

SUPPLEMENTARY
DOCTOR OF PHARMACY
Third Year Pharm. D. :SUMMER- 2022
SUBJECT : PHARMACOLOGY-II

Day : Monday

Time : 02:00 PM-05:00 PM

Date : 12/9/2022

S-5737-2022

Max. Marks : 70

N.B.

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

- Q.1** A) Attempt **ANY FOUR** of the following : **(08)**
- i) Define antimicrobial agents, microbiostatics and microbiocidals.
 - ii) Which vitamin is important for synthesis of coagulation factor?
 - iii) Which antibiotic can produce ototoxicity?
 - iv) Provide examples of first generation cephalosporin.
 - v) Give an example of anti-diuretic drug.
 - vi) What is the medicinal use of sulphones?
- B) Write significance of co-trimoxazole. **(03)**
- Q.2** Discuss malarial cycle. Write the pharmacotherapy for malaria. **(12)**
- Q.3** A) Discuss the mechanism of action, adverse effects and uses of antiviral drugs. **(07)**
B) Add a note on plasma expanders. **(05)**
- Q.4** Write short notes on **ANY THREE** of the following: **(12)**
- a) Immunosuppressants
 - b) Chemotherapy of amoebiasis
 - c) Diuretics
 - d) Classify penicillin antibiotics and give an account on extended spectrum penicillin
 - e) Gray baby syndrome

SECTION – II

- Q.5** A) Attempt **ANY FOUR** of the following : **(08)**
- i) Enlist types of immunotherapeutics.
 - ii) What is a palindromic DNA sequence?
 - iii) Give principal difference between endo and exo-nuclease.
 - iv) What are selection markers on a plasmid vector?
 - v) Write the note on Prokaryotic genetic complement?
 - vi) What is the function of topoisomerase?
- B) Explain frame-shift mutation. **(03)**

PTO

- Q.6** Describe transcription and translation. (12)
- Q.7** A) Discuss in details OECD guidelines for acute oral toxicity. (07)
B) Write importance of splicing of RNA. (05)
- Q.8** Write short notes on **ANY THREE** of the following: (12)
- a) Explain key steps involved in production of recombinant protein.
 - b) Explain primary and secondary metabolites.
 - c) Write clinical application of gene therapy.
 - d) What are GPCRs? How the GPCR Signaling operates?
 - e) What is significance of prophase of meiotic division?
