

## GANDHI INSTITUTE OF ENGINEERING AND TECHNOLOGY UNIVERSITY, **GUNUPUR, ODISHA**

# B. Sc. Nursing Fourth Semester Regular/Supplementary Examinations, July' 2025 PHAR II(205)&PATH(210)-PHARMACOLOGY

# **PATHOLOGY& GENETICS**

Maximum: 75	5
J	Maximum: 7:

Marks				
The figures in the right hand margin indicate marks.				
Section - A: <pharmacology-ii> (38 Marks)</pharmacology-ii>				
<b>PART – A:</b> (Multiple Choice Questions)	$(7 \times 1 = 7 \text{ Marks})$			
Q. 1 Answer ALL questions				
a. What is the primary mechanism of action of be	ta-lactam antibiotics?			
(i) Inhibiting protein synthesis	(ii) Interfering with cell wall synthesis			
(iii) Disrupting cell membrane function	(iv) Inhibiting DNA replication			
b. Which of the following drugs is used to treat rh	neumatoid arthritis?			
(i) Methotrexate	(ii) Cyclosporine			
(iii)Both A and B	(iv)None of the above			
c. What is the mechanism of action of antihypertensive drugs?				
(i) Increasing cardiac output	(ii) Increasing cardiac output			
(iii) Decreasing peripheral resistance	(iv) Decreasing peripheral resistance			
d. Which of the following is an example of an ant	i-anginal drug?			
(i) Nitro-glycerine	(ii) Beta blockers			
(iii) Both A and B	(iv) None of the above			
e. Which of the following drugs is used to treat b	ronchospasm?			
(i) Salbutamol	(ii) Salmeterol			
(iii) Both A and B	(iv)None of the above			
f. What is the primary use of corticosteroids?				
(i) To treat inflammation	(ii) To treat infections			
(iii) To treat allergies	(iv) None of the above			
g. Which of the following is an example of an antiplatelet drug?				
(i) Aspirin	(ii) Clopidogrel			
(iii) Both A and B	(iv) None of the above			
PART – B: (Very Short Answer Questions)	$(3 \times 2 = 6 \text{ Marks})$			
Q.2. Answer ANY THREE questions				
a. What are the primary uses of diuretics?				
b. Beta blockers.				
c. What is an Antidotes?				
d. Define estrogens and progestogen.				
PART – C: (Short Answer Questions) Q.3. Answer ANY THREE questions	$(3 \times 5 = 15 \text{ Marks})$			

- a. What are uses of corticosteroids?
- b. What is the difference between bronchodilator and bronchial dilator?
- c. Short note on antiseptics and disinfectants.

d. Explain the difference between first-generation and second-generation antihistamines.			
PAR	Γ – D: (Long Answer Questions)	$(10 \times 1 = 10 \text{ Marks})$	
Ansv	ver ALL questions	Marks	
4. <i>a</i> .	What is infertility?	2	
b.	Write in detail about the drugs used for infertility.	8	
	(OR)		
<i>c</i> .	List out the anticonvulsant drugs.	2	
d.	Describe the mechanism of action, indications, contraindications and nurse's role anticonvulsant drugs	e of 8	

#### **Section - B : <PATHOLOGY-ii> (25 Marks)**

#### **PART – A: (Multiple Choice Questions)**

 $(4 \times 1 = 4 \text{ Marks})$ 

Q. 5 Answer ALL questions

a. What is the primary pathophysiological mechanism in asthma?

(i)Inflammation and hyperresponsiveness of airway (ii)Increased mucous secretion

(iii)Alveolar destruction (iv)Pulmonary edema

b. Which of the following conditions is associated with the formation of renal calculi?

(i)Hyperparathyroidism (ii)Hypoparathyroidism

(iii)Hyperthyroidism (iv)Hypothyroidism

c. Which type of cancer is most commonly associated with hepatitis B and C infections?

(iii)Gastric cancer (iv)Pancreatic cancer

d. Which is the primary cause of cervical cancer?

(i)Human papilloma virus (ii)Herpes Simplex virus

(iii)Human immunodeficiency virus (iv)Hepatitis B virus

#### **PART – F: (Very Short Answer Questions)**

(i)Hepatocellular carcinoma

 $(3 \times 2 = 6 \text{ Marks})$ 

(ii)Cholangiocarcinoma

Q.6. Answer ANY THREE questions

a. Define thrombosis and embolism.

b. What are the major risk factors for gastric cancer.

c. Difference between Wet gangrene and Dry gangrene.

d. Define uterine fibroid.

#### **PART – G: (Short Answer Questions)**

 $(3 \times 5 = 15 \text{ Marks})$ 

Q.7. Answer ANY THREE question.

a. Describe the etiology, clinical features and management of glomerulonephritis.

b. Explain in detail about tumor of CNS

c. Describe etiology, clinical features and management of Cholecystitis.

d. Explain in detail about prostate cancer

#### **Section - C : <GENETICS> (12 Marks)**

### **PART – H: (Multiple Choice Questions)**

 $(3 \times 1 = 3 \text{ Marks})$ 

### Q. 8 Answer **ALL** questions

a. Which base is not present in RNA?

(i)Adenine (ii)Thymine

(iii)Cytosine (iv)Guanine

b. The tendency of an offspring to resemble its parent is known as: (i)Variation (ii)Heredity

(iii)Resemblance (iv)Inheritance

c. The crossing of F1 to either of the parents is known as:

(i)Test cross (ii)Back cross

(iii)F1 cross (iv)All of the above

#### **PART – I:** (Very Short Answer Questions)

 $(2 \times 2 = 4 \text{ Marks})$ 

#### Q.9. Answer ANY TWO questions

a. Define proto-oncogene and oncogene.

b. What is amniocentesis?

c. Explain sex-linked inheritance?

#### **PART – J: (Short Answer Questions)**

 $(1 \times 5 = 5 \text{ Marks})$ 

#### Q.10. Answer ANY ONE question.

a. Define Neural tube defect? Explain the different types of Neural tube defect?

b. Briefly explain Mendelian Theory of Inheritance and its principles by taking an example of monohybrid and dihybrid cross pollination?