Name the parts of brain. Name the cranial nerves and the sites of their origin in brain. 1+3=4
4. Write short notes on: 2x2=4
 - a) Adrenal gland
 - b) Sweat gland

Group B (Physiology)

5. What is Frank-Starling's law? Explain the properties of cardiac muscle. 1+4=5
6. List the adrenal hormones. List the functions of cortisol hormone. Describe the clinical condition that occurs due to hypersecretion of cortisol. 1+2+2=5
7. Write short notes on: 3x2=6
 - a) Effects of sympathetic nervous system on different organ/systems
 - b) Menarche and menopause

Group C (Pharmacology)

8. Describe mechanism of action and adverse effects of furosemide. 2+2=4
9. List uses and adverse effects of nifedipine. 2+2=4
10. Classify anticholinergic drugs. Mention contraindications of anticholinergic drugs. 2+2=4
11. Describe uses and adverse effects of propranolol. 2+2=4

Group D (Histology)

12. Describe etiopathogenesis and morphology of Rheumatoid disease. 2x2=4
13. Classify the tumors of ovary. 2x2=4
14. Write short notes on: 2x4=8
 - a) Glioblastoma
 - b) Basal cell carcinoma
 - c) Nephrotic syndrome
 - d) Grave's disease

Group E (Biochemistry)

15. Describe the fate of pyruvate in carbohydrate metabolism. 1
16. List the markers of myocardial infarction. 1
17. Why HDL is good cholesterol and LDL is bad cholesterol? 1
18. List the neurotransmitters under excitatory, inhibitory and mixed groups. What is the role of phenylethylamine in central nervous system? 1
19. Define creatinine clearance test. Write the clinical significance. 1

Group F (Microbiology)

20. List the microorganism causing (reproductive system) sexually transmitted infection (STI). 1
21. a) List the microorganism any four causing urinary tract infection. 1
- b) Describe the techniques of urine sample collection for microbial tests. 1

2082/04

Exam Roll No.

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Bachelor Level /BSc. Nsg./1st Year/TU/IOM
Integrated Health Science-II-II Th.Time: 3 hours
Full Marks: 80

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Attempt all questions.

Use separate answer sheet for each group.

Group "A" – Anatomy – 16

1. Explain the features of uterus and mention it's any two developmental anomalies. 3+1=4
2. Explain the features of urinary bladder with relevant applied aspects. 3+1=4
3. Write short notes on: 4x2=8
 - a. Inferior venacava
 - b. CSF circulation
 - c. Dermis of skin
 - d. Lymphoid organs

Group "B" – Physiology – 16

4. What is hormone? Explain the functions of growth hormone. 1+3=4
5. Describe the uterine changes in different phases of menstrual cycle. 3+1=4
6. What is amenorrhea? 1+3=4
6. Define blood pressure. Describe factors affecting blood pressure. 2x2=4
7. Write short notes on:
 - a. Functions of kidneys
 - b. Functions of skin

Group "C" – Pharmacology – 16

8. List the drugs used in management of hypertension. Describe in brief mechanism of action of enalapril. 3+1=4
9. Classify various insulin preparations. Enlist uses and specific adverse effects of insulin. 2+1+1=4
10. Mention uses and adverse effects of benzodiazepines. 2+2=4
11. Write short notes on: 2x2=4
 - a. Potassium sparing diuretics
 - b. Mydriatics

Group "D" – Pathology – 16

12. Describe pathology of Myocardial infarction. 4
13. Classify tumors of breast. Describe the morphology of fibroadenoma. 2+2=4
14. Describe pathogenesis of Hashimoto's thyroiditis. 4
15. List common skin tumors. Describe the morphology of squamous cell carcinoma. 1+3=4

Group "E" – Biochemistry – 8

16. List two excitatory and two inhibitory neurotransmitters. How do they differ in mechanism of action? 1+1=2
17. Outline the hormones produced by the adrenal gland and list the disorders associated with over-production and under-production of adrenal hormones. 2
18. Describe the normal and abnormal composition of urine. 2
19. Write short notes on: 2x1=2
 - a. Cardiac Biomarkers
 - b. Iron deficiency anemia Profile

Group "F" – Microbiology – 8

20. Write the mode of transmission of syphilis. List two non-specific and two specific serological tests to diagnose syphilis. 2+2=4
21. Describe blood culture for the laboratory diagnosis of infective endocarditis. 4

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Attempt all the questions.

Use separate answer sheet for each group.

Group "A" – Anatomy - 16

1. Classify muscles tissue. Explain any one of them with a suitable diagram. 1+3=4
2. Name the lobes of liver. Describe the formation and termination of extrahepatic biliary ducts. 1+3=4
3. Write short notes on: 4x2=8
 - a. Pleura
 - b. Trisomy 21 (twenty-one)
 - c. Result of fertilization
 - d. Structure of a lymph node

Group "B" – Physiology - 16

4. What is peristalsis? Explain the functions of small intestine. 1+4=5
5. What is vital capacity? Explain the process of pulmonary ventilation. 1+4=5
6. Write short notes on: 2x3=6
 - a. Resting membrane potential and Action potential.
 - b. Immunity and its types

Group "C" – Pharmacology - 16

7. Define pharmacodynamics. Enumerate the various drug targets with suitable examples. 1+3=4
8. Enumerate the various drugs used in management of bronchial asthma. Describe in brief the mechanism of action of theophylline 3+1=4
9. Write short notes on: 4x2=8
 - a. Non-depolarizing skeletal muscle relaxants

- b. Antiplatelet drugs
- c. WHO-ORS formula in management of diarrhoea
- d. Essential drugs

Group "D" – Pathology - 16

10. Define neoplasm. Explain modes of spread of malignant tumor. 2+3=5
11. Classify soft tissue tumors. Describe morphology of osteosarcoma. 3+2=5
12. Write short notes: 3x2=6
 - a. Cirrhosis
 - b. Bronchial asthma
 - c. Hodgkin lymphoma

Group "E" – Biochemistry - 8

13. Outline the biochemical roles of Vitamin A and Vitamin D. 2
14. A 45-year-old man has alcoholic liver disease. List the biochemical tests used to evaluate this patient and the expected findings. 2
15. Describe polysaccharides with examples. 2
16. Define buffers. List the different buffers present in our body. 1+1=2

Group "F" – Microbiology - 8

17. Define serodiagnosis. List two infections that can be diagnosed by immunochromatography method. 1+1=2
18. A patient is diagnosed with leprosy. 1+3=4
 - a. Name the pathogen causing this infection.
 - b. Explain its pathogenesis.
19. Explain the procedure to collect specimen from a case of suspected pulmonary tuberculosis. 2

**Bachelor Level /BSc. Nsg./1st Year/TU/OM
Integrated Health Science-I-I Th.****Time: 3 hours
Full Marks: 80**

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Use separate answer sheet for each group.

Group "A" – Anatomy – 16

1. Name the movements of the hip joint. Classify synovial joint with examples. 1+3=4
2. Explain the features of esophagus with applied aspects. 3+1=4
3. Write short notes on: 4x2=8
 - a. X-linked recessive disorder
 - b. Deltoid muscle
 - c. Trachea
 - d. Simple squamous epithelium

Group "B" – Physiology – 16

4. Explain the digestion and absorption process of proteins and carbohydrates. 2+2=4
5. List the lung volumes and capacities. Explain how oxygen is transported in the blood. 1+3=4
6. Describe mechanism of skeletal muscle contraction. 4
7. Write short notes on: 2x2=4
 - a. Functions of stomach
 - b. Homeostasis

Group "C" – Pharmacology – 16

8. Enumerate the various drugs used in bronchial asthma. Describe in brief the mechanism of action of theophylline. 3+1=4
9. Describe the mechanism of action of heparin. List its uses and specific adverse drug reactions. 2+1+1=4
10. Describe the mechanism of action of metoclopramide. Write two indications and two adverse effects of metoclopramide. 2+1+1=4
11. Write short notes on: 2x2=4
 - a. Selective COX-2 inhibitors
 - b. Augmented type of adverse drug reaction (Type A ADR)

Group "D" – Pathology – 16

12. Define shock. Explain briefly about septic shock. 1+3=4
13. List risk factors of carcinoma of stomach. Describe its gross and microscopic features. 1+3=4
14. Explain pathophysiology of chronic bronchitis. 4
15. Describe pathogenesis and clinical features of iron deficiency anemia. 4

Group "E" – Biochemistry – 8

16. Outline the roles of Calcitriol and Parathyroid hormone in Calcium and Phosphorus metabolism. 2
17. Describe the metabolism of bilirubin with a focus on transport, conjugation and excretion from the body. 2
18. Outline the functions of proteins in the body. 2
19. Write short notes on: 2x1=2
 - a. ABG (arterial blood gas analysis) Profile of Respiratory acidosis
 - b. Types of RNA and their function

Group "F" – Microbiology – 8

20. Write the principle of autoclave. List four articles sterilized by autoclave. 2+2=4
21. Name four common intestinal parasites. Write the mode of transmission and infective stage of *Ascaris lumbricoides*. 2+2=4

2080/10

Exam Roll#.....

Bachelor Level /B.Sc. Nursing/1st Year/TU/IOM Time: 3 hours
Integrated Health Science – I – I Th. Full Marks: 80

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Attempt all the questions.

Use separate answer sheet for each group.

Group "A" – Anatomy - 16

1. Classify muscles tissue. Explain any one of them with a suitable diagram. 1+3=4
2. Name the lobes of liver. Describe the formation and termination of extrahepatic biliary ducts. 1+3=4
3. Write short notes on: 4x2=8
 - a. Pleura
 - b. Trisomy 21 (twenty-one)
 - c. Result of fertilization
 - d. Structure of a lymph node

Group "B" – Physiology - 16

4. What is peristalsis? Explain the functions of small intestine. 1+4=5
5. What is vital capacity? Explain the process of pulmonary ventilation. 1+4=5
6. Write short notes on: 2x3=6
 - a. Resting membrane potential and Action potential.
 - b. Immunity and its types

Group "C" – Pharmacology - 16

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9. Write short notes on: 4x2=8
 - a. Non-depolarizing skeletal muscle relaxants

- b. Antiplatelet drugs
- c. WHO-ORS formula in management of diarrhoea
- d. Essential drugs

Group "D" – Pathology - 16

10. Define neoplasm. Explain modes of spread of malignant tumor. 2+3=5
11. Classify soft tissue tumors. Describe morphology of osteosarcoma. 3+2=5
12. Write short notes: 3x2=6
 - a. Cirrhosis
 - b. Bronchial asthma
 - c. Hodgkin lymphoma

Group "E" – Biochemistry - 8

13. Outline the biochemical roles of Vitamin A and Vitamin D. 2
14. A 45-year-old man has alcoholic liver disease. List the biochemical tests used to evaluate this patient and the expected findings. 2
15. Describe polysaccharides with examples. 2
16. Define buffers. List the different buffers present in our body. 1+1=2

Group "F" – Microbiology - 8

17. Define serodiagnosis. List two infections that can be diagnosed by immunochromatography method. 1+1=2
18. A patient is diagnosed with leprosy. 1+3=4
 - a. Name the pathogen causing this infection.
 - b. Explain it's pathogenesis.
19. Explain the procedure to collect specimen from a case of suspected pulmonary tuberculosis. 2

2081/07

Exam Roll#.....

Bachelor Level /BSc. Nsg./1st Year/TU/OM
Integrated Health Science-I-1 Th.

Time: 3 hours
Full Marks: 80

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Use separate answer sheet for each group.

Group "A" - Anatomy - 16

1. Explain the structure of liver and name any two applied aspects of it. 3+1=4
2. Define joint. Mention the subtype of synovial joints with examples. 1+3=4
3. Define pleura. Explain the anatomy of right lung. 1+3=4
4. Write short notes on: 2x2=4
 - a. 2nd week of embryonic development
 - b. Name the axial bones

Group "B" - Physiology - 16

5. Define homeostasis. Explain the negative feedback mechanism of homeostatic control with examples. 1+3=4
6. Explain the functions of the liver. What is jaundice? 3+1=4
7. Enumerate the steps of erythropoiesis. Explain the role of different factors that control erythropoiesis. 2+2=4
8. Write short notes on: 4x1=4
 - a. Vital capacity
 - b. Pathophysiology of Myasthenia Gravis
 - c. Peptic ulcer
 - d. Surfactant and surface tension of alveoli

Group "C" - Pharmacology - 16

9. Define adverse drug reactions. Describe various types of adverse drug reaction with suitable examples. 1+3=4
10. Describe the mechanism of action of chloroquine. List its specific uses and adverse drug reactions. 2+1+1=4

11. Classify bronchodilators. Mention mechanism of action of aminophylline. 2+2=4

12. Write short notes on 2x2=4
 - a. Oral rehydration salt
 - b. Selective COX-2 inhibitors

Group "D" - Pathology - 16

13. Define necrosis. Describe the gross and microscopy of caseous necrosis. 1+3=4
14. Classify bone tumors. 4
15. Define embolus. Describe the different types of embolus. 1+3=4
16. Describe the etiopathogenesis of bronchial asthma. 4

Group "E" - Biochemistry - 8

17. Outline the steps of ketone bodies utilization (Ketolysis). 2
18. Explain the role of Vitamin D on calcium absorption. 2
19. Differentiate biochemically the hepatic and post hepatic jaundice. 2
20. List the diagnostic uses of enzymes with examples. 2

Group "F" - Microbiology - 8

21. Name any two moist heat method of sterilization. Explain the working condition of autoclave. 2+2=4
22. List two common bacteria causing diarrhea. Explain in brief laboratory diagnosis of cholera. 1+3=4

Bachelor Level /BSc. Nsg./1st Year/TU/IOM

Time: 3 hours
Full Marks: 80

Integrated Health Science-I-1 Th.
Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Use separate answer sheet for each group.

Group "A" - Anatomy - 16

1. Differentiate between right and left lungs. Explain briefly on diaphragm. 2+2=4
2. Mention the boundaries and contents of cubital fossa. Name any two clinical applied aspects related to it. 3+1=4
3. Explain the structure and function of stomach. 3+1=4
4. Write short notes on: 2x2=4
 - a. Turner syndrome
 - b. Anatomical planes

Group "B" - Physiology - 16

5. What is tidal volume? Explain the mechanism of respiration. 1+3=4
6. List the composition of gastric juice. Explain the functions of stomach. 1+3=4
7. What are platelets? Describe the mechanism of blood coagulation. 1+3=4
8. Write short notes on: 2x2=4
 - a. Body fluid compartments
 - b. Isotonic skeletal muscle contraction

Group "C" - Pharmacology - 16

9. Define pharmacokinetics. List three microsomal enzyme inducers and three inhibitors. 1+1.5+1.5=4
10. Classify the drugs used for treatment of gout. Explain the mechanism of action of colchicine and list its adverse effects. 2+1+1=4
11. Classify drugs that decrease secretion of gastric HCl. Explain mechanism of action of pantoprazole. 2+2=4
12. Write short notes on: 2x2=4
 - a. Antitussives in cough
 - b. Aspirin as antiplatelet agent

Group "D" - Pathology - 16

13. Define inflammation. Discuss briefly the etiopathogenesis of chronic granulomatous inflammation. 1+3=4
14. Classify soft tissue tumors. 4
15. Define cirrhosis. Describe etiology of cirrhosis. 1+3=4
16. Classify anemia according to etiology. Describe the morphology of megaloblastic anemia. 2+2=4

Group "E" - Biochemistry - 8

17. Describe the factors that affect enzyme activity. 2
18. Outline the reference pH range of arterial blood. Define and classify buffers with examples. 0.5+1.5=2
19. What are the blood tests that can be ordered in a patient with jaundice? List the tests and expected findings. 2
20. Write short notes: 2 x 1 = 2
 - a. Glycogen
 - b. Essential Amino Acid

Group "F" - Microbiology - 8

21. Write down two beneficial roles and two harmful roles of normal flora. 2+2=4
22. Name two common bacteria causing lower respiratory tract infection. Describe the laboratory diagnosis of pulmonary tuberculosis. 2+2=4

2081/10

Exam Roll#.....

Bachelor Level /BSc. Nsg/1st Year/TU/IOM
Integrated Health Science-I-17th.

Time: 3 hours
Full Marks: 80

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Use separate answer sheet for each group.

Group "A" - Anatomy - 16

1. Differentiate between right and left lungs. Explain briefly on diaphragm. 2+2=4
2. Mention the boundaries and contents of cubital fossa. Name any two clinical applied aspects related to it. 3+1=4
3. Explain the structure and function of stomach. 3+1=4
4. Write short notes on: 2x2=4
 - a. Turner syndrome
 - b. Anatomical planes

Group "B" - Physiology - 16

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6. List the composition of gastric juice. Explain the functions of stomach. 1+3=4
7. What are platelets? Describe the mechanism of blood coagulation. 1+3=4
8. Write short notes on: 2x2=4
 - a. Body fluid compartments
 - b. Isotonic skeletal muscle contraction

Group "C" - Pharmacology - 16

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 - a. Antitussives in cough
 - b. Aspirin as antiplatelet agent

Group "D" - Pathology - 16

13. Define inflammation. Discuss briefly the etopathogenesis of chronic granulomatous inflammation. 1+3=4
14. Classify soft tissue tumors. 4
15. Define cirrhosis. Describe etiology of cirrhosis. 1+3=4
16. Classify anemia according to etiology. Describe the morphology of megaloblastic anemia. 2+2=4

Group "E" - Biochemistry - 8

17. Describe the factors that affect enzyme activity. 2
18. Outline the reference pH range of arterial blood. Define and classify buffers with examples. 0.5+1.5=2
19. What are the blood tests that can be ordered in a patient with jaundice? List the tests and expected findings. 2
20. Write short notes: 2 x 1 = 2
 - a. Glycogen
 - b. Essential Amino Acids

Group "F" - Microbiology - 8

21. Write down two beneficial roles and two harmful roles of normal flora. 2+2=4
22. Name two common bacteria causing lower respiratory tract infection. Describe the laboratory diagnosis of pulmonary tuberculosis. 2+2=4

2080/10

Exam Roll#.....

Bachelor Level /B.Sc. Nursing/1st Year/TU/IOM Time: 3 hours
Integrated Health Science – I – 1 Th. Full Marks: 80

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Attempt all the questions.

Use separate answer sheet for each group.

Group "A" – Anatomy - 16

1. Classify muscles tissue. Explain any one of them with a suitable diagram. 1+3=4
2. Name the lobes of liver. Describe the formation and termination of extrahepatic biliary ducts. 1+3=4
3. Write short notes on: 4x2=8
 - a. Pleura
 - b. Trisomy 21 (twenty-one)
 - c. Result of fertilization
 - d. Structure of a lymph node

Group "B" – Physiology - 16

4. What is peristalsis? Explain the functions of small intestine. 1+4=5
5. What is vital capacity? Explain the process of pulmonary ventilation. 1+4=5
6. Write short notes on: 2x3=6
 - a. Resting membrane potential and Action potential.
 - b. Immunity and its types

Group "C" – Pharmacology - 16

7. Define pharmacodynamics. Enumerate the various drug targets with suitable examples. 1+3=4
8. Enumerate the various drugs used in management of bronchial asthma. Describe in brief the mechanism of action of theophylline 3+1=4
9. Write short notes on: 4x2=8
 - a. Non-depolarizing skeletal muscle relaxants

- b. Antiplatelet drugs
- c. WHO-ORS formula in management of diarrhoea
- d. Essential drugs

Group "D" – Pathology - 16

10. Define neoplasm. Explain modes of spread of malignant tumor. 2+3=5
11. Classify soft tissue tumors. Describe morphology of osteosarcoma. 3+2=5
12. Write short notes: 3x2=6
 - a. Cirrhosis
 - b. Bronchial asthma
 - c. Hodgkin lymphoma

Group "E" – Biochemistry - 8

13. Outline the biochemical roles of Vitamin A and Vitamin D. 2
14. A 45-year-old man has alcoholic liver disease. List the biochemical tests used to evaluate this patient and the expected findings. 2
15. Describe polysaccharides with examples. 2
16. Define buffers. List the different buffers present in our body. 1+1=2

Group "F" – Microbiology - 8

17. Define serodiagnosis. List two infections that can be diagnosed by immunochromatography method. 1+1=2
18. A patient is diagnosed with leprosy. 1+3=4
 - a. Name the pathogen causing this infection.
 - b. Explain it's pathogenesis.
19. Explain the procedure to collect specimen from a case of suspected pulmonary tuberculosis. 2

Candidates are required to give their answers in their own words as far as practicable.
The figures in the margin indicate full marks.
Use separate answer sheet for each group.

Group "A" - Anatomy - 16

1. List different types of synovial joints with examples. Write down the characteristic features of synovial joint. 2+2=4
2. Write the difference between small intestine and large intestine. 4
3. Write short notes on:
 - a. Spermatogenesis 2x4=8
 - b. Thoracic duct
 - c. Composition of blood
 - d. Diaphragm

Group "B" - Physiology - 16

4. Define homeostasis. Describe the negative feedback regulation with example. 1+4=5
5. Give the composition and functions of gastric juice. 2+3=5
6. Write short notes on:
 - a. Action potential 3x2=6
 - b. Immunity

Group "C" - Pharmacology - 16

7. Classify the different routes of drug administration with suitable examples. Give two advantages of sublingual route of drug administration. 3+1=4
8. Explain the mechanism of action of metoclopramide and list its two specific uses and two specific adverse effects. 2+1+1=4
9. Write short notes on:
 - a. Vaccines 4x2=8
 - b. H_1 antihistamines

- c. Use of allopurinol in management of acute gout
- d. Parenteral iron therapy

Group "D" - Pathology - 16

10. Define anemia. List the causes of iron deficiency anemia. 1+3=4
11. Discuss the etiopathogenesis of bronchial asthma. 4
12. Define necrosis. Describe the morphology of coagulative necrosis. 1+3=4
13. Discuss the etiopathogenesis of colonic carcinoma. 4

Group "E" - Biochemistry - 8

14. List the effects of Vitamin D, calcitonin and parathormone on Calcium and phosphorus metabolism. 2
15. List the liver functions test. How it helps in diagnosing obstructive jaundice? 1+1=2
16. Explain the digestion and absorption of proteins. 1+1=2
17. Define aerobic and anaerobic glycolytic. 1+1=2

Group "F" - Microbiology - 8

18. Enumerate any four ideal properties of disinfectants. 4
19. How will you collect blood sample for culture for the diagnosis of enteric fever. 2
20. Name the pathogen causing cholera. What is the best specimen to diagnose cholera in Microbiology laboratory. 1+1=2

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.
Attempt all the questions.

Use separate answer sheet for each group.

Group "A" – Anatomy - 16

1. Mention the source of development, normal position and any four supports of uterus. 1+1+2=4
2. Mention the extent of spinal cord. Name any four descending tracts of spinal cord. 2+2=4
3. Write short notes on: 4x2=8
 - a. Features of right atrium
 - b. Ureter
 - c. Tympanic membrane
 - d. Posterior lobe of pituitary gland

Group "B" – Physiology - 16

4. What is cardiac cycle? Explain the phases of cardiac cycle. 1+4=5
5. What is autonomic nervous system? Differentiate between sympathetic and parasympathetic nervous system. 1+4=5
6. Write short notes on: 2x3=6
 - a. Pathophysiology of Cushing's syndrome
 - b. Physiology of menarche and menopause

Group "C" – Pharmacology - 16

7. Describe mechanism of action, uses and adverse effects of metformin. 2+1+1=4
8. Mention uses and adverse effects of thiazides. 2+2=4
9. Classify the drugs used in congestive heart failure. Explain the rationale for use of digoxin in heart failure. 2+2=4
10. Compare the features of oxytocin and ergometrine. 4

Group "D" – Pathology - 16

11. List the risk factors of atherosclerosis. List complications of myocardial infarction. 2+2=4
12. Classify glial tumors. Describe morphology of glioblastoma. 2+2=4
13. Write short notes on: 4x2=8
 - a. CSF findings in viral meningitis
 - b. Graves disease
 - c. Microscopic features of squamous cell carcinoma
 - d. Hydronephrosis

Group "E" – Biochemistry - 8

14. Compare the thyroid function parameters in subclinical hypothyroidism, primary hypothyroidism and secondary hypothyroidism. 2
15. Enlist the parameters of renal function test (glomerular and tubular function). What will be the biochemical features in Nephrotic syndrome? 1.5+0.5=2
16. List any four excitatory neurotransmitters. Describe the biochemical CSF changes in bacterial meningitis. 1+1=2
17. Write the short notes in the following: 2x1=2
 - a. Cardiac Troponin
 - b. Hormonal alterations in female infertility

Group "F" – Microbiology - 8

18. Write about the screening tests for a case of HIV infection. 3
19. List two common bacterial causes of bloodstream infection. Which culture media is used during collection of specimen from a case of bloodstream infection? 2+1=3
20. What are the changes in CSF analysis in a case of bacterial meningitis? 2

2081/01

Exam Roll#.....

Bachelor Level /BSc. Neg/1st Year/TU/IOM
Integrated Health Science-I Th.
Time: 3 hours
Full Marks: 80

Candidates are required to give their answers in their own words as far as practicable.
The figures in the margin indicate full marks.
Use separate answer sheet for each group.

Group "A" - Anatomy - 16

1. Mention the similarities and differences between spermatogenesis and oogenesis. 4
2. Explain the location, parts and functions of stomach. 4
3. Explain the structure and function of spleen. 4
4. Enumerate the boundary and content of cubital fossa with relevant applied aspect. 4

Group "B" - Physiology - 16

5. Mention the physiological basis of blood transfusion. Explain the hazards of blood transfusion. 2+3=5
6. Define tidal volume. Explain the process of inspiration and expiration. 1+4=5
2X3=6
7. Write short notes on:
a. Skeletal muscle contraction
c. Diffusion and osmosis

Group "C" - Pharmacology - 16

8. What is the mechanism of action of metronidazole? Give two indications of metronidazole. Why a person taking metronidazole should not consume alcohol? 2+1+1=4
9. What is therapeutic drug monitoring? List the conditions requiring TDM with suitable examples. 1+3=4
10. Compare depolarizing and non-depolarizing neuromuscular blockers. 4
11. Classify the drugs used for the treatment of cough. Briefly describe the mechanism of action of codeine and list its specific adverse effects. 2+1+1=4

Group "D" - Pathology - 16

12. Classify soft tissue tumors. Describe the gross and microscopic features of lipoma. 2+2=4
13. Define pneumonia. Discuss the morphology of lobar pneumonia. 1+3=4
2X4=8
14. Write short notes on:
a. Cholecystitis
b. Cirrhosis
c. Pulmonary thromboembolism
d. Type I hypersensitivity reaction

Group "E" - Biochemistry - 8

15. Describe the role of parathyroid hormone in bone and kidney. 1+1=2
2
16. Explain the digestion and absorption of lipids. 2
17. Draw and label the components of oxidative phosphorylation. 2X1=2
18. Write short notes on:
a. IUBMB classification of enzymes
b. Nucleotides

Group "F" - Microbiology - 8

19. Write the beneficial roles of normal flora. 3
20. List any four intestinal parasites. Write the mode of transmission of *Taenia*. 2+1=3
21. Write the causative agent of pertussis. Name the vaccine used to prevent this infection. 1+1=2

2080/04

Exam Roll#.....

Bachelor Level /BSc. Nsg./1st Year/TU/IOM Time: 3 hours
Integrated Health Science-I-1 Th. Full Marks: 80

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Use separate answer sheet for each group.

Group "A" - Anatomy - 16

1. List different types of synovial joints with examples. Write down the characteristic features of synovial joint. 2+2=4
2. Write the difference between small intestine and large intestine. 4
3. Write short notes on:
a. Spermatogenesis 2x4=8
b. Thoracic duct
c. Composition of blood
d. Diaphragm

Group "B" - Physiology - 16

4. Define homeostasis. Describe the negative feedback regulation with example. 1+4=5
5. Give the composition and functions of gastric juice. 2+3=5
6. Write short notes on:
a. Action potential 3x2=6
b. Immunity

Group "C" - Pharmacology - 16

7. Classify the different routes of drug administration with suitable examples. Give two advantages of sublingual route of drug administration. 3+1=4
8. Explain the mechanism of action of metoclopramide and list its two specific uses and two specific adverse effects. 2+1+1=4
9. Write short notes on:
a. Vaccines 4x2=8
b. H₁ antihistamines
c. Use of allopurinol in management of acute gout
d. Parenteral iron therapy

Group "D" - Pathology - 16

10. Define anemia. List the causes of iron deficiency anemia. 1+3=4
11. Discuss the etiopathogenesis of bronchial asthma. 4
12. Define necrosis. Describe the morphology of coagulative necrosis. 1+3=4
13. Discuss the etiopathogenesis of colonic carcinoma. 4

Group "E" - Biochemistry - 8

14. List the effects of Vitamin D, calcitonin and parathormone on Calcium and phosphorus metabolism. 2
15. List the liver functions test. How it helps in diagnosing obstructive jaundice? 1+1=2
16. Explain the digestion and absorption of proteins. 1+1=2
17. Define aerobic and anaerobic glycolytic. 1+1=2

Group "F" - Microbiology - 8

18. Enumerate any four ideal properties of disinfectants. 4
19. How will you collect blood sample for culture for the diagnosis of enteric fever. 2
20. Name the pathogen causing cholera. What is the best specimen to diagnose cholera in Microbiology laboratory. 1+1=2

2079/07

Exam Roll#.....

Bachelor Level / B.Sc. Nursing / 1st Year / TU / IOM Time: 3 hours
Integrated Health Science - I - I Th. Full Marks: 80

Candidates are required to give their answers in their own words as far as practicable.
The figures in the margin indicate full marks.

Attempt all the questions.

Use separate answer sheet for each group.

Group "A" - Anatomy - 16

1. Name the lobes of liver. Describe the formation and termination of extrahepatic biliary ducts. 1+3=4 4
2. Classify bone according to shape. Give examples of each. 4x2=8 4
3. Write short notes on:
 - a. Proliferative phase of menstrual cycle
 - b. Trachea
 - c. Axillary lymph nodes
 - d. Trisomy 21

Group "B" - Physiology - 16

4. Define homeostasis. Explain with examples the positive feedback mechanism of homeostatic control. 1+4=5 5
5. Explain the digestion and absorption of fats in the gastrointestinal tract. 2x3=6 6
6. Write short notes on:
 - a. Pulmonary diffusion
 - b. Innate immunity

Group "C" - Pharmacology - 16

7. Define therapeutic drug monitoring. Outline the usefulness of TDM with suitable examples. 1+3=4 4
8. Enumerate the various drugs used in bronchial asthma. Describe in brief the mechanism of action of theophylline. 3+1=4 4
9. Compare depolarizing and non-depolarizing neuromuscular blockers. 4

10. Write short notes on:

- a. Oral rehydration salt
- b. Uses of diethylcarbamazine

Group "D" - Pathology - 16

11. Define neoplasia. Differentiate between benign and malignant tumors. 1+3=4 4
12. Define anemia. Classify anemia based on etiology. 1+3=4 4
13. What are obstructive lung diseases? Describe about bronchiectasis. 1+3=4 4
14. Explain the pathophysiology of carcinoma of stomach. 2x2=4 4

Group "E" - Biochemistry - 8

15. Mention the hormones regulating calcium homeostasis. 1.5+1.5=3 2
16. Write functions of liver. List the liver function test. 1.5+1.5=3 2x1.5=3 3
17. Write short notes on:
 - a. Anion gap and its significance
 - b. Essential amino acids

Group "F" - Microbiology - 8

18. Write the name of any one method commonly used for the sterilization of the following:
 - a. Operation theatre
 - b. Plastic syringe
 - c. Milk
 - d. Skin site for venipuncture 1x4=4 4
19. Describe the procedure to collect blood to prepare thick and thin smear for the diagnosis of malaria. 4

2x2=4

2079/07

Exam Roll#.....

Bachelor Level /B.Sc. Nursing/1st Year/TU/IOM Time: 3 hours
Integrated Health Science - II - II Th. Full Marks: 80

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Attempt all the questions.

Use separate answer sheet for each group.

Group "A" - Anatomy - 16

1. Mention the source of development, normal position and any four supports of uterus. 1+1+2=4
2. Name any four ascending tracts of spinal cord with their functions. 2+2=4
3. Write short notes on:
a. Features of right ventricle 4x2=8
b. Urinary bladder
c. Epidermis of thin skin
d. Anterior lobe of pituitary gland

Group "B" - Physiology - 16

4. Describe the effects of sympathetic nervous system activity on various organ systems. 5
5. List the various methods of contraception in man and in woman. Explain any one method of contraception in females. 2+3=5
6. Write short notes on:
a. Glomerular filtration rate (GFR) 2x3=6
b. Arterial pulse

Group "C" - Pharmacology - 16

7. Classify antihypertensive drugs. List two uses and two important adverse effects of enalapril. 2+2=4
8. Enlist the therapeutic uses and adverse drug effects of glucocorticoids. 2+2=4

9. Write short notes on:

2x4=8

- a. Mechanism of action of loop diuretics
- b. Emergency contraceptives
- c. Adverse drug reactions due to antipsychotic drugs
- d. Antiadrenergic drugs

Group "D" - Pathology - 16

10. Discuss the etiopathogenesis of renal cell carcinoma. 4
11. Discuss the etiopathogenesis of atherosclerosis. 4
12. Classify ovarian tumors. 4
13. Classify tumors of breast. Describe morphology of infiltrating ductal carcinoma. 2+2=4

Group "E" - Biochemistry - 8

4x2=8

14. Write short notes on:
a. List cardiac markers.
b. Functions of the kidney
c. List male and female sex hormones
d. Physiological important buffers

Group "F" - Microbiology - 8

15. Explain how will you diagnose syphilis in microbiology laboratory. 4
16. Describe the procedure to collect and transport mid-stream urine from female patient. 4

2080/10

Exam Roll#.....

Bachelor Level /B.Sc. Nursing/1st Year/TU/IOM Time: 3 hours
Integrated Health Science – II – II Th. Full Marks: 80

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Attempt all the questions.

Use separate answer sheet for each group.

Group "A" – Anatomy - 16

1. Describe the anatomy of uterus and vaginal canal. Mention their sources of development. 2+1+1=4
2. Explain the gross features of kidney with any two applied aspects. 3+1=4
3. Name the cranial nerves in sequence and mention their functions. 4
4. Write short notes: 2+2=4
 - a. Conducting system of heart
 - b. Thyroid gland

Group "B" – Physiology - 16

5. What is cardiac output? Explain the factors affecting cardiac output. 1+4=5
6. What is physiology of puberty? Explain pubertal changes in male. 1+4=5
7. Write short notes on 2x3=6
 - a. Physiology of taste and smell
 - b. Functions of kidneys

Group "C" – Pharmacology - 16

8. Classify the drugs used in hypertension. Describe the mechanism of action of enalapril. 2+2=4
9. Classify general anesthetic agents. Describe the special features of nitrous oxide. 2+2=4
10. Write short notes on: 2x4=8
 - a. Topical antibiotics

- b. Emergency contraceptives
- c. Compare the differences between loop diuretics and thiazide diuretics
- d. Uses and adverse effects of corticosteroids

Group "D" – Pathology - 16

11. Differentiate between nephritic and nephrotic syndrome. 5
12. Describe gross and microscopic features of astrocytoma. 5
13. Write short notes: 3x2=6
 - a. Hashimoto thyroiditis
 - b. Schwannoma
 - c. Endometriosis

Group "E" – Biochemistry - 8

14. Outline the laboratory evaluation of a urine sample. List the expected findings in urinary tract infection. 2
15. Describe in short the hormones associated with the female reproductive system and their functions. 2
16. Discuss the findings in a Cerebrospinal Fluid Sample (CSF Sample) in a patient with bacterial (pyogenic) meningitis. 2
17. Outline the tests utilized in evaluation of thyroid function. What are the expected laboratory findings in hyperthyroidism? 2

Group "F" – Microbiology - 8

18. A patient received tetanus toxoid vaccination following cut injury by rusty knife. 1+3=4
 - a. Name the pathogen from which this vaccine prevents infection.
 - b. Explain the pathogenesis of that infection.
19. List four common pathogens of sexually transmitted infection. Describe the morphology of the pathogen causing gonorrhoea. 2+2=4



Exam Roll#
Time: 3 hours
Full Marks: 80

Full Marks: 80
Answers in their

marks,
up.

Name the different lobes of the lung - 16

Name the different lobes of the lung - 16

structures present in inferior surface of liver. List the impressions and Name the paranasal sinuses.

$$2+2=4$$

Describe the common life opening of each:

$$2+2=4$$

Which directional terms can be used to describe the anatomical position of the human body?

can be used to specify the relationship between the sternal

white snoff notes on:

$$3 + 1 = 4$$

Gastrulation

$$2 \times 2 = 4$$

Group "B" - Physiology - 16

group "B" - Physiology - 16

excitation-contraction coupling in skeletal muscle.

contraction coupling in skeletal muscle.

the composition of pancreatic juice along with the functions.

... juice along with their

Write short notes on:

$$2 + 3 = 5$$

b. Body fluid composition

$$2 \times 3 = 6$$

Group "C" - Pharmacology - 16

Group "C" - Pharmacology - 16

adverse drug reactions. Describe various

Describe the mechanism of acid-catalyzed hydration of alkenes with suitable examples.

$$1 + 3 = 4$$

indications and two adverse effects of meloclopramide.

1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26

neuro-muscular blocking agents, just two out of

5:15

THE EFFECTS OF SUCCINYLCHOLINE ON THE SHORT-TERM POTENTIALS OF THE CAUDATE NUCLEUS OF THE RAT

40-21000

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2x2=4

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U

- a. Antitussives in cough
- b. Uses of therapeutic drug monitoring

Group "D" - Pathology - 16

12. Classify soft tissue tumors. Describe the morphology of lipoma. 3+2=5
13. Define neoplasia. List the differences between benign and malignant tumors. 1+4=5
14. Write short notes on: 2x3=6
 - a. Classification of anaemia
 - b. Intestinal obstruction

Group "E" - Biochemistry - 8

15. Explain the digestion and absorption of Carbohydrates. 1+1=2
16. Define Buffers. List the different buffers in our body. 2
17. List liver function tests. 2
18. List ketone bodies. "Liver can synthesize ketone bodies but cannot utilize it." Explain. 1+1=2

Group "F" - Microbiology - 8

19. Name one method you would follow for the sterilization of: 4x0.5=2
 - a. Operation theatre
 - b. Milk
 - c. Plastic syringe
 - d. Catgut
20. Describe procedure to collect blood for the diagnosis of malaria. 2
21. Describe the laboratory diagnosis of cholera. 2
22. List two enzymes and two toxins produced by *Staphylococcus aureus*. 1+1=2



2075/09

Exam Roll#.....

**Bachelor Level /BSc. Nsg. (1st Year)/IOM
Integrated Health Science Th. I**

**Time: 3 hours
Full Marks: 80**

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.
Use separate answer sheet for each group.

Group "A" - Anatomy - 16

1. Define connective tissue. Classify connective tissue with examples.
1+3=4
2. Describe different parts and layers of stomach with well labeled diagram
2+2=4
3. Mention the composition of blood
4
4. Write short notes on:
a. Oogenesis
b. Skeletal muscle
2x2=4

Group "B" - Physiology - 16

5. Mention the composition of blood. Explain the hazards of blood transfusion.
2+2=4
6. Define hypoxia. Explain transport of oxygen in blood.
1+3=4
7. Explain the process of digestion and absorption of protein and fat in gastrointestinal tract.
2+2=4
8. Write short notes on:
a. Functions of cell membrane
b. Isometric Vs. Isotonic contraction
2x2=4

Group "C" - Pharmacology - 16

9. Define therapeutic drug monitoring. Write its uses with examples.
1+3=4
10. Classify NSAIDS. Write its mechanism of action and its important adverse effects.
2+1+1=4



MAHARAJGUNJ NURSING CAMPUS
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11. Write briefly on:

2x4=8

- a. Triple therapy in management of *Helicobacter pylori* induced peptic ulcer
- b. Nasal decongestants
- c. Differences of low molecular weight heparin compared to unfractionated heparin
- d. Malaria chemoprophylaxis

Group "D" - Pathology - 16

12. Define necrosis. List its types with examples. 1+3=4
13. List tumors of bone. Describe the morphology of osteosarcoma. 2+2=4
14. Define peptic ulcer disease. Describe its morphology. 1+3=4
15. Write short notes on : 2x2=4
 - a. Classification of haemolytic anemia
 - b. Chronic myeloid leukaemia

Group "E" - Biochemistry - 8

6. Explain the role of calcium in muscle contraction and relaxation,. 2+1=3
7. List the liver function test. What will the test report in chronic alcoholic liver disease? 2+1=3
8. Describe the fate of glucose in our body. 2

Group "F" - Microbiology - 8

9. Define sterilization. List the methods of sterilization. Write the principle of tyndalization. 1+2+1=4

Write down the laboratory diagnosis of *Entamoeba histolytica*. 4



2074/7

Bachelor Level /B.Sc. Nursing (FIRST YEAR) IOM
Integrated Health Sciences I
(General Concept, Musculoskeletal System, Gastro Intestinal System,
Respiratory System, Blood Lymphatic & Immune system)
Time: 3 hours
Full Marks: 80

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.
Attempt all the questions.

Use separate answer copies for each group.

Group A (Anatomy)

1. Name the muscles of respiration. Explain the structure and function of diaphragm. 1+3=4
2. Describe the gross feature of duodenum. 4
3. Explain the extent and features of trachea and principle bronchi. 2+2=4
4. Write short notes on:
a) Mendelian trait 2x2=4
b) Lymphoid tissue 2x2=4

INSTITUTE OF MEDICAL SCIENCES
MAHARAJGUNJ NURSING CAMPUS
LIBRARY

Group B (Physiology)

5. Define peristalsis. Explain the process of digestion and absorption of fat in gastrointestinal tract. 1+5=6
6. Write short notes on: 2.5x4=10
a) Hypoxia
b) Hazards of blood transfusion
c) Vital capacity
d) Effects of exercise on body

Group C (Pharmacology)

7. What is drug bioavailability? Explain the factors affecting it with suitable examples. 1+3=4
8. Classify drugs used in peptic ulcer. Explain the mechanism of action of proton pump inhibitor. 3+1=4
9. Enumerate drugs used in acute gout. Explain the mechanism of action and adverse effect of colchicine. 1+1.5+1.5=4
10. Describe management of status asthmaticus. 4

Group D (Pathology)

- | | |
|--|-------|
| 11. Define shock. Describe briefly about different types of shock. | 4 |
| 12. Define anemia. Give classification of anemia. | 4 |
| 13. Write short notes on: | 2x4=8 |
| a) Tuberculosis of lung | |
| b) Pancreatitis | |
| c) Ricketts | |
| d) AIDS | |

Group E (Biochemistry)

- | | |
|--------------------------------------|-----|
| 14. Sketch the outline of TCA cycle. | 3 |
| 15. Write short notes on: | |
| a) Role of PTH | 1.5 |
| b) Ammonium buffer | 1.5 |
| c) Jaundice | 2 |

Group F (Microbiology)

- | | |
|---|---|
| 16. Describe sample collection for the diagnosis of lower respiratory tract infections. | 6 |
| 17. List out any two chemicals used for disinfection or antiseptis. | 2 |

Bachelor Level /B.Sc. Nursing/1st Year/TU/IOM
Integrated Health Science - I - I Th.
Full Marks: 80
Time: 3 hours
Candidates are required to give their answers in their own words
as far as practicable.
The figures in the margin indicate full marks.
Attempt all the questions.
Use separate answer sheet for each group.

Group "A" - Anatomy - 16

1. Explain the anatomy of stomach with relevant applied aspects. 4
2. Classify simple epithelium with appropriate examples. 4
3. Write short notes on: 4x2=8
 - a. Turner syndrome
 - b. Oogenesis
 - c. Paranasal sinuses
 - d. Thoracic duct

Group "C" - Pharmacology - 16

4. Mention the composition and functions of blood. What is anemia? 4+1=5
5. Mention the composition of pancreatic juice along with its functions. 2+3=5
6. Write short notes on: 2x3=6
 - a. Body fluid compartments
 - b. Pathophysiology of peptic ulcer
7. Define pharmacokinetics. List three microsomal enzyme inducers and three inhibitors. 1+1.5+1.5=4
8. Classify the drugs used in peptic ulcer disease. Explain the rational of combining aluminum hydroxide with magnesium hydroxide as antacids. 3+1=4
9. Write short notes on: 2x4=8

- a. Drugs used in acute gout
- b. Second generation H₁ antihistamines
- c. Therapeutic uses of heparin
- d. Impact of irrational use of drugs

Group "D" - Pathology - 16

10. Classify soft tissue tumors.
11. Describe the mechanism of wound healing
12. Describe etiopathogenesis of peptic ulcer.
13. Describe different types of necrosis.

Group "E" - Biochemistry - 8

14. Explain the role of calcium in muscle contraction and relaxation.
15. List the liver function tests and its implications.
16. Briefly outline the fate of glucose in our body.
17. Compare DNA and RNA.

Group "F" - Microbiology - 8

18. Write down two beneficial roles and two harmful roles of normal flora. 2+
19. Name one method you would follow for the sterilization of: 4x0.
 - a. Operation theatre
 - b. Surgical set
 - c. Plastic syringe
 - d. Catgut
20. Name any two bacteria and any two parasites causing gastroenteritis. ***

2073/12

Bachelor Level /B.Sc. Nursing (FIRST YEAR) IOM
Integrated Health Sciences I
(General Concept, Musculoskeletal System, Gastro Intestinal System, Respiratory System, Blood Lymphatic & immune system)

Time: 3 hours
Full Marks: 80

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Attempt all the questions.

Use separate answer copies for each group.

Group A (Anatomy)

1. Describe normal anatomy of stomach with relevant applied aspects.
3+1=4
2. Classify bone with appropriate examples.
4
3. Explain the structure of pleura and pleural cavity.
3+1=4
4. Write short notes on:
2x2=4
 - a) Thoracic duct
 - b) Teratogenic agents

Group B (Physiology)

5. List different lung volumes and capacities. Explain gas diffusion through the respiratory membrane.
1+4=5
6. Describe how proteins are digested in the GI tract.
5
7. Write short notes on:
3x2=6
 - a) Negative feed back control system
 - b) Effects of physical exercise on skeletal muscles

Group C (Pharmacology)

8. Classify routes of drug administration. Describe advantages of oral route of administration.
2+2=4
9. List drugs used in gout. Describe mechanism of action and adverse effects of probenecid.
1+2+1=4
10. Write the composition of oral rehydration salt along with the reason for including such components.
2+2=4
11. Describe mechanism of action and adverse effects of theophyllin.

Bachelor Level /B.Sc. Nursing (First Year) IOM
 Integrated Health Sciences I
 (General Concept, Musculoskeletal System, Gastro Intestinal System,
 Genitourinary System, Blood Lymphatic & Immune system)
 Candidates are required to give their answers in their own words as far as practicable.
 The figures in the margin indicate full marks.
 Attempt all the questions.
 Use separate answer copy for each group.

Time: 3
 Full M

2073/7

Bachelor Level /B.Sc. Nursing (FIRST YEAR) IOM Time: 3 hours
 Integrated Health Sciences I Full Marks: 80
 (General Concept, Musculoskeletal System, Gastro Intestinal System,
 Respiratory System, Blood Lymphatic & Immune system)

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Attempt all the questions.

Use separate answer copies for each group.

Group A (Anatomy)

1. Name the muscles of respiration. Explain the structure and function of diaphragm. 1+3=4
2. Describe the gross feature of duodenum. 4
3. Explain the extent and features of trachea and principle bronchi.
4. Write short notes on: 2+2=4
 a) Mendelian trait 2x2=4
 b) Lymphoid tissue

Group B (Physiology)

5. Define peristalsis. Explain the process of digestion and Absorption of fat in gastrointestinal tract. 1+5=6
6. Write short notes on: 2.5x4=10
 a) Hypoxia
 b) Hazards of blood transfusion
 c) Vital capacity
 d) Effects of exercise on body



Group C (Pharmacology)

7. What is drug bioavailability? Explain the factors affecting it with suitable examples. 1+3=4
8. Classify drugs used in peptic ulcer. Explain the mechanism of action of proton pump inhibitor. 3+1=4
9. Enumerate drugs used in acute gout. Explain the mechanism of action and adverse effect of colchicine. 1+1.5+1.5=4
10. Describe management of status asthmaticus. 4

2071/2

Bachelor Level /B.Sc. Nursing (FIRST YEAR) IOM
Integrated Health Sciences I
(General Concept, Musculoskeletal System, Gastro Intestinal System,
Respiratory System, Blood Lymphatic & Immune system)
Time: 3 hours
Full Marks: 80

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.
Attempt all the questions.

Use separate answer copies for each group.

Group A (Anatomy)

1. Describe the gross anatomy of biliary tree.
2. Describe briefly on gross features of trachea.
3. Describe briefly the morphology of a synovial joint.

Write short notes on:

- a) Tonsil
- b) Turner's syndrome



Group B (Physiology)

Describe the mechanism of inspiration and expiration. Explain the role of peripheral chemoreceptors and pneumotaxic center.

Write short notes on:

- a) Isometric and isotonic muscle contraction
- b) Digestion and absorption of fat
- c) Bleeding time and clotting time
- d) Differences between ECF and ICF compartments
- e) Vital capacity and FEV₁

Group C (Pharmacology)

Classify routes of drug administration. Give advantages of subcutaneous route.

Enumerate four groups drug used for treatment of peptic ulcer with their therapeutic basis.

List various groups of drugs used for treatment of gout. Describe mechanism of action of allopurinol.

List four groups of drugs used for treatment of bronchial asthma with examples. Mention the advantages of administering inhalational glucocorticoids in this condition.

Group D (Pathology)

11. Define inflammation. List the causes of granulomatous inflammation.
Describe the morphology of tuberculous granuloma. 1+1+1=3
12. Give the classification of soft tissue tumors. 4
13. Write short notes on:
a) Megaloblastic anemia 3x3=9
b) Bronchial asthma
c) Peptic ulcer

Group E (Biochemistry)

14. Define transamination and deamination. 2
15. List the functions of plasma proteins. 1
16. Explain metabolic alkalosis. 2
17. List the LFT parameters that are abnormal in obstructive jaundice. 1
18. Role of PTH in calcium homeostasis. 2

Group F (Microbiology)

19. Write the difference between endotoxin and exotoxin. 3
20. List out the four lesions produced by *Staphylococcus aureus*. 2
21. List out three common organisms causing lower respiratory tract infections. 3



2075/09

Bachelor Level / BSc. Nsg. (1st Year)/IOM
Integrated Health Science Th. I

Exam Roll#.....

Time: 3 hours

Full Marks: 80

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Use separate answer sheet for each group.

Group "A" - Anatomy - 16

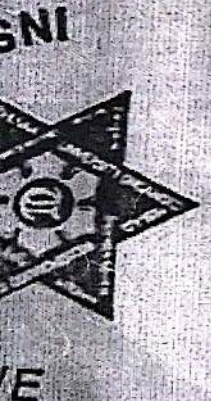
1. Define connective tissue. Classify connective tissue with examples.
1+3=4
2. Describe different parts and layers of stomach with well labeled diagram
2+2=4
3. Mention the composition of blood
4
4. Write short notes on;
a. Oogenesis
2x2=4
- b. Skeletal muscle

Group "B" - Physiology - 16

1. Mention the composition of blood. Explain the hazards of blood transfusion.
2+2=4
2. Define hypoxia. Explain transport of oxygen in blood.
1+3=4
3. Explain the process of digestion and absorption of protein and fat in gastrointestinal tract.
2+2=4
4. Write short notes on;
a. Functions of cell membrane
2x2=4
- b. Isometric Vs. Isotonic contraction

Group "C" - Pharmacology - 16

1. Define therapeutic drug monitoring. Write its uses with examples.
1+3=4
2. Classify NSAIDS. Write its mechanism of action and its important adverse effects.
2+1+1=4



2078/04

Examin Roll No.....
Bachelor Level / BSc. Med. / 1st Year / TU / IOM
Time: 3 hours
Full Marks: 80
Candidates are required to give their answers in their own words as far as practicable.
The figures in the margin indicate full marks.
Use separate answer sheet for each group.

Group 'A' - Anatomy - 10

1. Name the different lobes of liver. List the impressions and structures present in inferior surface of liver. 2+2=4
2. Name the paranasal sinuses. Mention the opening of each. 2+2=4
3. Describe the anatomical position of the human body. Which directional terms can be used to specify the relationship between the sternum and the humerus? 3+1=4
4. Write short notes on:
a. Gastrulation
b. Pannett square 2+2=4

Group 'B' - Physiology - 10

5. Explain briefly the excitation-contraction coupling in skeletal muscle. 5
6. List the composition of pancreatic juice along with their functions. 2+3=5
7. Write short notes on:
a. Pathophysiology of hypoxia
b. Body fluid compartments 2+3=6

Group 'C' - Pharmacology - 10

8. Define adverse drug reactions. Describe various types of adverse drug reaction with suitable examples. 1+3=4
9. Describe the mechanism of action of metoclopramide. Write two indications and two adverse effects of metoclopramide. 2+1+1=4
10. Classify neuromuscular blocking agents. List two uses and two adverse effects of succinylcholine. 2+1+1=4
11. Write short notes on:
a. Local anesthetic agents
b. Antiarrhythmic drugs

Group 'D' - Pathology - 10

12. Classify soft tissue tumors. Describe the histology of lipoma. 1+3=4
13. Define neoplasm. List the differences between benign and malignant tumors. 1+4=5
14. Write short notes on:
a. Classification of anemia
b. Intestinal obstruction 2+3=5
15. Explain the digestion and absorption of carbohydrates. 1+1=2
16. Define buffers. List the different buffers in our body. 2
17. List liver function tests. 2
18. List ketone bodies. Liver can synthesize ketone bodies but cannot utilize it. Explain. 1+1=2

Group 'E' - Biochemistry - 8

19. Name one method you would follow for the estimation of:
a. Operation theatre
b. Milk
c. Plasma synthesis
d. Calcium 2
20. Describe procedure to collect blood for the diagnosis of diabetes. 2
21. Describe the laboratory diagnosis of chronic renal failure. 2
22. List two enzymes and two factors influencing their activity. 1+1=2
23. Write short notes on:
a. Staphylococcus aureus
b. Streptococcus pneumoniae

2081/01

Exam Roll #

Bachelor Level /B.Sc. Nursing (1st Year. TU/IOM
Nutrition and Diet Therapy- VIII Th.

Time: 1½ hour
Full Marks: 40

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.
Attempt all questions.

- ① Describe the relationships between nutrition and health. How do you classify five food groups explain it with examples? 2+6=8
- ② Define therapeutic diet. Describe the different types of diets given to patients in TUTH. Explain the purpose and indication of any one of this. 2+4+2=8
- ③ What are essential amino acids? Describe the functions of proteins. List the dietary sources and daily requirements of protein for different age groups. 2+2+2+2=8
4. How will you assess the nutritional status of under five children? How can you manage the child suffering from Protein Energy Malnutrition (PEM)? 2+6=8
5. Write short notes on:
 - a. Pasteurization 4x2=8
 - b. Calcium
 - c. Food safety
 - d. National Nutritional Programs

2080/10

Exam Roll #

Bachelor Level /B.Sc. Nursing/1st Year/TU/IOM
Nutrition and Diet Therapy- VIII Th.

Time: 1½ hour
Full Marks: 40

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.
Attempt all questions.

1. Define and classify minerals. State the functions of minerals. Explain in brief the conditions that result from minerals deficiency. 2+2+6=10
2. A patient with Type II Diabetes with Hypertension under insulin therapy, with height 160cm and weight of 70kg was referred for nutrition consultation. As a nutritional specialist, calculate the BMI, ideal body weight and plan a diet on the basis of disease condition. 10
3. Define meal planning. Explain in brief the factors to be considered in meal planning. 2+8=10
4. Write short notes on:
 - a. Nutritional requirement during pregnancy and lactation 2.5+2.5=5
 - b. Food hygiene and effects of food contamination on health 2+3=5

2080/04

Exam Roll#.....

Bachelor Level/ BNS / 1st Year / TU/IOM
Nursing Concepts & Principles- IV Th.

Time: 3 hours
Full Marks: 80

Candidates are required to give their answers in their own words
as far as practicable.

The figures in the margin indicate full marks.
Attempt all the questions.

1. Describe about the process of patient centered communication skill. 10
2. What is pain? How do you assess a young female patient who is complaining acute abdominal pain? 3+7=10
3. What is ICN code of ethics? Describe nursing responsibilities that prevent malpractice. 6+4=10
4. Explain the Neuman's system model and its application in nursing. 6+4=10
5. Identify the problems and barriers to the development of nursing profession in Nepal. 10
6. Define stress? Explain nursing responsibilities in stress management of the newly admitted patient. 2+8=10
7. Write short notes on: 4x5=20
 - a. Mind body interaction
 - b. Ecotoxicology
 - c. Nepal Nursing Council (NNC)
 - d. Skill needed in nursing process

2082/09

Exam Roll No.

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Bachelor Level /B.Sc. Nursing (1st Year. TU/IOM
Nutrition and Diet Therapy- BSN 8 Th.

Time: 1½ hour
Full Marks: 40

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Attempt all questions.

1. What do you mean by Nutrients? Describe the functions of carbohydrate and protein in the body. Write down the differences between fat soluble and water-soluble vitamins.
3+3+4=10
2. Define malnutrition. Write down the causes, sign and symptoms and preventive measures of any two micronutrient deficiency diseases that are prevalent in Nepal.
2+4+4=10
3. Define food group. Why do we need to plan meal? What are the factors that should be considered while planning meals?
2+2+6=10
4. Write short notes on:
a. Balanced diet
b. Hypertensive diet
c. Marasmus
d. Essential Amino acid and Non-essential Amino acid
4x2.5=10

2081/10

Exam Roll #

Bachelor Level /B.Sc. Nursing (1st Year. TU/IOM
Nutrition and Diet Therapy- VIII Th.

Time: 1½ hour
Full Marks: 40

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.
Attempt all questions.

1. Define food preservation. Explain any four methods of food preservation. 2+8=10
2. What is nutritional assessment? Enlist the methods of nutritional assessment. Describe any three methods of nutritional assessment. 2+3+5=10
3. Define therapeutic diet. Describe the dietary modification in any two disease condition. 2+4+4=10
4. Write short notes on:
 - a. Food contamination 4x2.5=10
 - b. Scurvy
 - c. Vitamin A deficiency
 - d. Food fortification & enrichment

2081/10

Exam Roll #

Bachelor Level /B.Sc. Nursing (1st Year. TU/ IOM
Nutrition and Diet Therapy- VIII Th.

Time: 1½ hour
Full Marks: 40

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Attempt all questions.

1. Define food preservation. Explain any four methods of food preservation. 2+8=10
2. What is nutritional assessment? Enlist the methods of nutritional assessment. Describe any three methods of nutritional assessment. 2+3+5=10
3. Define therapeutic diet. Describe the dietary modification in any two disease condition. 2+4+4=10
4. Write short notes on:
 - a. Food contamination 4x2.5=10
 - b. Scurvy
 - c. Vitamin A deficiency
 - d. Food fortification & enrichment

2081/01

Exam Roll #

**Bachelor Level /B.Sc. Nursing (1st Year. TU/ IOM
Nutrition and Diet Therapy- VIII Th.**

**Time: 1½ hour
Full Marks: 40**

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Attempt all questions.

1. Describe the relationships between nutrition and health. How do you classify five food groups explain it with examples? 2+6=8
2. Define therapeutic diet. Describe the different types of diets given to patients in TUTH. Explain the purpose and indication of any one of this. 2+4+2=8
3. What are essential amino acids? Describe the functions of proteins. List the dietary sources and daily requirements of protein for different age groups. 2+2+2+2=8
4. How will you assess the nutritional status of under five children? How can you manage the child suffering from Protein Energy Malnutrition (PEM)? 2+6=8
5. Write short notes on:
 - a. Pasteurization 4x2=8
 - b. Calcium
 - c. Food safety
 - d. National Nutritional Programs

2080/10

Exam Roll #

Bachelor Level /B.Sc. Nursing/1st Year/TU/IOM
Nutrition and Diet Therapy- VIII Th.

Time: 1½ hour
Full Marks: 40

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.
Attempt all questions.

- ① Define and classify minerals. State the functions of minerals. Explain in brief the conditions that result from minerals deficiency. 2+2+6=10
2. A patient with Type II Diabetes with Hypertension under insulin therapy, with height 160cm and weight of 70kg was referred for nutrition consultation. As a nutritional specialist, calculate the BMI, ideal body weight and plan a diet on the basis of disease condition. 10
3. Define meal planning. Explain in brief the factors to be considered in meal planning. 2+8=10
4. Write short notes on:
 - a. Nutritional requirement during pregnancy and lactation 2.5+2.5=5
 - b. Food hygiene and effects of food contamination on health 2+3=5

2080/04

Exam Roll #

Bachelor Level /B.Sc. Nursing (1st Year) TU/ IOM Time: 1½ hour

Nutrition and Diet Therapy- VIII Th.

Full Marks: 40

Candidates are required to give their answers as far as practicable.

The figures in the margin indicate full marks.

Attempt all questions.

1. Attempt all questions:
 - a. Explain the nutritional importance of carbohydrate. 3
 - b. Describe the importance of fats. 2
 - c. Explain the methods of storage of fats. 2
 - d. Describe the preservation of protein in foods. 2
2. Describe the diet planning for diabetes mellitus patients. 3
3. Explain the differences among food, nutrition and Diet. 5
4. a. What do you understand by balance diet and mention its component? 5
- b. Explain the meal planning and mention its during meal planning. 5
5. Describe the special nutritional requirement during pregnancy. 5
6. Describe the different method of growth monitoring. 5

5

2079/07

Exam Roll #

Bachelor Level /B.Sc. Nursing/1st Year/TU/IOM Time: 1½ hour
Nutrition and Diet Therapy- VIII Th. Full Marks: 40

Candidates are required to give their answers in their own words
as far as practicable.

The figures in the margin indicate full marks.
Attempt all questions.

- ① Define and classify vitamins. State the functions of vitamins.
Explain in brief the conditions that result from vitamins deficiency. 2+2+6=10
2. Discuss in brief about the nutritional status of under five children. Explain about the nutritional requirements of infants. 5+5=10
- ③ What do you mean by special diet? List out various type of special diets and explain their role in health promotion and maintenance. 2+2+6=10
2x5=10
4. Write short notes on:
 - a. Protein-energy malnutrition
 - b. Food fortification

Exam Roll # _____

2075/01

Time: 1½ hours
Full Marks: 40Bachelor Level/ B.Sc. Nursing/1st Year / IOM
Nutrition and Diet Therapy Th. VIII

Candidates are required to give their answers in their own words as far as Practicable.

The figures in the margin indicate full marks.
Attempt all the Questions.

1. a) What is meal planning. 2
b) Discuss the factors you would consider while planning a meal. 4
c) Briefly describe the effect of maternal undernutrition on lactation and quality of life. 4
2. Elaborate on the preventive measures in Nepal to combat: 2+2=4
a) Vitamin A deficiency
b. Iron deficiency anemia
3. a) What is balanced diet? 2
b) List the function of (minerals) calcium. 4
c) Plan a balanced diet for an adolescent girl. 4
4. Write short note (any three): 2x3=6
a. Height for Age
b. Food fortification
c) Vitamin C deficiency
d. Preservation of nutritive value in food
5. a) What are the functions of carbohydrate. 3
b) State the importance of water in the body. 3
c) What is lypo -kalemia? 3
d) List the food sources containing high protein. 2

MAHARAJGIRI
INSTITUTE OF MEDICINE

2071/2

Bachelor Level /B.Sc. Nursing (FIRST YEAR)TU, IOM
Nutrition and Diet Therapy VIII

Time: 1½ hour
Full Marks: 40

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.
Attempt all questions.

- ① Describe the relationship between nutrition and health. Explain the food groups with examples. 4+6=10
- ② State the sources of Vitamin A. Explain the conditions that result from the deficiency of Vitamin A. 4+6=10
3. What is balanced diet? Explain the factors to be considered in planning meal for a family. 4+6=10
4. Write short notes on any two:
a) Fat free diet and its role in health 2+8=10
b) Pasteurization of milk 5x2=10
c) Nutritional assessment of under 3 year children



2075/09

Exam Roll #

212

Bachelor Level / B.Sc. Nursing (1st Year) TU, IOM
Nutrition and Diet Therapy. VIII Th.

Time: 1½ hour
Full Marks: 40

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.
Attempt all questions.

Classify food and nutrition from different aspects. Explain the nutritional assessment of under 3 year children.

5+5=10

What are the major nutritional problems in Nepal? Explain the plans and policies of Nepal Government of minimize such problems.

3+7=10

Explain the role of diet therapy in Hospital. How do you classify therapeutic diet and suggest a diabetic diet to control blood sugar without drug therapy.

4+3+3=10

Write short notes on (any two):

- a) Food and nutrient preservation
- b) Food fortification
- c) Meal planning

2x5=10

2078/04

Exam Roll #

Scholar Level / B.Sc. Nursing (1st Year) TU / IOM Time: 1½ hour
Nutrition and Diet Therapy- VIII Th. Full Marks: 40

Candidates are required to give their answers in their own words
as far as practicable.

The figures in the margin indicate full marks.
Attempt all questions.

What is nutrition? List out the macro and micro nutrients.
Describe the relationship between nutrition and health.

What is meal planning? Describe the factors to be considered in
meal planning. 2+3+5=10

What is a balance Diet? Plan a balance diet for a 50 year old age
female. 2+8=10

Write short notes on:

- Preservation of nutritive value in food 3+7=10
- National nutrition programme 2x5=10

2082/09

Exam Roll No.

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**Bachelor Level /B.Sc. Nursing (1st Year. TU/IOM
Fundamentals of Nursing- BSN 4 Th.**

Time: 3 hours

Full Marks: 80

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Attempt all the questions.

1. Define the following terms: 4×2.5=10
 - a. Dressing
 - b. Catheterization
 - c. Stress and coping
 - d. Sterilization

2. List the purposes of the following: 4×2.5=10
 - a. Cold application
 - b. Bedmaking
 - c. Nail care
 - d. Enema

3. Define vital signs. Describe the abnormalities of blood pressure. Explain the process of measuring blood pressure. 2+2+6=10

4. Define nursing process. List the benefits of nursing process. Explain the steps of nursing process. 2+3+5=10

5. Define body mechanics. Explain about the effects of immobility on different body system. 2+8=10

6. Describe the rights and checks in drug administration. Explain the procedure of administering insulin through insulin syringe. 5+5=10

7. Write short notes on: 4×5=20
 - a. First aid management of epistaxis
 - b. Discharge procedure
 - c. Dead body care
 - d. Preoperative care

2081/01

Bachelor Level /B.Sc. Nursing (1st Year. TU/IOM
Fundamentals of Nursing- IV Th.

Exam Roll#.....

Time: 3 hours
Full Marks: 80

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.
Attempt all the questions.

1. Define the following terms: 4x2.5=10
 - a. Nursing
 - b. Dressing
 - c. Pre-operative care
 - d. Catheterization
2. Write any two purposes of following procedures. 4x2.5=10
 - a. Oral care
 - b. Cold applications
 - c. Bed making
 - d. Care of dead body
3. State the factors affecting blood pressure. Explain the importance of reporting and recording of vital signs. 5+5=10
4. Enlist the common devices to support and protect a client with impaired mobility. Discuss the role of nurse while transferring a client from bed to chair and vice versa. 3+7=10
5. Define sterilization. Describe various methods of sterilization. 2+8=10
6. List various routes of drug administration. Explain the basic right of medications. 2+8=10
7. Write short notes on: 4x5=20
 - a. Prevention of pressure sore
 - b. Effect of stress on health
 - c. Client's right
 - d. Discharge from the hospital

2081/10

Exam Roll#.....

Bachelor Level /B.Sc. Nursing (1st Year. TU/IOM
Fundamentals of Nursing- IV Th.

Time: 3 hours
Full Marks: 80

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Attempt all the questions.

1. Define the following terms: 4×2.5=10
 - a. Nursing
 - b. Enema
 - c. Stress
 - d. Nosocomial Infection

2. List the purposes of the following: 4×2.5=10
 - a. Cold application
 - b. Dressing
 - c. Oral care
 - d. Dead body care

3. Define vital signs. List the importance of monitoring vital signs.
Explain the factors affecting blood pressure. 2+2+6=10

4. Explain the steps of nursing process. Construct a care plan of a 60 years old unconscious male patient. 5+5=10

5. Define exercise. Explain about the physiological effects of exercise on different body system. 2+8=10

6. Define drug. List the different routes of drug administration. Explain the procedure of drawing medicine from the ampule. 2+3+5=10

7. Write short notes on: 4×5=20
 - a. First aid management of choking
 - b. Admission
 - c. Maslow's hierarchy of basic need
 - d. Preoperative care

2080/10

Exam Roll#.....

Bachelor Level /B.Sc. Nursing/1st Year/TU/IOM
Fundamentals of Nursing- IV Th.

Time: 3 hours
Full Marks: 80

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.
Attempt all the questions.

1. Define the following 4x2=8
 - a. Nurse
 - b. Hospital
 - c. Postural Drainage
 - d. Basic need
2. State the purposes of following 4x3=12
 - a. Oral care
 - b. Catheterization
 - c. Bandaging
 - d. Cold application
3. Define back care. List the articles required and explain the procedure of back care. 2+3+5=10
4. Define nursing process. Explain the steps of nursing process. 2+8=10
5. Define vital signs. Explain the factors affecting temperature. Discuss the management of fever. 2+3+5=10
6. Define drug. List the different routes of drug administration. Explain the role and responsibilities of nurses while administering drug through oral route. 2+3+5=10
7. Write short notes on: 4x5=20
 - a. Bed Making
 - b. First aid management of burn
 - c. Pre-operative care
 - d. Methods of sterilization

2081/01

Exam Roll#.....

**Bachelor Level /B.Sc. Nursing (1st Year. TU/IOM
Fundamentals of Nursing- IV Th.**

**Time: 3 hours
Full Marks: 80**

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Attempt all the questions.

1. Define the following terms: 4x2.5=10
 - a. Nursing
 - b. Dressing
 - c. Pre-operative care
 - d. Catheterization
2. Write any two purposes of following procedures. 4x2.5=10
 - a. Oral care
 - b. Cold applications
 - c. Bed making
 - d. Care of dead body
3. State the factors affecting blood pressure. Explain the importance of reporting and recording of vital signs. 5+5=10
4. Enlist the common devices to support and protect a client with impaired mobility. Discuss the role of nurse while transferring a client from bed to chair and vice versa. 3+7=10
5. Define sterilization. Describe various methods of sterilization. 2+8=10
6. List various routes of drug administration. Explain the basic right of medications. 2+8=10
7. Write short notes on: 4x5=20
 - a. Prevention of pressure sore
 - b. Effect of stress on health
 - c. Client's right
 - d. Discharge from the hospital

2080/04

Exam Roll#.....

**Bachelor Level /B.Sc. Nursing (1st Year) TU/IOM
Fundamentals of Nursing- IV Th.**

Time: 3 hours

Full Marks: 80

**Candidates are required to give their answers in their own words
as far as practicable.**

The figures in the margin indicate full marks.

Attempt all the questions.

1. Define followings: 4x2.5=10
 - a. Supine position
 - b. Stress
 - c. Nosocomial infection
 - d. Nursing
2. Write purposes of followings: 4x2.5=10
 - a. Dressing
 - b. Hot application
 - c. Nasogastric tube feeding
 - d. Hair wash
3. List the various sites of taking pulse. Describe the factors affecting pulse. 3+7=10
4. Define nursing process. List the steps of nursing process. Describe various methods of data collection during assessment. 2+2+6=10
5. State the principles of body mechanics. Discuss the role of nurse while ambulating the client. 4+6=10
6. Define catheterization. List various types of catheter. Mention the measures that you use to prevent ascending infection. 2+2+6=10
7. Write short notes on: 4x5=20
 - a. Post-operative care
 - b. Prevention of bed sore
 - c. Principle of first aid and qualities of first aider
 - d. Enema

2079/07

Exam Roll#.....

**Bachelor Level /B.Sc. Nursing/ 1st Year/TU/IOM
Fundamentals of Nursing- IV Th.**

**Time: 3 hours
Full Marks: 80**

**Candidates are required to give their answers in their own words
as far as practicable.**

The figures in the margin indicate full marks.

Attempt all the questions.

1. Define followings: 4x2.5=10
 - a. Fowler's position
 - b. Range of motion exercise
 - c. Sterilization
 - d. Hospital
2. List the purposes of followings: 4x2.5=10
 - a. Bed making
 - b. Cold application
 - c. Oral care
 - d. Bandaging
3. Define vitals signs. Enlist the common vital signs that we assess.
Explain the factors that affect blood pressure in an individual. 2+2+6=10
4. Enlist the common devices to support and protect a client with
impaired mobility. Discuss the role of nurse while transferring a
client from bed to chair and vice versa. 3+7=10
5. Enlist the pressure prone areas in client having major abdominal
surgery. Discuss the factors predisposing pressure sore and its
prevention. 2+3+5=10
6. Define drug administration. Explain the basic rights of drug
administration. 2+8=10
4x5=20
7. Write short notes on:
 - a. Admission procedure
 - b. Post-operative care
 - c. Foreign body in ear
 - d. Infection cycle

2074/7

Exam Roll #

Bachelor Level /B.Sc. Nursing (FIRST YEAR) TU/IOM
Fundamentals of Nursing IV

Time: 3 hours

Full Marks: 80

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Attempt all the questions.

1. Define the following terms: 2x5=10
 - a) Catheterization
 - b) Nursing
 - c) Body mechanics
 - d) Infection
 - e) Bandaging
2. What are the possible sources of stress among the hospitalized patients? What measures are helpful to reduce stress among them? 4+6=10
3. Define nasogastric tube feeding. Discuss the roles of nurses in meeting the patient's nutritional needs. 2+8=10
4. State the purpose of catheterization. What precautions a nurse should take in preventing ascending infection. 4+6=10
5. Define medical asepsis. Discuss the roles of nurse in preventing the infection in a surgery ward. 2+8=10
6. State the principles of first aid. Discuss the qualities of a good first aider. What are the steps to be followed in the first aid treatment of dog bites victim? 2+3+5=10
5x4=20
7. Write short notes on (any four):
 - a) ICN code of ethics
 - b) Sitz bath
 - c) Preoperative care
 - d) Hospital waste management
 - e) Dead body care



Bachelor Level /B.Sc. Nursing/Second Year/TU, IOM

Bachelor Level/ B.Sc. Nursing/1st Year / IOM
Fundamental of Nursing Th. IV

2075/01

Exam Roll #

Time: 3 hours
Full Marks: 80

Candidates are required to give their answers in their own words as far as Practicable.

The figures in the margin indicate full marks.
Attempt all the Questions.

1. Define the following terms. 2x5=10
 - a. Nursing
 - b. Decontamination
 - c. Pre-operative care
 - d. Sitz bath
 - e. Hospital
2. Write any two purposes of following procedures. 2x5=10
 - a. Oral care
 - b. Cold applications
 - c. Bed making
 - d. Care of dead body
 - e. Enema
3. State the differences between nursing diagnosis and medical diagnosis. Describe nursing process. 5+5=10
4. State the purpose of catheterization. What precautions a nurse should take in preventing as ascending infection. 4+6=10
5. Define sterilization. Describe various methods of sterilization. 2+8=10
6. List various routes of drug administration. Explain the basic right of medications. 2+8=10
7. Write short notes on (any four): 5x4=20
 - a. Prevention of pressure sore
 - b. Ultrasonography
 - c. Effect of stress on health
 - d. Client's right
 - e. Hospital waste management



MAHARAJGUNJ NURSING CAMPUS

2072/12

Bachelor Level /B.Sc. Nursing (FIRST YEAR) TU/IOM Time: 3 hours
Fundamentals of Nursing IV Full Marks: 80

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.
Attempt all the questions.

1. Define the following: 2x5=10
 - a) Nursing
 - b) Postural drainage
 - c) Foot board
 - d) Decontamination
 - e) Endoscopy
2. Define nursing process and briefly explain the steps of nursing process. 2+8=10
3. Write two principles of each of the following: 2.5x4=10
 - a) Dressing
 - b) Bed making
 - c) First Aid
 - d) Hot application
4. What is the meaning of standard precaution? Describe the ways of preventing infection in hospital. 2+8=10
5. Describe the procedure of catheterization of a bed-ridden female patient. Explain the precautions to be taken to prevent ascending infection in a patient having retention catheter. 6+4=10
6. State the principles of first-aid. Describe the first-aid treatment of a patient on shock. 4+6=10
5x4=20
7. Write short notes on (any four):
 - a) ICN code of ethics
 - b) Dressing
 - c) Body mechanics
 - d) Nasogastric tube feeding
 - e) Post operative care

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2078/04

Bachelor Level / B.Sc. Nursing (1st Year) TU/IOM
Fundamentals of Nursing- IV Th

Exam Roll#.....
Time: 3 hours
Full Marks: 80
own words

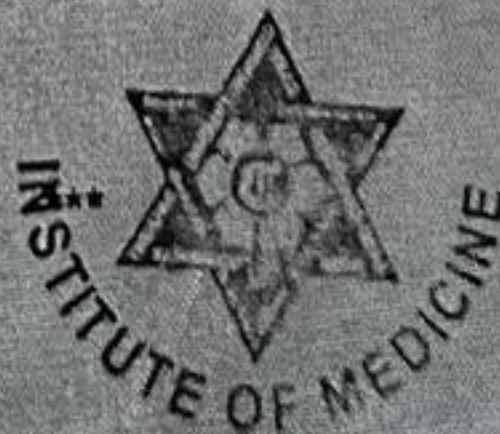
2075/09

Bachelor Level / B.Sc. Nursing (1st Year) TU/IOM
Fundamentals of Nursing- IV Th.

Exam Roll#.....
Time: 3 hours
Full Marks: 80

Candidates are required to give their answers in their own words
as far as practicable.
The figures in the margin indicate full marks.
Attempt all the questions.

1. Define the following terms: 5x2=10
 - a. Nurse
 - b. Hospital
 - c. Admission
 - d. Drug
 - e. Postural drainage
2. List any two purposes of following: 5x2=10
 - a. Oral care
 - b. Dressing
 - c. Cold application
 - d. Physical examination
 - e. NG tube insertion
3. Define pressure sore. Discuss the preventive measures for pressure sore. 2+8=10
4. Define stress. What are the measures to reduce stress in hospitalized patient? 2+8=10
5. Define nursing process. Explain the steps of nursing process in brief. 2+8=10
6. Define respiration and its abnormal types. Discuss factors which affect respiration. 2+3+5=10
7. Write short notes on (any four): 5x4=20
 - a. Pre-operative care
 - b. Exercise
 - c. Catheterization
 - d. First aid management of frostbite
 - e. Bandaging



MAHARAJGUNJ NURSING CAMPUS
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