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Total No. of Questions : 6]

P2076

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M.Sc. (Semester - IV) DRUG CHEMISTRY CHD-462 : Advanced Medicinal Chemistry (2013 Pattern)

Time : 3 Hours]

Instructions to the candidates:

- 1) All questions are compulsory.
- 2) Answers to the two sections should be written in separate answer books.
- 3) Figures to the right indicate full marks.

SECTION - I

Q1) Answer any three of the following :

- a) Give a brief account of cell wall synthesis and discuss the mechanism of action of β -lactam antibiotics.
- b) Discuss in brief protein biosynthesis. Explain the steps where the antibiotics act with suitable example.
- c) Discuss in brief the development of quinolone antibiotics.
- d) Give a brief commentory on carbapenems.

Q2) Answer any two of the following :

- a) Explain in brief the role of following classes of drugs in cancer treatment giving their mechanism of action.
 - i) Alkylating agents
 - ii) Plant products
 - iii) Antimetabolites
- b) Explain in brief the biological basis of depression. What are the different approaches to treat depression.

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[Total No. of Pages : 3

[Max. Marks : 50

SEAT No. :

[9]

[10]

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- c) Discuss in brief common viral infections. Explain how viruses multiply in the host tissue. Discuss the role of acyclovir and ribavirin in antifungal therapy.
- **Q3**) Discuss in brief any three of the following :
 - a) Drug Resistance
 - b) Sedatives
 - c) Antifungal agents
 - d) Antimitotic agents

SECTION - II

Q4) Answer any three of the following :

- a) Explain in brief NIDDM and IDDM. Discuss the management of NIDDM.
- b) Explain the life cycle of plasmodium. Discuss the various strategies to control and treat malaria.
- c) Discuss in brief ulcers and their treatment.
- d) What are mycobacterial infections? How do mycobacteria differ from other bacteria. Discuss any two classes of antitubercular agents.

Q5) Answer any two of the following :

- a) How does the endocrine system maintain homeostasis? Explain the role of thyroxine, calcitonin, parathyroid hormone and aldosterone.
- b) Discuss the management of the following.
 - i) Myocardial Infarction
 - ii) Hypertension
 - iii) Congestive Heart failure.
- c) Discuss the following and their remedies.
 - i) Pain
 - ii) Emesis
 - iii) Constipation

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Q6) Give the mode of action and uses of the following drugs (any three): [6]

- a) Diclofenac
- b) Valporic acid
- c) Doxorubicin
- d) Indomethacin
- e) Cefaclor

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