

Enrolment No. _____

PARUL UNIVERSITY
PARUL INSTITUTE OF PHARMACY
B.PHARM SIXTH SEMESTER

SECOND INTERNAL THEORY EXAMINATION: 2020-21

Subject Name: Medicinal chemistry-III

Subject Code: BP601T

Time:02:00-03:15pm

Date: 08/03/21

Total Marks: 30

Instructions:

1. Figures to the right indicate full marks.
2. Make suitable assumptions wherever necessary.

Q.1 Multiple Choice Questions:

[10]

(1) Triazole ring is present in

01

(a) Quinacrine

(b) Ribavarin

(c) Mefloquine

(d) Idoxuridine

(2) Which group in metronidazole is reduced by protozoan that bind to DNA leads to parasite death

01

(a) Nitro

(b) Alcohol

(c) Alkyl

(d) None of the above

(3) Which enzyme are targets for quinolones antibacterial agents?

01

(a) Protease

(b) Topoisomerase

(b) Kinase

(d) Transpeptidase

(4) The IUPAC of Pamaquine is

01

(a) 6-chloro-N-[5-(diethylamino)pentan-2-yl]quinolin-1-amine

(b) 7-chloro-N-[5-(diethylamino)pentan-2-yl]quinolin-4-amine

(c) 7-chloro-N-[4-(diethylamino)-1-methyl-butyl]quinolin-4-amine

(d) 6-chloro-N-[4-(diethylamino)-1-methyl-butyl]quinolin-1-amine

(5) Pyrimethamine containring

01

(a) Pyridine

(b) Pyrimidine

(c) Quinoline

(d) Pyrrolidine

- (6) Name of the drug containing pyrazine ring 01
(a) Para amino salicylic acid (b) Pyrazinamide
(c) Isoniazide (d) Ethambutol
- (7) INH and pyridoxine form a complex called 01
(a) Hyrazone (b) Horazone
(c) B complex (d) Chillate
- (8) Which class of antifungal drugs work by inhibiting squalene epoxidase? 01
(a) Ethiocandins (b) Allylamines
(c) Polyenes (d) None of the above
- (9) Which of the following is not an imidazole antifungal? 01
(a) Clotrimazole (b) Sertaconazole
(c) Tioconazole (d) Teraconazole
- (10) All are uses of metronidazole except 01
(a) Amoebiasis (b) Giardiasis
(c) Trichomonas (d) Malaria

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Q.2 Long Answers:(Any One)

- (1) Explain the life cycle of malaria. Write in detail about 4-amino quinolines covering the structures, mechanism, SAR and uses? **10**
- (2) a) Write on azoles antifungal agents. **10**
b) Discuss first line anti-TB drugs.

Q.3 Short Answers:(Any Two)

- (1) Give classification of antiviral drug along with structure of one drug in each class? Add a note on synthesis of Acyclovir. **05**
- (2) Write mechanism of action and SAR of Quinolones as antibacterial agents. **05**
- (3) Give the classification of anthelmintics. Write synthesis of Diethylcarbamazine. **05**
