

Total No. of printed pages = 3

PY 132705

Roll No. of candidate

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2021

B.Pharm. 7th Semester (Repeaters) End-Term Examination
Pharmacy
PHARMACEUTICAL CHEMISTRY - VII (MEDICINAL CHEMISTRY - III)
(Old Regulation)

Full Marks - 100

Time - Three hours

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

Answer question No. 1 and any six from the rest.

1. Multiple Choice questions : (10 × 1 = 10)
- (i) Which of the following is antimalarial drug?
- (a) Tinidazole
 - (b) Chloroquine
 - (c) Isoniazide
 - (d) All of the above
- (ii) Greseofulvin is
- (a) Antiviral drug
 - (b) Antifungal drug
 - (c) Antileishmanial drug
 - (d) None of the above
- (iii) The following is an acid resistant penicillin
- (a) Penicillin-V
 - (b) Methicillin
 - (c) Amphotericin
 - (d) Penicillin - G

[Turn over

- (iv) Mebendazole is used as
- (a) Antifungal
 - (b) Anthelmintic
 - (c) Antiviral
 - (d) None of the above
- (v) Which of the following will be a pharmaceutical application of prodrugs?
- (a) Enhancement of bioavailability
 - (b) Reduction of toxicity
 - (c) Improvement of odour
 - (d) Site-specific drug delivery
- (vi) 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
- (vii) Following are the Phase I reactions except _____
- (a) Oxidative reactions
 - (b) Hydrolytic reactions
 - (c) Reductive reactions
 - (d) Sulphide reactions
- (viii) Alkylating agents exert cytotoxic action by inducing:
- (a) Breakage of DNA strand
 - (b) Cross linking of DNA strands
 - (c) Abnormal pairing of purine and pyrimidine bases
 - (d) All of the above
- (ix) The most important target of action of chlorambucil is:
- (a) Myeloid tissue
 - (b) Lymphoid tissue
 - (c) Neural tissue
 - (d) Skin

- (x) Zidovudine is used as
- Antimalarial drug
 - Antibacterial drug
 - Antifungal drug
 - Antiviral drug
2. Define anabolism and catabolism. Explain different functionalization reaction of metabolism. (5+10=15)
3. Classify prodrug citing example of each category with structure and write down its pharmaceutical application. (10+5=15)
4. Explain the Structure activity relationship of sulphonamides. Write down the synthesis of sulphamethoxazole, sulphadiazine and sulphacetamide. (6+9=15)
5. Write a note on broad spectrum antibiotics and beta lactam antibiotics with example. (7.5+7.5=15)
6. Classify antiprotozoal agents. Write down the mode of action and synthesis of Chloroquine and Primaquine. (3+6+6=15)
7. Write down the synthesis of the following drugs: (3×5=15)
- Ketoconazole
 - Isoniazide
 - Metronidazole
8. Define the term anthelmintics. Write down the mode of action and synthesis of Mebendazole and Niclosamide. (2+6+7=15)
9. Classify antineoplastic agent citing example. Explain the SAR of any two category of antineoplastic drug. (5+10=15)
10. Explain in details about thyroid and antithyroid drugs citing example with structure. (15)