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SECOND PROFESSIONAL M.B.B.S. DEGREE EXAMINATION, JULY 2009

PHARMACOLOGY—Paper II

Time : Two Hours

Maximum : 40 Marks

Answer all questions.

Draw diagrams wherever necessary.

Answer Sectionss A and B in separate answer-books.

MCQs should be answered first in the response sheet provided.

Section A

- I. Multiple Choice Questions. Single response type (separate sheet attached). (8 × ½ = 4 marks)
- II. Match the following. Single response type (Separate sheet attached). (8 × ½ = 4 marks)
- III. Draw a schematic diagram of a gastric parietal cell and mark the site of action of (a) pantoprazole; (b) Famotidine.

(1 + ½ ½ = 2 marks)

IV. Short answer questions :

- 1 Explain sequential blockade with one example.
- 2 Name *four* drugs used in lepra reaction.
- 3 Explain leucovorin rescue.
- 4 Mechanism of action of pioglitazone.

(4 × 1 = 4 marks)

V. Write short notes on :

- 1 Amphotericin -B.
- 2 Metronidazole.
- 3 Treatment of Thyrotoxic crisis.

(3 × 2 = 6 marks)

Section B

- VI. Ravi, 32 years, a truck driver developed fever, cough, malaise and weight loss. He was tested positive for TB and HIV.

- 1 Name the anti TB drug effective against persistors. Write its mechanism of action and two other uses.
- 2 Name *four* drugs effective against MAC.
- 3 List *two* advantages of DOTS.
- 4 List *four* groups of drugs effective against HIV with one example each.

(2 + 1 + 1 + 2 = 6 marks)

VII. Choose the correct drug from the given pair and justify your choice.

- 1 Benzyl Penicillin/Benzathine Penicillin for pneumonia.
- 2 Regular/Lente insulin for ketoacidosis.
- 3 Dimeraprol/Desferrioxamine for iron poisoning.
- 4 Praziquantel/Albendazole for neurocysticercosis.

(4 × 1½ = 6 marks)

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VIII. Write short notes on :

- 1 Bisphosphonates.
- 2 Superinfection.
- 3 Vinca alkaloids.
- 4 Cyclosporine.



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PHARMACOLOGY—Paper II

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 **one** most appropriate response and encircle the corresponding alphabet against each question 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. Which of the following is NOT a bacterial cell wall synthesis inhibitor?

- | | |
|--------------------|------------------|
| (A) Caspofungin. | (B) Cycloserine. |
| (C) Carbenicillin. | (D) Ceftriaxone. |

2. Chloroquine is effective in all *except* :

- | | |
|--------------------|-------------------------|
| (A) Gout. | (B) Hepatic amoebiasis. |
| (C) Lepa reaction. | (D) Scleroderma. |

3. Renal elimination of Gentamicin parallels :

- | | |
|----------------|-----------------|
| (A) Urea. | (B) Creatinine. |
| (C) Uric acid. | (D) Potassium. |

4. Anaerobes are not sensitive to :

- | | |
|--------------------|----------------------|
| (A) Metronidazole. | (B) Amikacin. |
| (C) Penicillin. | (D) Chloramphenicol. |

5. Drug of choice for CMV retinitis is :

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

6. Glove and stocking neuropathy is a characteristic side effect of :

- | | |
|------------------|----------------------|
| (A) Doxorubicin. | (B) Paclitaxel. |
| (C) Etoposide. | (D) L. asparaginase. |

7. Which of the following is NOT an antiandrogen?

- | | |
|------------------|---------------------|
| (A) Letrozole. | (B) Danazol. |
| (C) Ketoconazole | (D) Spironolactone. |

8. Octreotide is used for all *except* :

- | | |
|--------------------------|-------------------------|
| (A) Portal hypertension. | (B) Insulinoma. |
| (C) Glucagonoma. | (D) Cushing's syndrome. |

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II. Match the following :

A. Drug with use

- | | |
|----------------|------------------------|
| 1 Lactulose | (a) Brucellosis. |
| 2 Doxycycline | (b) Lymphoma. |
| 3 Prednisolone | (c) Onychomycosis. |
| 4 Terbinafine | (d) Encephalopathy. |
| | (e) Myeloid leukaemia. |

B. Drug with side effect.

- | | |
|---------------|-------------------------|
| 1 Quinine | (a) Encephalopathy. |
| 2 Clindamycin | (b) Hypoglycemia. |
| 3 Tacrolimus | (c) Pulmonary fibrosis. |
| 4 Bleomycin | (d) Hyperglycemia. |

(e) Colitis.