

2016-2017  
PHARMACOLOGY  
PHARMACOGNOST

SEM-V second half 2016  
PLO-89-IT Q. P. Code : 499900

(3 Hours)

[Total Marks : 70]

N.B. : (1) All questions are compulsory.  
(2) Figures to the right indicate full marks.

1. a) Answer the following :- 12
- Enlist the first line drugs used in treatment of TB.
  - Penicillin and Amino glycoside antibiotics in combination exhibit synergistic action, justify.
  - Enlist the clinical uses of Immuno-suppressants.
  - Classify insulin preparations.
  - Name the drug used in "Emergency Contraception" and give its mechanism of action.
  - Give two examples of Tissue Plasminogen Activator. Justify their use after stroke.
- b) Match the following :- 3
- |                  |                     |
|------------------|---------------------|
| i) Carbenicillin | a) Anti-fungal      |
| ii) Carbimazole  | b) Anti-Platelet    |
| iii) Clopidogrel | c) Anti-Pseudomonas |
|                  | d) Thyrotoxicosis   |
2. a) Answer any two of the following :- 8
- Classify anti-microbials on mechanism of action. Write a note on rational use of antibiotics.
  - Enlist the anti-metabolites used in Cancer. Write a note on Methotrexate.
  - Illustrate targets of anti malarial drugs. Elaborate on mechanism of action, side effects and uses of chloroquine.

[TURN OVER]

**b) Answer any one of the following :- 3**

- i) Write a short note on Zidovudine.
- ii) Write a short note on topical anti fungal agents.

**3. a) Answer any two of the following :- 8**

- i) Classify oral Hypo glycaemic agents. Write a note on Biguanides.
- ii) What are the abnormalities of Thyroid function. Give an account on drugs used in hyperthyroidism.
- iii) What is the hormonal control of bone mineral homeostasis. Explain the role of bisphosphonates in treatment of osteoporosis.

**b) Write short note on any one :- 3**

- i) Oxytocin
- ii) DPP-IV Inhibitors

**4. a) Answer any two of the following :- 8**

- i) Discuss the pharmacology of Folic acid.
- ii) Enlist Platelet inhibitors. Discuss the Pharmacology of Aspirin.
- iii) Give a detailed account on Iron preparations.

**b) Write a short note on any one :- 3**

- i) Vitamin K
- ii) Streptokinase

**5. a) Answer any two of the following :- 8**

- i) Classify anti amoebic drugs. Give an account on mixed amoebicidal agents.
- ii) Classify Anti-viral agents. Write a note on protease inhibitors.
- iii) Classify Anthelmintics. Write a note on Mechanism of action, side effects and Uses of Albendazole.

**b) Write short note on any one :- 3**

- i) Sulphonamides
- ii) Chloramphenicol

[TURN OVER]

3

6. a) Answer any two of the following :-

8

- i) Classify Immunomodulators with Examples. Enlist the clinical applications of Immunomodulators.
- ii) Give a detailed account on use of Glucocorticoids as Immuno suppressants.
- iii) Write a note on effect of insulin on carbohydrate, fat and protein metabolism.

b) Write short note on any one :-

3

- i) Extended spectrum penicillins
  - ii) Amphotericin B
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