

Total No. of Pages : 02

Total No. of Questions : 18

Pharm. D (Sem.-3)
PHARMACOLOGY-II
Subject Code : 3.1
Paper ID : [A2564]

Time : 3 Hrs.

Max. Marks : 70

INSTRUCTION TO CANDIDATES :

1. SECTION-A contain SEVEN questions. Attempt any FIVE questions. Each question will carry TWO marks each.
2. SECTION-B contain EIGHT questions (Short Essay Type). Attempt any SIX questions. Each question will carry FIVE marks.
3. SECTION-C contain THREE questions (Long Essay Type). Attempt any TWO questions. Each question will carry FIFTEEN marks.

SECTION-A

- 1) Define receptors.
- 2) How natriuretics are different from diuretics?
- 3) Briefly explain JNK pathway.
- 4) Explain use of restriction endonucleases in rDNA technology.
- 5) How euchromatin is different from heterochromatin?
- 6) What is P53?
- 7) Define replication and transcription of genetic material.

SECTION-B

- 8) Discuss cotrimoxazole as Antimicrobial agent.
- 9) Write a short note on antithrombotics and their clinical implications.
- 10) Discuss contraindications and adverse effects of heparin.

- 11) Mention pre-clinical and clinical application of rDNA technology in brief.
- 12) What is erythropoiesis? Discuss use and adverse effects of erythropoietin.
- 13) What is post-transcriptional regulation of gene expression?
- 14) Discuss immunosuppressive therapy in few genetic diseases with suitable examples.
- 15) Briefly discuss chemotherapy of tuberculosis.

SECTION-C

- 16) How monoclonal antibodies are different from polyclonal? Discuss monoclonal antibodies as immunosuppressive therapy in detail with suitable examples.
- 17) Explain gene transfection technologies in detail and also discuss role of P53 in pathological apoptosis of transfected cells.
- 18) What is neoplasm? Discuss cancer chemotherapy in detail.