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Total No. = 03 pages

Q.P. Code: MBN203

M.B.B.S. 2nd Prof.

(New Scheme w.e.f. 2019 admission onwards)

BF/2023/06

Pharmacology – A

M.M. : 100 Time : 3 Hours(First30 Min. for MCQs)

Note: 1. **Use OMR Sheet to answer Multiple Choice Questions(MCQs).**

2. Attempt all questions. Illustrate your answers with suitable diagrams
3. **NO SUPPLEMENTARY SHEET SHALL BE ALLOWED/PROVIDED**
4. ***The student must write Q.P. Code in the space provided on OMR Sheet and the Title *-page of the Answer Book.***

Q.1 **MCQs** (Attempt on OMR sheet) [1x20]

1. Bioavailability of drug refers to:
   a. Fraction of administered dose that reaches systemic circulation in the unchanged form
   b. Ratio of oral to parenteral dose
   c. Ratio of orally administered drug to that excreted in the feces
   d. Ratio of drug excreted unchanged in urine to that excreted as metabolites

2. Manoj a 26 year old patient has developed dyspnoea with other symptoms of anaphylactic shock after receiving penicillin injection. Which of the following is the life saving measure to treat him?
   a. Intravenous atropine b. Intravenousphysostigmine
   c. Intramuscular adrenaline d. Intramuscular noradrenaline

3. Drug efficacy refers to:
   a. The range of diseases in which the drug is beneficial
   b. The maximal intensity of response that can be produced by the drug
   c. The dose of the drug needed to produce half maximal effect
   d. The drug dose needed to produce therapeutic effect

4. A drug which can damage foetus, when given to pregnant women, is know as:
   a. Idiosyncratic b. Immunogenic
   c. Mutagenic d. Teratogenic

5. An old man presents with symptoms of urgency and increased frequency of urination in the OPD. He is diagnosed with benign hypertrophy of the prostate. The drug which provided faster and greater symptomatic relief to this patient will be:
   a. Tamsulosin b. Desmopressin
   c. Flutamide d. Sildenafil

6. Which of the following drug is used to treat open angle glaucoma:
   a. Tropicamide b. Latanoprost
   c. Lidocaine d. Cyclopentolate

7. Which of the following is Not an adverse effect of salbutamol used in bronchial asthma?
   a. Tachycardia b. Tolerance
   c. Hypokalemia d. Hypoglycemia

8. A 60 year old man came to the clinic with complaints of tremors, bradykinesia and persistent restlessness after starting and antipsychotic medicine 2 months ago for schizophrenia. What antipsychotic was the most likely to have caused the patient's symptoms?
   a. Atripiprazole b. Clozapine
   c. Chlorpromazine d. Olanzapine

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9. Dopamine is used in cardiogenic shock. In low doses (2-5 mcg/kg/min) intravenously it causes:
   a. Increased renal blood flow and mesenteric vasodilaiton
   b. Increased cardiac contractility
   c. Vasoconstriction
   d. Increased blood pressure

10. Therapeutic drug monitoring is required for the drug
   a. Heparin
   b. Phenytoin
   c. Paracetamol
   d. Diazepam

11. Which of the following is used in the treatment of acute morphine poisoning?
   a. Atropine
   b. Flumazenil
   c. Naloxone
   d. Pentazocine

12. Topical administration of Atropine in eye causes:
   a. Miosis and cyclospasm
   b. Mydriasis and cycloplegia
   c. Miosis and cycloplegia
   d. Mydriasis and cylcospasm

13. Which of the following drugs is useful in the treatment of drug induced Parkinson's disease?
   a. Benztropine
   b. Edrophonium
   c. Succinylcholine
   d. Hexamethonium

14. A 35 year old patient comes to you with the symptoms of allergic rhinitis. Which of the following is most appropriate to treat this patient?
   a. Antiadrenegric drug
   b. Antihistamininc drug
   c. Antibiotics
   d. Vitamins

15. A 40 year old patient presents to Psychiatry OPD with complaints of sadness, lack of interest in day to day activities, increased appetite and inability to sleep for one month. Psychiatrist started treatment with fluoxetine. Fluoxetine acts as a:
   a. Monoamine oxidase inhibitor
   b. Selective serotonin reuptake inhibitor
   c. Cholinesterase inhibitor
   d. Serotonin noradrenaline reuptake inhibitor

16. A 50 year old patient attends dental clinic for tooth extraction. Which of the following anaesthetic agent is suitable for local anaestheis?
   a. Propofol
   b. Halothane
   c. Lignocaine
   d. Ketamine

17. Which of the following antipsychotics is associated with risk of agranulocytosis and hence used only for resistant schizophrenia.
   a. Aripiprazole
   b. Ziprasidone
   c. Risperidone
   d. Clozapine

18. Initial high dose, administered to achieve desired therapeutic concentration rapidly is known as:
   a. Loading dose
   b. Depot formulation
   c. Maintenance dose
   d. Toxic dose

19. Common adverse effect related to Aspirin is:
   a. Skeletal muscle relaxation
   b. Drug-induced Parkinsonism
   c. Sedation
   d. Gastrointestinal bleeding

20. Ergometrine is indicated for:
   a. Augmentation of labour
   b. Postpartum hemorrhage
   c. Relaxation of uterus
   d. Nausea and vomiting of pregnancy

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Q.2. What is biotransformation? Write types of biotransformation reaction. Discuss role of microsomal enzymes in biotransformation of drugs along with suitable examples. [3+3+6]

Q.3. **Write short notes on:-** [5x4]

a. Drug antagonism
b. Skeletal muscle relaxants
c. Pharmacotherapy of migraine
d. Bupivacaine

Q.4. **Explain why:-** [3x5]

a. Therapeutic drug monitoring is indicated with Lithium carbonate prescribed for the management of Bipolar disorder
b. Tamsulosin is prescribed for the treatment of benign prostate hypertrophy
c. Some drugs are available as enteric coated formulations
d. Neostigmine is preferred over physostigmine for the treatment of myasthenia gravis
e. Beta blockers should not be discontinued abruptly

Q.5. **Discuss briefly:** [6x3]

a. Pharmacotherapy of Gout
b. Atropine in the treatment of organphosphorous poisoning
c. Prostaglandin analogues for medical termination of pregnancy

Q.6. **Short notes:-** [5x3]

a. Pharmacotherapy of open angle glaucoma
b. Phenytoin
c. Pharmacotherapy of bronchial asthma

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