

Name : .....

Roll No. : .....

Invigilator's Signature : .....

**CS/B.Pharm/SEM-8/PT-809A/2010**

**2010**

**ADVANCED PHARMACOLOGY**

Time Allotted : 3 Hours

Full Marks : 70

*The figures in the margin indicate full marks.*

*Candidates are required to give their answers in their own words as far as practicable.*

**GROUP - A**

**( Multiple Choice Type Questions )**

1. Choose the correct alternatives for any *ten* of the following :

10 × 1 = 10

- i) All the following ACE-inhibitors are prodrugs *except*
- |               |               |
|---------------|---------------|
| a) Ramipril   | b) Captopril  |
| c) Lisinopril | d) Enalapril. |
- ii) Theophylline has additive action with
- |                  |                   |
|------------------|-------------------|
| a) Ephedrine     | b) Physostigmine  |
| c) Acetylcholine | d) None of these. |
- iii) Which of the following is a ganglion blocking agent ?
- |                  |                   |
|------------------|-------------------|
| a) Hexamethonium | b) Acetylcholine  |
| c) Scopolamine   | d) None of these. |
- iv) Select the cell cycle non-specific antineoplastic drug :
- |                 |                    |
|-----------------|--------------------|
| a) Vincristine  | b) Bleomycin       |
| c) Methotrexate | d) 5-Fluorouracil. |

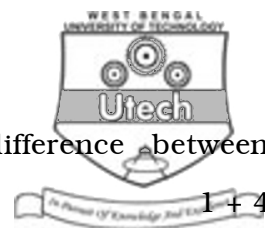
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8. a) Define Apoptosis. What is the difference between apoptosis and necrosis ? 1 + 4
- b) Explain the death receptor pathway and mitochondrial pathway in apoptosis. 10
9. a) Define immunomodulators.
- b) Classify the drug used as immuno-suppressive agents.
- c) Write down the immuno-suppressive mechanism of cyclosporine & glucocorticoids. 2 + 4 + 9
10. a) Explain the pathophysiology of Parkinson's disease.
- b) Classify the drugs used to treat Parkinson's disease.
- c) Explain the mechanism of action, adverse effects and ADME of Levodopa in Parkinson's disease.
11. a) Describe the steps of the cell cycle.
- b) What is the relation between cell-cycle and cancer chemotherapy ? Name some cell-cycle specific drugs, mentioning the state at which they act. 8 + 2 + 5
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