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2106

Reg. No. :

Name :

Second Professional M.B.B.S. Examination, June 2009
PHARMACOLOGY (Paper – II)

Time : 2 Hours

Max. Marks : 40

SECTION – A

I. Multiple choice questions (single response type) : (½ ×8=4 Marks)

Instructions : a) Do not write anything on the **question** paper.

b) Write your Register Number in the sheet **provided**.

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

1) Glucocorticoids are contra indicated in

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|--------------------------|-----------------|
| a) Organ transplantation | b) Asthma |
| c) Lymphoma | d) Hypertension |

2) Leuprolide is used in the treatment of

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|---------------------|-----------------------|
| a) Ovarian Cancer | b) Breast Cancer |
| c) Prostatic Cancer | d) Osteogenic Sarcoma |

3) Ethambutol shows the typical adverse effect of

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|-------------------|-------------------|
| a) Neurotoxicity | b) Myelotoxicity |
| c) Optic Neuritis | d) Nephrotoxicity |

4) Insulin resistance is declared when daily requirement of insulin exceeds

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|-------------|--------------|--------------|--------------|
| a) 50 units | b) 100 units | c) 200 units | d) 300 units |
|-------------|--------------|--------------|--------------|

P.T.O.



- 5) Amongst the anticancer agents given below, the least toxic is
a) 1-asparaginase b) Bleomycin c) Methotrexate d) Vincristine
- 6) The antibacterial that shows sequential blockade is
a) Cotrimoxazole b) Ciprofloxacin
c) Capreomycin d) Clotrimazole
- 7) The preferred macrolide in peptic ulcer is
a) Erythromycin b) Roxithromycin
c) Clarithromycin d) Azithromycin
- 8) Which of the following drugs shows immunostimulant activity ?
a) Cyclosporine b) Tarcolimus c) Levamisole d) Paclizumab

II. Match the following :

($\frac{1}{2} \times 8 = 4$ Marks)

- | | |
|---------------------|--|
| A) 1) Erythromycin | a) Nosocomial Infections |
| 2) Cefotaxime | b) Clostridium Welchii |
| 3) Penicillin G | c) Mycobacterium tuberculosis |
| 4) Sparfloxacin | d) Corynebacterium diphtheriae |
| | e) Pseudomembranous colitis |
| B) 1) Zanamivir | a) Inhibit Squalene Epoxidase |
| 2) Terbinafine | b) Inhibits M. protein of influenza |
| 3) Rifampicin | c) Inhibits DNA dependent RNA polymerase |
| 4) Cyclophosphamide | d) Inhibit Mitosis |
| | e) Alkylation |

III. Draw and label, a schematic diagram of bacterial protein synthesis and mention the site of action of : ($1 + \frac{1}{2} + \frac{1}{2} = 2$)

- 1) Streptomycin 2) Tetracycline.



IV. Write short answers :

(1×4=4 Marks)

- 1) Why is ergometrine preferred for post partum haemorrhage ?
- 2) Mention the uses of anabolic steroids ?
- 3) What are the uses of cotrimoxazole ?
- 4) Enumerate the newer insulins.

V. Write short notes on :

(2×3=6 Marks)

- 1) Antipseudomonal penicillins
- 2) Treatment of Lepa reactions
- 3) Protease Inhibitors.

SECTION – B

VI. Read the passage and answer the following questions :

(1+2+2+2+3=10)

A 25 year old, married woman, was admitted to the ward with evening rise of low-grade fever, cough, with expectoration. On examination general condition is weak, BP 110/60 mm/Hg, Temperature 100° F. Respiratory system shows bronchophony+, tactile vocal fremitus+. Other systems are normal. X-ray of chest shows cavity on apex of right lung.

- 1) What is your likely diagnosis ?
- 2) Describe the treatment schedule used for this condition.
- 3) In order to avoid pregnancy, patient takes oral contraceptive pills. After 3 months, she comes with amenorrhea. Explain and advice.
- 4) Mention four drugs that can be given for resistant cases.
- 5) What is the advantage of combination chemotherapy in this context ?

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VII. Short answer questions :

(1×4=4 Marks)

Give the pharmacological basis for the following :

- 1) Griseofulvin in onychomycosis.
- 2) Probenecid and Penicillins are given together.
- 3) Ondansetron is given for cisplatin induced vomiting.
- 4) Lugol's iodine is given for hyperthyroidism.

VIII. Write short notes on :

(2×3=6 Marks)

- 1) Metronidazole
 - 2) Bulk Laxatives
 - 3) Gonadotropins.
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