

03/24

The West Bengal University of Health Sciences
MBBS 2nd Professional Examination (New Regulation) July- August 2024

Subject: Pharmacology
 Paper: II

Full Marks: 100
 Time: 3 hours

Attempt all questions. The figures in the margin indicate full marks.

1. a) A 34 year old woman was on combined OCP. She was diagnosed as a case of pulmonary TB and was prescribed HRZE daily for 2 months followed by HR thrice weekly for 4 months. In the 3rd month of treatment she failed to have withdrawal bleeding during the gap period of contraceptive cycle. Her pregnancy test was positive one week later. 2+5+5+3
 - i) What is the reason for contraceptive failure?
 - ii) Write down the mechanism of action of OCP.
 - iii) What are the serious complications of OCP use?
 - iv) Add a note on other health benefits of OCP use other than prevention of unwanted pregnancy.

- b) A 34 year old man is being prepared for an abdominal surgery with pre anesthetic medications. 2+(5+5)+3
 - i) What is pre anesthetic medication?
 - ii) Enumerate the drugs to be used as pre anesthetic medications with individual specific reasons of their requirement.
 - iii) What are the disadvantages of pre anesthetic medications?

2. a) Classify Gluco-corticoids as per their duration of action. Write down the uses and adverse effects of corticosteroids. 3+3+4

- b) A patient came to medicine OPD with features of gout.
 - i) Enumerate the drugs used in acute gout.
 - ii) Allopurinol is used for what purpose and how does it help in gout?
 - iii) Why should allopurinol not be used with 6-mercaptopurine? 3+4+3

- c) What is the treatment regimen for chloroquine resistant falciparum malaria? Explain the role of primaquine as an antimalarial agent. Mention two extra malarial uses of chloroquine. 4+4+2

3. Write short notes on following: 2 x 5
 - a) Sodium glucose Co-transporter-2 inhibitors.
 - b) Anti Pseudomonal antibiotics.

4. Explain the following statements: 5 x 4
 - a) Imipenem is administered with cilastin.
 - b) Bupivacaine injected epidurally has become very popular in obstetrics.
 - c) Clopidogrel should not be co-administered with omeprazole.
 - d) Non selective MAO inhibitors should not be combined with pethidine.
 - e) Morphine is contraindicated in head injury.

5. Choose the correct option for each of the following:

10 x 1

- i) What is true regarding tolerance occurring in regular opium abusers?
- Tolerance develops to all actions of morphine.
 - No tolerance occurs to euphoric and sedative actions of morphine.
 - No tolerance occurs to constipating and miotic actions of morphine.
 - Lethal dose of morphine is not significantly increased.
- ii) The 'neuroleptic syndrome' produced by chlorpromazine like drugs is characterized by the following except:
- Emotional quietening
 - Paucity of movements
 - Ataxia
 - Indifference to external cues
- iii) The success of oral rehydration therapy of diarrhea depends upon the following process in the intestinal mucosa:
- Sodium pump mediated sodium absorption
 - Glucose coupled sodium absorption
 - Bicarbonate coupled sodium absorption
 - Passive sodium diffusion secondary to nutrient absorption
- iv) Shortest acting proton pump inhibitor is:
- Omeprazole
 - Pantoprazole
 - Lansoprazole
 - Rabeprazole
- v) Ezetimibe acts by:
- Enhanced excretion of bile acids
 - Decreased absorption of cholesterol
 - Inhibiting HMG-CoA reductase
 - Inhibiting intracellular lipase
- vi) Drug causing deafness is:
- Thiazide
 - Spirolactone
 - Ethacrynic acid
 - Triamterene
- vii) Antiemetic known as hurrying agent is:
- Metoclopramide
 - Ondansetron
 - Aluminium hydroxide gel
 - Magnesium hydroxide
- viii) Tetracyclines:
- Have three cyclic rings in its structure
 - Inhibits cell wall synthesis
 - Causes grey baby syndrome
 - Can precipitate fatal acute hepatic necrosis in pregnant woman
- ix) Which of the following drugs does not affect GABA_a gated chloride channel?
- Alcohol
 - Picrotoxin
 - Muscimol
 - Buspirone
- x) Least sedative antihistaminic drug is:
- Fexofenadine
 - Cetirizine
 - Chlorpheniramine
 - Diphenhydramine