

STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI 600 086
(For candidates admitted from the academic year 2004-05 & thereafter)

SUBJECT CODE: CH/MO/PH64

B.Sc. DEGREE EXAMINATION, APRIL 2008
BRANCH IV - CHEMISTRY
SIXTH SEMESTER

Reg. No

COURSE : MAJOR-OPTIONAL
PAPER : PHARMACEUTICAL CHEMISTRY
TIME : 30 MINUTES
MAX. MARKS : 30

SECTION – A

TO BE ANSWERED ON THE QUESTION PAPER ITSELF.

ANSWER ALL THE QUESTIONS.

(30x1=30)

I. Choose the correct answer:

- Which one of the following is an insect borne disease?
a) Cholera b) Influenza c) Jaundice d) Malaria
- Aluminium Hydroxide gel is used as an
a) antiseptic b) anaesthetic c) antacid d) antiviral
- Which element is essential for the growth of teeth?
a) Copper b) Iron c) Iodine d) Calcium
- The number of Asymmetric carbon atoms in chloramphenicol is
a) 1 b) 3 c) 2 d) 4
- Crystal violet is a/an
a) azo dye b) mordant dye c) alizarin dye d) triphenyl methane dye
- Which one of the following is a local anaesthetic
a) ether b) chloroform c) ethyl chloride d) cocaine

II. State whether true or false:

- Toxicology is the study of less toxic effects of chemicals.
- Phenformin is used in the treatment of diabetes.
- Sulpha drug is an antibiotic.
- Methyl salicylate is the chemical name for aspirin.
- The normal value of blood pressure is $110/80$.
- Sodium nitroprusside is used in treating myocardial infarction.

III Match the following:

- | | | |
|---------------------|---|---------------------------|
| 13. Vibrio cholare | - | broad spectrum antibiotic |
| 14. Digoxin | - | Narcotic |
| 15. Chloramphenicol | - | Sedatives |
| 16. Chloramines | - | bacteria |
| 17. Morphine | - | Cardiac glycosides |
| 18. Barbiturates | - | antiseptics |
| | - | anaesthetics |

IV. Fill in the blanks:

19. The metal atom present in Haem is _____.
20. _____ is used in the treatment of liver disorders.
21. Papaverine is used as a _____.
22. Amaranth is used as _____.
23. The plant product used for treating cancer is _____.
24. _____ is used as a tranquilizer.

V. Answer the following in one or two sentences:

25. What is mutation?
26. Mention any two inorganic compounds used in pharmacy.
27. Write any two uses of tetracyclines.
28. How is malaria caused and mention the drug used for treatment of malaria.
29. Define antipyretic analgesics.
30. What is an anti anginal agent?



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MAX. MARKS : 70

SECTION – B

ANSWER ANY FIVE QUESTIONS:

(5x6=30)

1. Mention the medicinal uses of
(i) Adathoda (ii) mangifera (iii) ficus (iv) Solanum trilobatum
2. How are the following prepared?
(i) Asprin (ii) Sulphamethoxazole
3. Write the biological role of Calcium.
4. What are anti-neoplastic agents and write a note on it.
5. Write a note on the causes, symptoms, treatment for Jaundice and plague.
6. What is anaemia? Write the causes and the drugs used for treating it.
7. Give an account on the Salicylic acid derivatives used as analgesics.

SECTION – C

ANSWER ANY TWO QUESTIONS:

(2x20=40)

8. a) Define the following terms:
(i) antimetabolites (ii) Bacteria (iii) Virus
(iv) Toxicology (v) Chemotherapy
b) Give a brief account on the intra venous anaesthetics
9. a) Write briefly about Antianginal agents and Vasodilators
b) Discuss the causes, symptoms and treatment of diabetes.
10. a) What antipsychotic drugs. Give examples and write briefly about hypnotics and sedatives.
b) Write a note on flavouring agents and ointment bases.
11. a) What is blood pressure and write a note on the anti-hypertensive agents.
b) Discuss the following: (i) the mechanism of action of sulpha drugs
(ii) SAR of Morphine.
