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**Date of issue :**

10/10/2010

**Centre :**

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Sup. Sign.

11/11/2016

**Seat No. :**

11/11/2016

**Second Year M. B. B. S. Examination**

**January - 2022**

## Pharmacology : Paper-I

*(New Curriculum)*

Time : Hours]

[Total Marks :

**Instructions :**

(1)

નીચે દર્શાવેલ નિજાનીવાળી વિગતો ઉત્તરવર્ણી પર અવશ્ય લખવી.  
Fillup strictly the details of signs on your answer book.  
Name of the Examination : **Second Year M. B. B. S.**  
Name of the Subject : **Pharmacology : Paper-I**  
Subject Code No. : **2 1 0 6 0 0 0 1 0 2 0 2 0 1 0 1** Section No. (1, 2,.....) : **Nil**

Seat No. :

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Student's Signature \_\_\_\_\_

- (2) All MCQs are compulsory
- (3) Encircle the most appropriate correct option [i.e. (a), (b), (c) or (d)]

1 Multiple choice Questions (MCQs) :

$$1 \times 20 = 20$$

- (1) A 70 year-old man was administered penicillin i.v. Within 5 minutes, he developed generalized urticaria, swelling of lips, hypotension and bronchospasm. The first choice is to administer :
- (a) Chlorpheniramine inj
  - (b) Epinephrine inj.
  - (c) High dose hydrocortisone tablet
  - (d) Nebulized salbutamol
- (2) Which of the following agents binds to GABA receptor Chloride channel complex?
- (a) Ethanol
  - (b) Alphaxolon
  - (c) Zolpidem
  - (d) Buspirone

- (3) Alpha-receptor stimulation includes all of the following effects EXCEPT:
- (a) Relaxation of gastrointestinal smooth muscle
  - (b) Contraction of bladder base, uterus and prostate
  - (c) Stimulation of insulin secretion
  - (d) Stimulation of platelet aggregation
- (4) Which of the following agents enhances the bioavailability of Levodopa in patients with Parkinson's disease:
- (a) Amantadine
  - (b) Ropinirole
  - (c) Entacapone
  - (d) Selegiline
- (5) Mechanism of action of Mianserin:
- (a) Inhibits alpha-adrenergic, H1, and some types of serotonin receptors.
  - (b) Inhibits alpha-adrenergic, H2, and some types of serotonin receptors.
  - (c) Inhibits beta-adrenergic, H1, and some types of serotonin receptors.
  - (d) Inhibits alpha- adrenergic and H1 receptors.
- (6) Omalizumab is indicated for which of the following conditions:
- (a) Multiple myeloma
  - (b) Psoriasis
  - (c) Bronchial Asthma
  - (d) Rheumatoid Arthritis
- (7) Which of the following drugs undergoes Hoffman's elimination?
- (a) Atracurium
  - (b) Pancurinium
  - (c) Mivacurium
  - (d) Vecuronium
- (8) Which of the following is an example of physiological antagonism?
- (a) Heparin-protamine
  - (b) Prostacycline-thromboxene
  - (c) Adrenaline-phenoxybenzamine
  - (d) Physostigmine-Acetylcholine

- (9) Following are used of anticholinesterases. EXCEPT.
- Alzheimer's disease
  - Myasthenia gravis
  - Organophosphorus poisoning
  - Glaucoma
- (10) A 3-year-old child was undergoing squint surgery, initial heart rate was 140 beats per min. after anaesthesia and start of surgery heart rate dropped to 40 beats/min. what should be the next step?
- Stop surgery
  - Decrease plane of anaesthesia
  - Inj glycopyrrolate
  - Inj atropine
- (11) Which of the following does not potentiate the action of neuro-muscular blocker?
- Hypothermia
  - pH changes
  - Halothane
  - Hyperkalaemia
- (12) After which phase of clinical trial a new drug is marketed?
- Phase I
  - Phase II
  - Phase III
  - Phase IV
- (13) For pre-anesthetic medication all drugs can be used EXCEPT.
- Diazepam
  - Glycopyrrolate
  - Metoclopramide
  - Phenobarbitone
- (14) Which of the following drugs is effective in painful tingling sensation due to diabetic neuropathy:
- Aspirin
  - Ibuprofen
  - Gabapentin
  - Tramadol
- (15) Drug of choice for myoclonic seizures is:
- Valproic acid
  - Phenytoin
  - Ethosuximide
  - Carbamazepine

- (16) Which of the following agents is used for acute iron poisoning?
- (a) Penicillamine                      (b) Deferasirox  
(c) Desferioxamine                  (d) Dimercaprol
- (17) Alkaline diuresis is done for treatment of poisoning due to:
- (a) Barbiturates                      (b) Morphine  
(c) Amphetamine                  (d) Ethyl alcohol
- (18) Which of the following statements is wrong about Buspirone?
- (a) It doesn't produce withdrawal symptoms on stoppage.  
(b) It doesn't produce sedation  
(c) It has anticonvulsant action  
(d) It has no muscle relaxant activity
- (19) Inverse agonist has
- (a) Affinity but no intrinsic activity  
(b) Affinity and submaximal intrinsic activity  
(c) Affinity but intrinsic activity with minus sign  
(d) Both affinity and maximal intrinsic activity
- (20) A young patient is being treated for myasthenia gravis, which requires frequent adjustment of the optimal dose of Neostigmine. The patient is challenged with Edrophonium to evaluate the effectiveness of the cholinesterase inhibition. Optimal dosing will be indicated by
- (a) An increase in muscle strength  
(b) A decrease in muscle strength  
(c) No change in muscle strength  
(d) Initially increase and later on decrease in muscle strength