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**GANDHI INSTITUTE OF ENGINEERING AND TECHNOLOGY UNIVERSITY, ODISHA, GUNUPUR
(GIET UNIVERSITY)**



B.Sc. Nursing (Fourth Semester) Regular Examinations, January – 2025
**PHAR II(205) & PATH II(210) – PHARMACOLOGY,
PATHOLOGY & GENETICS**

Time: 3 hrs

Maximum: 75 Marks

The figures in the right hand margin indicate marks.

Section - A: Pharmacology (38 Marks)

PART – A: (Multiple Choice Questions)

(7 x 1=7 Marks)

Q. 1 Answer ALL questions

- a. Which of the following is an anti histamine drug?

(i) Loratadine	(ii) Misoprostol
(iii) Diphenhydramine	(iv) Metoprolol
- b. Which of the following routes of drug administration ensures the fastest absorption?

(i) Oral	(ii) Intramuscular
(iii) Intravenous	(iv) Subcutaneous
- c. Which term describes the study of drug movement through the body?

(i) Pharmacokinetics	(ii) Pharmacodynamics
(iii) Pharmacogenetics	(iv) Pharmacovigilance
- d. Which drug is used to treat tuberculosis?

(i) Rifampicin	(ii) Acyclovir
(iii) Fluconazole	(iv) Metronidazole
- e. Which of the following is a loop diuretic?

(i) Furosemide	(ii) Hydrochlorothiazide
(iii) Spironolactone	(iv) Acetazolamide
- f. Which vitamin is essential for blood clotting?

(i) Vitamin A	(ii) Vitamin C
(iii) Vitamin k	(iv) Vitamin D
- g. Which drug is used in malaria treatment?

(i) Chloroquine	(ii) Paracetamol
(iii) Ciprofloxacin	(iv) Ibuprofen

PART – B: (Very Short Answer Questions) (3 x 2=6 Marks)

Q.2. Answer ANY THREE questions

- a. Magnesium sulphate
- b. Activated charcoal
- c. Corticosteroids
- d. Beta blockers

PART – C: (Short Answer Questions) (3 x 5= 15 Marks)

Q.3. Answer ANY THREE questions

- a. Difference between Pharmacodynamics and Pharmacokinetics
- b. Diuretics
- c. Anti convulsants
- d. Principle of Prescribing

PART – D: (Long Answer Questions)

(10 x 1= 10 Marks)

Answer ANY ONE question

Marks

- 4.a. List out the drugs that are toxic to kidney and for the treatment of UTIs. **3**
- b. Describe the classification, mechanism of action, indications, contraindications and nurse's role of analgesics and anaesthetics drugs. **7**
- (OR)**
- c. List out the Antiseptic drugs and Anti anginal drugs. **3**
- d. Describe the classification, mechanism of action, indications, contraindications and nurse's role of Antihypertensive drugs. **7**

Section - B : PATHOLOGY (25 Marks)

PART – A: (Multiple Choice Questions)

(4 x 1 = 4 Marks)

Q. 5 Answer ALL questions

- a. Which organ is affected in hepatitis?
- (i)Heart (ii)Brain
(iii)Liver (iv)Lungs
- b. Which condition is also known as "water in the brain"?
- (i) Hydrocephalus (ii) Meningitis
(iii) Encephalitis (iv) Stroke
- c. Which clotting factor is also called fibrinogen?
- (i)factor I (ii) Factor V
(iii)Factor VIII (iv)Factor X
- d. What is the name of the test used to diagnose tuberculosis?
- (i) Mantoux test (ii) Widal test
(iii) ELISA test (iv) Coombs test

PART – F: (Very Short Answer Questions)

(3 x 2 =6 Marks)

Q.6. Answer ANY THREE questions

- a. Renal calculi
- b. Difference between Wet gangrene and Dry Gangrene
- c. Goitre
- d. Uterine Fibroids

PART – G: (Short Answer Questions)

(3 x 5 =15 Marks)

Q.7. Answer ANY THREE question.

- a. Short note on wound healing
- b. Write on Rheumatic disease
- c. Explain Meningitis
- d. Explain Carcinoma of cervix

Section - C : GENETICS (12 Marks)

PART – H: (Multiple Choice Questions)

(3 x 1 = 3 Marks)

Q. 8 Answer ALL questions

- a. What is the basic unit of heredity ?
- | | |
|----------|-----------------|
| (i)DNA | (ii)Genes |
| (iii)RNA | (iv)Chromosomes |
- b. How many pairs of chromosomes are present in a normal human cell?
- | | |
|---------|--------|
| (i)20 | (ii)23 |
| (iii)22 | (iv)24 |
- c. Which base is not present in RNA?
- | | |
|----------------|--------------|
| (i) Adenine | (ii) Thymine |
| (iii) Cytosine | (iv) Guanine |

PART – I: (Very Short Answer Questions)

(2 x 2 = 4 Marks)

Q.9. Answer ANY TWO questions

- Difference between mitosis and meiosis
- Genetic testing
- Gene therapy

PART – J: (Short Answer Questions)

(1 x 5 = 5 Marks)

Q.10. Answer ANY ONE question.

- Describe in details the chromosomal aberrations and role of nurses in genetic testing.
- Huntington's Disease

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