

Date: 03-02-2024

0224 E641

Second Year MBBS Examination

II MBBS Pharmacology Paper 2

Time: 3 hours

Max Marks: 100

Instructions:

1. Answer to the points.
2. Figure to the right indicates marks.
3. Use separate answer books for each section.
4. Draw diagrams wherever necessary.
5. Write legibly.

Section 1

1. Answer any one

a) Classify fluoroquinolones. Write briefly on mechanism of action, uses and side effects of Ciprofloxacin. Discuss the difference between first generation & second generation fluoroquinolones. (3+5+2=10)

~~**b)** Enumerate the problems that arise with the~~

use of antimicrobial agents. Discuss the mechanisms of development of drug resistance & the measures for its prevention.

2. Answer Any two of the following: (3+5+2=10)

a) A 3 year old girl from malaria endemic region presented at the emergency department with history of convulsion, altered sensorium irregular high fever of 40°C , loss of appetite, abnormal behavior for last 2 days, On examination, BP is low with systolic BP less than 65 mmHg. Blood smear examination suggests *P. falciparum* malaria. Explain the drug therapy in the treatment of the patient. Write the mechanism of action and adverse reaction of any one of them. (2x6=12)

b) A child presented with excessive thirst, excessive urination and vomiting. Based on the investigations, pediatrician diagnosed it as Fanconi syndrome. A history of consuming an expired antibiotic agent was obtained from the mother. Which antibiotic

is responsible for this syndrome. Write uses and adverse effects of above drugs.

c) A 35 years old female visited (2x6=12) medicine department with complaints of cough, evening rise of fever, loss of appetite, weight loss since 1 month. After complete investigations, diagnosis of pulmonary Koch's was made. Mention the drug regimen for this patient. Write down the side effects of first line drugs. Write down the precautions to be taken by the patient.

3. Write Short Notes on Any three of the following: (2x6=12)

a) Mention the treatment of urinary tract infection. (3x6=18)

b) Therapeutic uses and adverse reaction of Ketoconazole. (3x6=18)

c) Drug therapy for pseudomembranous colitis. (3x6=18)

d) General toxicity of anticancer drugs.

4. Answer Any Five of the following briefly: (3x6=18)

- a) Rationale of using oral neomycin for hepatic coma. (2x5=10)
- b) Mention why clofazimine is used for treatment of lepra reaction. (2x5=10)
- c) Write the pharmacological basis for use of sodium stibogluconate in kala azar (2x5=10)
- d) Explain why ifosfamide is used along with mesna in cancer treatment. (2x5=10)
- e) Mention the treatment of Hepatitis B infection. (2x5=10)
- f) Drugs used in Scabies (2x5=10)

Section 2

5. Answer any one

- a) Enumerate various hormonal contraceptive method used for female contraception. Discuss briefly their mechanism of action, advantages and disadvantages. (3+5+2=10)
- b) Discuss hormones of anterior pituitary. Write briefly any five physiological function of gonadotropin & mention any two important side effect of each. (3+5+2=10)

6. Answer Any Two of the following:

a) A 57 years old woman who is on aspirin for her knee pain since few weeks, came with complains of severe epigastric pain mostly at night and between meals, burning pain in chest and sometimes nausea. Her pain worsened after taking aspirin and drinking coffee, and was relieved after taking antacids. She was diagnosed with gastritis. Mention at least 4 different classes of drugs with 2 examples, which can be used to relieve her gastritis. Discuss the management of H.pylori infection. (2x6=12)

b) A 24 years old primigravidae present to a emergency room with contraction. She is currently 30 weeks - pregnant. What drugs to be advised in this situation and why. Also mention the adverse drug reaction of the drug used. (2x6=12)

c) A 37 year old patient presented to the physician with complaints of breathlessness and wheezing. This Symptoms use to occur and aggravate during the night time and

interrupt his sleep. He was diagnosed to be having moderate bronchial asthma.

Enumerate the drugs used in this patient stating their respective mechanism of action. Also mention Various dosage forms and devices used to administer the drugs for bronchial asthma. (2x6=12)

7. Write Short Notes on Any Three of the following:-

- a) Mechanism of action, uses and adverse reaction of Prokinetic drugs. (3x6=18)
- b) Aromatase inhibitors. (3x6=18)
- c) Mechanism of action, uses and adverse effects of Clomiphene citrate. (3x6=18)
- d) Treatment of Dysfunctional uterine bleeding. (3x6=18)

8. Answer Any Five of the following briefly:

- a) Mention drugs used for psoriasis.
- b) Write short note on any two chelating agent. (2x5=10)
- c) Mention therapeutic uses of Vit B

complex.

(2x5=10)

d) Mention uses and misuses of purgatives.

e) Discuss briefly about (2x5=10)

inhalational glucocorticoids. (2x5=10)

f) Explain why Bisphosphonates uses for postmenopausal osteoporosis. (2x5=10)

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