SLR-TV – 33

Seat No.	

Set P

B.Pharm (Sem. – V) (New CBCS) Examination, 2018
MEDICINAL CHEMISTRY – I

Day and Date : Wednesday, 12-12-2018 Max. Marks : 70
Time : 10.30 a.m. to 1.30 p.m.

1. Multiple choice questions : **(15×1 =15 Marks)**

1) Metabolism is mainly observed in _____
   A) Liver B) Heart
   C) Brain D) None of these

2) Chloropropamide is synthesized from _____
   A) Chlorobenzene B) Benzene
   C) Aniline D) None of these

3) For non-volatile drug according to ferguson principle relative super saturation
   A) St/so B) Pt/po C) So/st D) None

4) Metronidazole having efficacy due to _____ group, this participates in endogenous reduction process.
   A) Nitro B) Amino
   C) Alkyl D) None of these

5) Mannitol is showing action by _____ Phenomenon.
   A) Osmosis B) Reverse osmosis
   C) Both A) and B) D) None of these

6) _____ drug inhibits protein synthesis.
   A) Emetine B) Acetazolamide
   C) Quinine D) Paracetamol

7) Paton and Rang proposed _____ theory.
   A) Occupation theory B) Rate theory
   C) Induced fit theory D) Activation – Aggregation theory

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8) B-lactam antibiotics inhibit the synthesis by inhibiting

A) Peptoglycan B) Peptidoglycan

C) Polypeptide D) Peptidase

9) Identify the high celling diuretics of below

A) Mannitol B) Furosemide

C) Spirinolactone D) Acetazolamide

10) _____ drug is not effective against systemic amoebiasis.

A) Metronidazole B) Chloroquine

C) Diloxanide furoate D) Dihydroemetin

11) Niclosamide is used in the treatment of

A) Cestode B) Nematode

C) Trematode D) All of the above

12) The heterocyclic ring is present in thiabendazole is

A) Benthiazale B) Thiazole

C) Benzimidazole D) Furan

13) Penicillin on degradation in alkaline medium forms

A) Penillic acid B) Penicillic acid

C) Penicilloic acid D) Penicilenic acid

14) Bacampacillin is _____

A) Active drug B) Prodrug

C) Active metabolite D) None of these

15) One of the following drug is belongs to Carbonic Anhydrase Inhibitors class

A) Spironlactone B) Mannitol

C) Methazolamide D) Xipamide

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2. Answer **any five** of the following questions : **(5×5=25)**
   1) Write a note on Bio-isosterism.
   2) Discuss in details of drug receptor interaction.
   3) Write SAR and MOA of sulphonyl urease.
   4) Write the synthesis of Niclosamide Mebendazole.
   5) Draw the structure, chemical name of Metronidazole, Niridazole, Mebendazole.
   6) Define Diuretics. Explain in details of Thiazide Diuretics.

3. Answer **any three** of the following questions : **(3×10=30)**
   1) Define and classify antibiotics with suitable e.g. Write MOA and SAR of B-lactam antibiotics.
   2) Write a note on receptor and biological response.
   3) List out the Phase I and Phase II metabolism process. Explain in details Phase II reaction.
   4) Discuss conversion to Tetracycline to
      a) 4-epitetracyclin by epimerization
      b) Anhydrotetracyclin
      c) Isotetracyclin
      d) Chelate comp

      Give MOA of Tetracycline.

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