

THIRD YEAR PHARM. D (SUPPLEMENTARY) : SUMMER - 2018

SUBJECT : PHARMACOLOGY – II

Day : Monday S-2018-4061 Time : 10.00 AM to 01.00 PM
Date : 02/07/2018 Max. Marks : 70

N.B.:

- 1) Q.No.1 and Q.No.5 are **COMPULSORY**. Out of the remaining questions attempt **ANY TWO** questions from each section.
- 2) Answers to both the sections should be written in **SEPARATE** answer books.
- 3) Figures to the right indicate **FULL** marks.

SECTION - I

- Q.1 a)** Answer **ANY FOUR** of the following: [08]
i) Enlist the clinical uses of antiplatelet drugs.
ii) What are maturation factors? Explain their role in Hb formation.
iii) Enlist the adverse effects of thiazide diuretics.
iv) Enlist the adverse effects of sulphonamides.
v) Enlist the clinical uses of immunostimulants.
- b)** Explain the V1 receptor based action of vasopressin. [03]
- Q.2** Classify anticancer drugs. Explain in detail the mechanism of action, uses and adverse effects of alkylating agents. [12]
- Q.3 a)** Explain the mechanism of action, clinical applications and adverse effects of macrolide antibiotics. [07]
b) Explain the chemotherapy of malaria. [05]
- Q.4** Write short notes on **ANY THREE** of the following: [12]
a) Thrombolytics
b) Folic acid
c) Chemotherapy of amoebiasis
d) Penicillin

SECTION – II

- Q.5 a)** Answer **ANY FOUR** of the following: [08]
i) Draw a diagram of plasma membrane.
ii) What is a promoter?
iii) Define gene.
iv) What is single nucleotide polymorphism?
v) What is cDNA?
- b)** Describe meiotic division. [03]
- Q.6** Discuss how gene expression is controlled by histone proteins. [12]
- Q.7** Give in details production of recombinant insulin through following: [12]
a) Producing rDNA
b) Expression of recombinant protein
c) Purification of recombinant insulin
- Q.8** Write short notes on **ANY THREE** of the following: [12]
a) Conjugation in bacteria
b) Frame shift mutation
c) Restriction endonuclease
d) Life cycle of T4 phage

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