

# THIRD YEAR PHARM.D. : SUMMER- 2018

## SUBJECT : PHARMACOLOGY-II

Day : **Friday**  
Date : **06/04/2018**

S-2018-4032

Time : **10.00 AM TO 01.00 PM**  
Max. Marks : 70

### N.B.

- 1) Q.1 and Q.5 are **COMPULSORY**. Solve any **TWO** out of the remaining from each Section.
- 2) Figures to the right indicate **FULL** marks.
- 3) Answers to both the sections should be written in **SEPARATE** answer book.
- 4) Draw neat labeled diagrams wherever necessary.

### SECTION – I

- Q.1** a) Answer any **FOUR** of the following: (08)
- 1) Write the mechanism of action of fluroquinolones.
  - 2) Enlist the adverse effects of aminoglycoside antibiotics.
  - 3) Enlist the phases of cell cycle.
  - 4) Enlist the clinical uses of fibrinolytics.
  - 5) Enlist the indications of parenteral iron.
- b) Write a brief note on  $\beta$  lactam antibiotics. (03)
- Q.2** Classify anti-viral drugs. Describe in detail the mechanism of action, pharmacological actions, uses and adverse effects of anti-retroviral drugs. (12)
- Q.3** a) Describe in detail the treatment for malaria. (07)  
b) Write a note on physiological role of folic acid. (05)
- Q.4** Write short notes on any **THREE**: (12)
- a) Anti-platelet drugs
  - b) Spironolactone
  - c) Chronic toxicity studies
  - d) Vasopressin

### SECTION – II

- Q.5** a) Answer any **FOUR** of the following: (08)
- 1) Brief about cell to cell communication.
  - 2) Define transcription and translation.
  - 3) What is DNA polymerase III?
  - 4) What is 'S' phase in cell cycle?
  - 5) Draw a neat, labeled diagram of DNA double helix.
- b) Differentiate Prokaryotes and Eukaryotes. (03)
- Q.6** Enlist the different types of protein kinases. Discuss the activation and the role of protein kinase in cellular signaling. (12)
- Q.7** a) Describe in detail mechanism of protein synthesis. (07)  
b) Explain how DNA is folded into a chromosome. (05)
- Q.8** Write short notes on any **THREE**: (12)
- a) Epigenetic control of gene expression
  - b) Gene therapy
  - c) Applications of gene transfer technology
  - d) Gene mutation

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