

Ref. No.: Ex/Pharm/T/423/2018,

Dated: 17/04/2018

B. Pharm. 4th Year 2nd Semester Examination 2018

Time: 3 hours

Subject: Pharmacology-IV

Full Marks: 100

GROUP - A

(Answer any *five* questions)

1. Define and classify bioassay. Mention its advantages and disadvantages. Write in short about the bioassay of acetylcholine. 6+4+10=20
2. Inside the blood vessel why the blood clot does not become too large. Shortly illustrate the role of fibrinolytic system. Write down the mechanism of High Molecular Weight Heparin.
3. Write notes on- 2X10=20
 - a. Quantal Bioassay
 - b. Antiplatelet drugs

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Use separate answer sheet and clearly mention the question number and part number for each answer.

GROUP - B

Q1) (a) Explain how drugs like – Nifurtimox, Pentamidine and Melarsoprol act in the management of Trypanosomiasis. (03X03=09)

(b) Explain the correlation of Gal/GalNAc and use of nitroimidazole with incidences of Amebiasis.

(02 + 05 = 07)

(c) Write in brief about the virulence factors being linked with the ability of *E. histolytica* to invade interglandular epithelium. (04)

Q2)

(a) Why G6PD test is mandatory for Primaquine therapy in malaria? (05)

(b) Explain the antifungal activity of Flucytosine. (05)

(c) When and why shivering occurs in Malarial fever, explain with the help of the life cycle of malarial parasite? (05)

(e) Critically discuss the merit or demerit for the anti-fungal combination of Amphotericin B and ~~Metronidazole~~ Metronidazole. (05)

Q3) (a) Write down the classification for Fungal infection based both on Anatomical location and Epidemiology (05)

(b) Write down the mechanism of action of Metronidazole in amoebiasis. (05)

(c) Write down the antifungal action of Caspofungin and Griseofulvin. (5+5)