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Total No. of printed pages = 03

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Hatkhowapara Azara, Gh-17

Winter, 2024

M.Pharm 2nd Semester Examination

ADVANCED PHARMACOLOGY-II

Course Code: MPL201T

Full Marks – 75

Time – 3 hours

*The figure in the margin indicates full marks for the questions.***A. Answer the following questions:****(20 X 1 = 20)**

- Corticoids are derived from.
 - Cholesterol
 - Ergosterol
 - Arachidonic acid
 - None of the Above
- Which of the following is not a type of β -lactam antimicrobial?
 - Penicillin's
 - glycopeptides
 - cephalosporins
 - monobactams
- Which of the following antimicrobials inhibits the activity of DNA gyrase?
 - polymyxin B
 - clindamycin
 - nalidixic acid
 - rifampin
- Which of the following is a nucleoside analog commonly used as a reverse transcriptase inhibitor in the treatment of HIV?
 - Acyclovir
 - ribavirin
 - adenine-arabinoside
 - azidothymidine
- Which of the following combinations would most likely contribute to the development of a superinfection?
 - long-term use of narrow-spectrum antimicrobials
 - long-term use of broad-spectrum antimicrobials
 - short-term use of narrow-spectrum antimicrobials
 - short-term use of broad-spectrum antimicrobials
- Which condition results from over secretion of growth hormone?
 - Hypopituitarism
 - Addison's
 - Acromegaly
 - Diabetes
- This G protein-coupled receptor acts to decrease cAMP concentration intracellularly.
 - Gs protein coupled receptors
 - Gi protein coupled receptors

- c) Gq protein coupled receptors d) Gh protein coupled receptors
8. Which of the following hormones are released from the anterior pituitary?
a) Prolactin b) ADH c) TSH d) Oxytocin
9. This drug inhibits/slows the digestion of sugars in the digestive tract.
a) Biguanides
b) Bile acid sequestrants
c) Alpha glucosidase inhibitor
d) Orlistat
10. Histamine is biosynthesized from _____.
a) Proline b) Valine c) Histidine d) Alanine
11. Clopidogrel used for _____ purpose.
a) Antihistaminic b) Anti-coagulant c) Antiallergic d) Analgesic
12. _____ used as local anesthetic.
a) Acarbose b) Prednisone c) Metformin d) Benzocaine
13. Identify glucosidase inhibitors from the following _____.
a) Pioglitazone b) Nateglinide c) Metformin d) Acarbose
14. Which of the following is a rich source of antioxidants which fight disease?
a) Tea b) Coffee c) Water d) None of the above
15. Which of the following is a naturally occurring antioxidant?
a) Hydroquinone b) Vitamin E c) Ascorbic acid d) All of the above
16. Circadian rhythm is associated with (Most specific)
a) 12 hours' time frame b) 24 Hours' Time frame
c) Both A and B d) None of the above
17. MOA of activated charcoal is
a) Adsorption b) Absorption c) Neutralization d) All of the above
18. Causative organism of Leprosy is _____.
19. Free radicals are generated from _____.
20. Emetics are not to be used in case of
a) Corrosive poisoning b) Non supportive patient
c) Unconscious patient d) All of the above

B. Short answers (Answer any seven in 200 to 250 words)

(7 X 5 = 35)

- a) Discuss the Pharmacology of Asthma.
- b) What is Diabetes Mellitus? Discuss the classification of oral hypoglycaemics agents.
- c) Write down the Mechanism of action of β Lactam Antibiotics and with special reference to resistance
- d) Discuss shortly the role of anti-Viral drugs.
- e) Write shortly about Immunostimulants.
- f) What are the drugs used in the treatment of Helminthiasis.
- g) Explain shortly about anti-diarrheal and drugs for constipation
- h) Explain anti TUBERCULOSIS drug classification.
- i) Discuss the therapy of peptic ulcer.

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C. Long answers (Answer any two in 450 to 500 words)

(2 X 10 = 20)

- a) Discuss briefly about the Pharmacology of Chemotherapy.
- b) Explain briefly about the role of free radicals in development of various diseases.
- c) Discuss the Molecular and cellular mechanism of action of hormones Growth hormone.