

SECOND PROFESSIONAL M.B.B.S. DEGREE EXAMINATION, JANUARY 2006**PHARMACOLOGY—Paper II**

(New Scheme)

Time : Two Hours

Maximum : 40 Marks

*Answer all the questions.**Answer Section A and Section B in separate answer-books.**MCQs should be answered first in the response sheet provided.***Section A**

- I. Multiple Choice Questions. Single response type 8 (separate sheet attached). ($8 \times \frac{1}{2} = 4$ marks)
- II. Match the following. (separate sheet attached). ($8 \times \frac{1}{2} = 4$ marks)
- III. In the diagram of Thyroid Hormone synthesis, secretion and action, mark the sites of action of
- (a) Propranolol.
 - (b) Propylthiouracil.
- ($1 + \frac{1}{2} + \frac{1}{2} = 2$ marks)
- IV. Short answer questions :
- (a) Mechanism of action of cotrimoxazole.
 - (b) Uses of interferons.
 - (c) ADR of aminoglycoside antibiotics.
 - (d) Antibacterial spectrum of chloramphenicol.
- ($4 \times 1 = 4$ marks)
- V. Short notes on :
- (a) Protease inhibitors.
 - (b) Albendazole.
 - (c) Prokinetic agents.

($3 \times 2 = 6$ marks)

Section B

- VI. Mr. Ramesh, 45 years old teacher was admitted with fever, cough and loss of weight. Sputum was positive for AFB. He was started on INH, Rifampicin, Pyrazinamide and Ethambutol.
1. Mention the drug regimen for this patient.
 2. Mention the mechanism of action and two uses of Rifampicin other than TB.
 3. What are the advantages of combination chemotherapy for this patient ?
 4. Which anti TB drug is contraindicated in pregnancy ?
 5. What is the drug of choice in Mycobacterium avium complex infection ?

($2 + 2 + 2 + 1 + 1 = 8$ marks)

Turn over

VII. Choose the appropriate drug from the drug pair giving the reason for your choice :

- (a) BAL/Desferrioxamine in Iron poisoning.
- (b) Scopolamine/Domperidone in motion sickness.
- (c) Calcitriol/Parathormone in hypoparathyroidism.
- (d) Ergometrine/Oxytocin for induction of labour.

(4 × 1 = 4 marks)

VIII. Short notes on :

- (a) Topical antifungal agents.
- (b) Newer antimalarials.
- (c) Cisplatin.
- (d) Ovulation inducing agents.

(4 × 2 = 8 marks)

I. MULTIPLE CHOICE QUESTIONS

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

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

(3) *Select **one** most appropriate response and encircle the corresponding alphabet against each question number in the answer-sheet provided.*

1. Clavulanic acid is combined with Amoxycillin because :
 - (A) It kills bacteria that are not killed by Amoxycillin.
 - (B) It reduces renal excretion of Amoxycillin.
 - (C) It counters the side effect of Amoxycillin.
 - (D) It extends the spectrum of Amoxycillin.
2. Macrolide antibiotic which achieves extensive tissue distribution is :
 - (A) Azithromycin.
 - (B) Spiramycin.
 - (C) Roxithromycin.
 - (D) Clarithromycin.
3. Which of the following immuno suppressant agents is a specific T cell blocker acting as Calcineurin inhibitor ?
 - (A) Cyclosporine.
 - (B) Azathioprin.
 - (C) Mycophenolate.
 - (D) Prednisolone.
4. Anticancer drug producing cumulative cardiac toxicity is :
 - (A) Adriamycin.
 - (B) Cisplatin.
 - (C) Bleomycin.
 - (D) Ifasfamide.
5. Hypoglycemia is most likely with the use of :
 - (A) Glimiperide.
 - (B) Metformin.
 - (C) Acarbose.
 - (D) Rosiglitazone.
6. The indications for corticosteroids do not include :
 - (A) Arthritis.
 - (B) Bronchial Asthma.
 - (C) Peptic ulcer.
 - (D) Addison's disease.
7. Finasteride is :
 - (A) 5-alpha reductase inhibitor.
 - (B) Anabolic steroid.
 - (C) Antioestrogen.
 - (D) Antiandrogen.
8. All the following are tocolytic agents **except** :
 - (A) Nifedipine.
 - (B) Ritodrine.
 - (C) Misoprostol.
 - (D) Magnesium Sulphate.

PHARMACOLOGY—Paper II

II. Match the following :—

A. Hypolipidemic agent with the mechanism of action :

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|------------------|---|
| 1 Atorvastatin | (a) Activating lipoprotein lipase. |
| 2 Colestipol | (b) Inhibiting enterohepatic circulation of bile acids. |
| 3 Gemfibrozil | (c) Blocking HMG CoA reductase. |
| 4 Nicotinic acid | (d) Decreasing VLDL secretion from liver |
| | (e) Blocking cholesterol absorption. |

B. Antimicrobial agent with side effect :

- | | |
|---------------|---------------------------------|
| 1 Clofazamine | (a) Peripheral neuropathy |
| 2 INH | (b) Brown Pigmentation of skin. |
| 3 Vancomycin | (c) Redman's syndrome. |
| 4 Clindamycin | (d) Renal failure |
| | (e) Pseudo membranous colitis |

(8 × ½ = 4 marks)