

Write the following information in the first page of Answer Script before starting answer

ODD SEMESTER EXAMINATION: 2020-21

Exam ID Number \_\_\_\_\_

Course \_\_\_\_\_

Semester \_\_\_\_\_

Paper Code \_\_\_\_\_

Paper Title \_\_\_\_\_

Type of Exam: \_\_\_\_\_

(Regular/Back/Improvement)

**Important Instruction for students:**

1. Student should write objective and descriptive answer on plain white paper.
2. Give page number in each page starting from 1<sup>st</sup> page.
3. After completion of examination, Scan all pages, convert into a single PDF, and rename the file with Class Roll No. (2019MBA15) and upload to the Google classroom as attachment.
4. Exam timing from 10am – 1pm (for morning shift).
5. Question Paper will be uploaded before 10 mins from the schedule time.
6. Additional 20 mins time will be given for scanning and uploading the single PDF file.
7. Student will be marked as ABSENT if failed to upload the PDF answer script due to any reason.

**BACHELOR OF PHYSIOTHERAPY  
THIRD SEMESTER (REPEAT)  
PHARMACOLOGY  
BPT-305**

**Duration : 3 hrs.**

**Full Marks : 70**

**Time : 20 min.**

**( PART-A: Objective )**

**Marks : 20**

***Choose the correct answer from the following:***

***1×20=20***

1. Drug efficacy refers to
  - a. The range of diseases in which the drug is beneficial
  - b. The maximum intensity of response that can be produced by the drug
  - c. The dose of the drug needed to produce half maximal effect
  - d. The dose of the drug needed to produce therapeutic effect
2. A sympathetic neurotransmitter in human is
  - a. Acetylcholine
  - b. Ephedrine
  - c. Adrenaline
  - d. Amphetamine
3. Which of the following is a phase II drug metabolizing reaction?
  - a. Acetylation
  - b. Reduction
  - c. Electron coupling
  - d. Oxidation
4. Anesthetic agents can \_\_\_\_\_ cholinergic system.
  - a. Kill
  - b. Inhibit
  - c. Stimulate
  - d. No effect
5. The therapeutic index of a drug is a measure of its:
  - a. Safety
  - b. Potency
  - c. Efficacy
  - d. Dose variability
6. A depolarizing skeletal muscle relaxant is
  - a. Tubocurarine
  - b. Succinylcholine
  - c. Atracurium
  - d. Mivacurium
7. Which of the following NSAIDs is a selective COX-2 inhibitor?
  - a. Indomethacin
  - b. Meloxicam
  - c. Etoricoxib
  - d. Mefenamic acid
8. Wolf chaik off effect is due to the deficiency of
  - a. Sodium
  - b. Calcium
  - c. Iodine
  - d. Potassium
9. Which of the following is a second generation sulfonylurea antidiabetic drug?
  - a. Tolbutamide
  - b. Glibenclamide
  - c. Pioglitazone
  - d. Acarbose

10. Oral hypoglycemic agents which increases endogenous insulin secretion
- a. Sulphonylureas
  - b. Biguanides
  - c. Thiazolidinediones
  - d. Alpha glucosidase inhibitors
11. Adverse effect associated with ACE inhibitors is
- a. Hypokalemia
  - b. Persistent dry cough
  - c. Hyperuricemia
  - d. Hyperglycemia
12. Physiological effects of Glucocorticoids is/are:
- a. Gluconeogenesis
  - b. Glycolysis
  - c. Glycosuria
  - d. All of the above
13. Acetazolamide is an example of:
- a. Osmotic diuretics
  - b. Potassium sparing diuretics
  - c. Carbonic Anhydrase inhibitors
  - d. Loop diuretics
14. Chloroquine which is used an antimalarial is also used in the treatment of:
- a. Diabetes
  - b. Asthma
  - c. Rheumatoid arthritis
  - d. Cardiac arrest
15. Nitroglycerin is an example of:
- a. Potassium channel activators
  - b. Organic nitrates
  - c. Calcium channel blockers
  - d. Beta adrenergic blockers
16. Reye's syndrome in children is an adverse effect which is associated with the use of :
- a. Naproxen
  - b. Indomethacin
  - c. Diclofenac
  - d. Aspirin
17. The site of action of Probenecid used in the treatment of Gout:
- a. Loop of Henle
  - b. Proximal tubule
  - c. Both
  - d. Neither
18. Which of the following selectively inhibits COX-2 enzyme?
- a. Aspirin
  - b. Celecoxib
  - c. Naproxen
  - d. Indomethacin
19. Therapeutic uses of vasopressin is
- a. Diabetes insipidus
  - b. Diabetes mellitus
  - c. Cirrhosis
  - d. Mental depression
20. Hyperuricemia is associated:
- a. Ankylosing spondylitis
  - b. Gout
  - c. Psoriatic arthritis
  - d. Plaque Psoriasis

-- --- --

**( PART-B : Descriptive )**

**Time : 2 Hrs. 40 mins.**

**Marks : 50**

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

1. Classify Cholinergic drugs with examples. Describe pharmacological actions, therapeutic uses and adverse effect of acetylcholine. Mention the therapeutic uses and adverse drug reaction of atropine. 10
2. Define Angina Pectoris and Classify anti anginal drugs. Write the mechanism of action, pharmacological action, therapeutic uses and adverse effects of organic nitrates. 10
3. Define metabolism. Enumerate on the various reaction involved in metabolism. Write a short note on bioavailability. 10
4. What are the various stages of anesthesia? Write a note on Inhalational anaesthetics. 5+5=10
5. a) Describe about the three classes of sodium channel blockers used in the treatment of cardiac arrhythmias. 5+5=10  
b) What is atrial flutter and atrial fibrillation?
6. Define hypertension. Brief on the different types of hypertension. Enumerate anti- hypertensive drugs with examples write the mechanism, adverse effects and uses of any one class of drug. 5+5=10
7. Write a note on loop diuretics. Brief on the mechanism of action, pharmacological actions, adverse drug reaction and therapeutic uses of vasopressin. 5+5=10
8. a) Briefly discuss on any one of the DMARDs used in Rheumatoid Arthritis. 5+5=10  
b) Write a short note on the anti-inflammatory action, adverse drug reactions and therapeutic uses of Glucocorticoids.

= = \*\*\* = =