

Total No. of printed pages = 3

**PY 132705**

Roll No. of candidate 

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**2021**

**B,Pharm. 7<sup>th</sup> Semester (Repeaters) Examination**

**(Medicinal Chemistry – III)**

**PHARMACEUTICAL CHEMISTRY – VII**

**(Old Regulation)**

Full Marks – 100

Time – Three hours

The figures in the margin indicate full marks  
for the questions.

Answer Q.No. 1 and *six* from the rest.

1. Multiple choice questions : (10 × 1 = 10)
- (i) What are xenobiotics?
    - (a) Another form of antibiotics
    - (b) A form of nutrient
    - (c) Nutrients which kill the gut harmful microbes
    - (d) Anything that is not nutrients and enters the body through different routes
  - (ii) Which of the following is an antineoplastic agent?
    - (a) Chlorambucil
    - (b) 5-Flurouracil
    - (c) Methotrexate
    - (d) All of the above
  - (iii) Which of the following is the correct decreasing order of drug metabolism?
    - (a) Liver> lungs> kidneys> intestine> placenta> skin> adrenals
    - (b) Liver> lungs> kidneys> intestine> adrenals > placenta> skin
    - (c) Liver> kidneys> lungs> intestine> placenta> adrenals > skin
    - (d) Liver> lungs> intestine> kidneys> placenta> adrenals > skin

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- (iv) The most important dose dependent toxicity of dapsons is
- (a) Methemoglobinemia
  - (b) Haemolysis
  - (c) Hepatitis
  - (d) Dermatitis
- (v) Choose the azole antifungal drug which is used only topically;
- (a) Clotrimazole
  - (b) Itraconazole
  - (c) Econazole
  - (d) All of the above
- (vi) Which of the following is not antimalarial drug?
- (a) Quinine
  - (b) Chloroquine
  - (c) Pentamidine
  - (d) Primaquine
- (vii) Metronidazole is used for
- (a) Round worm infestation
  - (b) Hook worm infestation
  - (c) Kala-azar
  - (d) Giardiasis
- (viii) Sulfonamide used in treatment of ulcerative colitis is
- (a) Sulfasalazine
  - (b) Sulfacetamide
  - (c) Silver sulfadiazine
  - (d) Mafenide
- (ix) Which of the following is an Anti-viral including antiHIV agent?
- (a) Zidovudine
  - (b) Methicillin
  - (c) Amphotericin
  - (d) None of the above
- (x) Amphotericin is
- (a) Natural Penicillin
  - (b) Acid Resistant Penicillin
  - (c) Semisynthetic penicillin
  - (d) None of the above

2. (a) What are Beta-lactam antibiotics? What are the common side effects observed in Beta lactam antibiotics? Classify it with example of each class with structure. (2+ 2 + 5 = 9)
- (b) Explain the SAR of Tetracyclines. (6)
3. Classify antiprotozoal drugs with example. Draw the structure and write down the uses of any one drug from each category. (5 + 10 = 15)
4. Synthesize the following drugs (any *three*): (3 × 5 = 15)
- (a) Metronidazole
- (b) 5-fluoro uracil
- (c) Ciprofloxacin
- (d) Nalidixic acid
- (e) Doxycycline.
5. Describe the mechanism of action of hypoglycaemic agents. Write down the synthesis of Glibenclamide, Tolbutamide. (5 + 10 = 15)
6. Classify antineoplastic agents citing example. Write down the synthesis and uses of Methotrexate, Thiotepea. (5 + 10 = 15)
7. Write in details about Immunostimulants and Immunosuppressive agents with structure and uses. (7.5 + 7.5 = 15)
8. Explain in details with structure about antiseptic, disinfectant and anti HIV drugs. (15)
9. (a) Define Pro drug. What is the difference between anabolism and catabolism? (1 + 2 = 3)
- (b) Describe the Phase-I and Phase-II metabolism. (12)
10. (a) Discuss mechanism of action of Chloroquine, Primaquine, Dapsone, Isoniazid. (8)
- (b) Write a note on Antileishmanial drug. (7)
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