

## SECOND PROFESSIONAL M.B.B.S. DEGREE EXAMINATION, MARCH 2010

## PHARMACOLOGY—Paper II

(New Scheme)

Time : Two Hours

Maximum : 40 Marks

*Answer all questions.**Draw diagrams wherever necessary.**Answer Sections A and B in separate answer-books.**MCQ should be answered first in the response sheet provided.*

## Section A

- I. Multiple Choice Questions. Single response type (separate sheet attached).  $(8 \times \frac{1}{2} = 4 \text{ marks})$
- II. Match the following. Single response type (separate sheet attached).  $(8 \times \frac{1}{2} = 4 \text{ marks})$
- III. In a schematic diagram showing different phases of cell cycle, mark the sites of action of :
- (a) Vincristine.
  - (b) Fluorouracil.

 $(1 + \frac{1}{2} + \frac{1}{2} = 2 \text{ marks})$ 

## IV. Write short answers :

- (a) Mention four advantages of Azithromycin over Erythromycin.
- (b) What are tocolytics ? Give two examples.
- (c) Name the glucocorticoid preferred in pregnant patient. Give the reason.
- (d) What is lepra reaction ? Name two drugs used to treat type II lepra reaction.

 $(4 \times 1 = 4 \text{ marks})$ 

## V. Write briefly on :

- (a) Desferrioxamine.
- (b) Ciprofloxacin.
- (c) Superinfections.

 $(3 \times 2 = 6 \text{ marks})$ 

## Section B

- VI. A 45-year old male patient admitted with sputum positive tuberculosis. No history of previous anti-tuberculosis treatment.
- (a) Outline the treatment for this patient.
  - (b) Name the first line drugs used in tuberculosis. Which among them is not given orally ? Why ?
  - (c) Which first line drug is given only during initial phase of treatment ? Give reason. Mention the adverse effects of this drug.

Turn over

- (d) Which first line drug is effective against persisters ? How does it act ? Mention *four* other uses of this drug.

(4 × 2 = 8 marks)

VII. Give the rationale for the following :

- (a) Chloroquine + Primaquine in malaria.
- (b) Tamoxifen in carcinoma breast.
- (c) Sulfasalazine in ulcerative colitis.
- (d) Methotexate + Folinic acid in choro carcinoma.

(4 × 1 = 4 marks)

VIII. Write short notes on :

- (a) Metronidazole.
- (b) Proton pump inhibitors.
- (c) Bisphosphonates.
- (d) Insulin sensitizers.

(4 × 2 = 8 marks)

## I. MULTIPLE CHOICE QUESTIONS

Note.—(1) *Do not write anything on the question paper.*

(2) *Write your register number on the answer-sheet provided.*

(3) *Select the most **appropriate** response and encircle the alphabet in the answer-sheet provided.*

(4) *In the answer-sheet enter the total number of your answers in the appropriate box provided.*

(5) *Each question carries  $\frac{1}{2}$  mark.*

1. All the following are antiemetics *except* :

- |                     |                     |
|---------------------|---------------------|
| (A) Apomorphine.    | (B) Metoclopramide. |
| (C) Chlorpromazine. | (D) Ondansetron.    |

2. Which drug is ineffective against anaerobes ?

- |                      |                  |
|----------------------|------------------|
| (A) Chloramphenicol. | (B) Cefotaxime.  |
| (C) Ciprofloxacin.   | (D) Clindamycin. |

3. Which is a teratogenic antimicrobial ?

- |                   |                   |
|-------------------|-------------------|
| (A) Penicillin G. | (B) Erythromycin. |
| (C) Gentamicin.   | (D) Streptomycin. |

4. All the following are nephrotoxic *except* :

- |                 |                      |
|-----------------|----------------------|
| (A) Cisplatin.  | (B) Amphotericin B.  |
| (C) Vancomycin. | (D) Chloramphenicol. |

5. Anthelmintic that causes spastic paralysis of the worm is :

- |                   |                       |
|-------------------|-----------------------|
| (A) Piperazine.   | (B) Pyrantel pamoate. |
| (C) Praziquantel. | (D) Benznidazole.     |

6. Drug of choice for cytomegalovirus induced retinitis is :

- |                  |                  |
|------------------|------------------|
| (A) Acyclovir.   | (B) Ganciclovir. |
| (C) Idoxuridine. | (D) Ribavirin.   |

7. All the following are adverse effects of corticosteroids *except* :

- |                     |                    |
|---------------------|--------------------|
| (A) Hypertension.   | (B) Cataract.      |
| (C) Hyperglycaemia. | (D) Hyperkalaemia. |

8. Which is a DMARD ?

- |                 |                      |
|-----------------|----------------------|
| (A) Infliximab. | (B) Prednisolone.    |
| (C) Etoricoxib. | (D) D-Penicillamine. |

(8 ×  $\frac{1}{2}$  = 4 marks)

## PHARMACOLOGY—Paper II

II. Match the following :

A. Match for antimicrobial spectrum :

- |               |                              |
|---------------|------------------------------|
| 1 Fluconazole | (a) Chlamydiae.              |
| 2 Albendazole | (b) Candida albicans.        |
| 3 Doxycycline | (c) Toxoplasma.              |
| 4 Clindamycin | (d) Pseudomonas.             |
|               | (e) Echinococcus granulosus. |

B. Match for adverse effect :

- |                  |                           |
|------------------|---------------------------|
| 1 Cyclosporine   | (a) Pancreatitis.         |
| 2 Doxorubicin    | (b) Hypokalaemia.         |
| 3 Didanosine     | (c) Gum hypertrophy.      |
| 4 Chlorpropamide | (d) Cardiomyopathy.       |
|                  | (e) Cholestatic Jaundice. |

(8 × ½ = 4 marks)