

**BACHELOR OF PHYSIOTHERAPY  
THIRD SEMESTER  
PHARMACOLOGY  
BPT-305(REPEAT)**  
[USE OMR SHEET FOR OBJECTIVE PART]

**SET  
A**

Duration: 3 hrs.

Full Marks: 70

**( Objective )**

Time: 30 mins.

Marks: 20

1 × 20 = 20

*Choose the correct answer from the following:*

- The action of the body on the drug is known as .....?  
a. Pharmacokinetic  
b. Pharmacology  
c. Pharmacodynamic  
d. Pharmacotherapeutics
- Adrenaline and non adrenaline are hormones and act as .....  
a. Neurotransmitters  
b. Energy storing substance  
c. Food storage material  
d. Energy producing agents
- ADH acts on .....  
a. Loop of Henle  
b. Collecting ducts of testes  
c. Collecting tubules of kidneys  
d. PCT
- In muscle contraction, this ion is essential  
a. Cl  
b. Ca  
c. K  
d. Na
- The word "chronic" in "chronic cough" means:  
a. Curable  
b. Long-term  
c. Controllable  
d. Underlying Conditions
- Which sports are best for children with asthma?  
a. Baseball  
b. Swimming  
c. Sprinting  
d. All of the above
- Which cardiac arrhythmia will occur due to damage to the atrioventricular (AV) node?  
a. Atrial fibrillation (AF)  
b. Ventricular tachycardia (VT)  
c. Complete Heart Block (CHB)  
d. None of the above
- What is the most common symptom of high blood pressure?  
a. High body temperature  
b. Fatigue  
c. It has no symptoms that you notice  
d. Racing heartbeat
- The heart fails to pump blood out:  
a. Hypovolemic shock  
b. Cardiogenic shock  
c. Distributive shock  
d. Obstructive shock
- Which one of the following diuretics is effective in severe renal failure?  
a. Loop diuretics  
b. K<sup>+</sup> sparing diuretics  
c. Thiazides  
d. Carbonic anhydrase inhibitors



11. The four small glands in the thyroid gland are known as:
  - a. Adrenal gland
  - b. Pineal gland
  - c. Parathyroid gland
  - d. Endocrine and exocrine gland
12. Diabetes insipidus is due to insufficient release of \_\_\_\_\_
  - a. Insulin
  - b. ADH
  - c. Thyroxine
  - d. Glucagon
13. Antibodies are secreted by
  - a. adipose cells
  - b. reticular cells
  - c. plasma cells
  - d. mast cells
14. The accumulation of this substance in the body causes gout.
  - a. Blood plasma
  - b. RBC
  - c. Synovial fluid
  - d. Uric acid
15. Which of the following vitamin helps in blood clotting?
  - a. Vitamin A
  - b. Vitamin C
  - c. Vitamin D
  - d. Vitamin K
16. Antioxidants fight against
  - a. Bacteria
  - b. Viruses
  - c. Free radicals
  - d. None of the above
17. Half life ( $t_{1/2}$ ) is the time required to
  - a. Change the amount of a drug in plasma by half during elimination
  - b. Metabolize a half of an introduced drug into the active metabolite
  - c. Absorb a half of an introduced drug
  - d. Bind a half of an introduced drug to plasma proteins
18. What does "affinity" mean?
  - a. A measure of how tightly a drug binds to plasma proteins
  - b. A measure of how tightly a drug binds to a receptor
  - c. A measure of inhibiting potency of a drug
  - d. A measure of bioavailability of a drug
19. One among the following is not an Osmotic diuretic
  - a. Urea nitrate
  - b. Glycerol
  - c. Mannitol
  - d. Isosorbide
20. Which endocrine gland synthesizes and secretes corticosteroids?
  - a. Thyroid
  - b. Adrenal
  - c. Pituitary
  - d. Pancreas

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**( Descriptive )**

Time : 2 hrs. 30 mins.

Marks : 50

[ Answer question no.1 & any four (4) from the rest ]

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|---|--------|
| 1. What is Pharmacodynamics? Explain various route of drug administration.                            | 2+8=10 |
| 2. a. Define diuretics drugs and its classifications.   | 5      |
| b. Explain the mechanism of action of one type of diuretic drug.                                      | 5      |
| 3. a. Explain hypertension and cardiovascular system.   | 5      |
| b. Write briefly about Angina Pectoris and Shock  | 5      |
| 4. a. Explain the process of the formation of thyroid hormone and its functions.                      | 5+5=10 |
| 5. a. Explain chemotherapy with one example of a type of drug and its mechanism of action in details. | 5+5=10 |
| 6. a. Write short note on Anesthetics?  | 4      |
| b. Describe one type of Anesthetic with its advantages and disadvantages.                             | 6      |
| 7. a. Write briefly about inflammatory diseases.  | 4      |
| b. Describe Rheumatoid Arthritis, osteoarthritis and Gout with one example of drug for each.          | 6      |
| 8. a. Explain respiratory system.   | 4      |
| b. Describe COPD with its management ?  | 6      |

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