

STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI-86
(For candidates admitted during the academic year 2007-08)

SUBJECT CODE: CH/MO/PH34

B.Sc. DEGREE EXAMINATION, NOVEMBER 2008
BRANCH IV- CHEMISTRY
THIRD SEMESTER

REG.NO

COURSE : MAJOR OPTIONAL

PAPER : PHARMACEUTICAL CHEMISTRY

TIME : 30 MINUTES

MAX.MARKS : 30

SECTION – A

(30x1=30)

ANSWER ON THE QUESTION PAPER ITSELF.

Answer all the questions.

1. The study of the biological and therapeutic effect of drugs is
 - a) Pharmacy
 - b) Pharmacodynamics
 - c) Pharmacology
 - d) Medicinal Chemistry
2. The drugs commonly used in the treatment of malignant diseases is
 - a) Anticancer
 - b) Antiviral agents
 - c) Chemotherapy
 - d) Antilepral agent
3. The disease characterized by the swelling of the legs or some other parts of the body is
 - a) Malaria
 - b) Filariasis
 - c) Plague
 - d) Diphtheria
4. The condition of anus veins elongate and protrude outside the anal canal is
 - a) Measles
 - b) Prolapse
 - c) Influenza
 - d) Dysentery
5. The instruments measuring blood pressure is
 - a) Pirani gauge
 - b) Sphygmomanometer
 - c) McLeod gauge
 - d) Barometer
6. _____ is used in the treatment of iron deficiency anemia
 - a) Histamine HCl
 - b) Pyridoxime HCl
 - c) Niacin HCl
 - d) Phenyl hydrazine HCl
7. The drug therapy used for disturbances of cardiac rhythm is
 - a) Antiarrhythmic drugs
 - b) Antinaemic drugs
 - c) Anticoagulant drugs
 - d) Antiallergic drugs
8. The reddish brown crystalline powder soluble in water and used in hypertension treatment.
 - a) Dipyridamole
 - b) Sodium nitroprusside
 - c) Nitrites
 - d) Tolazoline HCl
9. The drug derived from living matter or micro organism which either prevent the growth of other micro organism or destroy them
 - a) Antibiotics
 - b) Plasma
 - c) Bacteria
 - d) Hormone
10. The drug which cause depression of the activity of the central nervous system
 - a) Barbiturates
 - b) Penicillin
 - c) Quinidine
 - d) Biguanides

11. In pharmacy methyl nicotinate is used as

a) Vasodilator b) Antianemic drug
c) Anti hyper tension drug d) None of these
12. Which one is a sweetening agent?

a) Ethyl acetate b) Vannilin c) Methyl salicylate d)
Saccharin
13. Commercial source of insulin is the pancreas of

a) Pig b) Monkey c) Whale d) Elephant
14. Which structural isomer of hydroxy benzoic acid is pharmacologic active?

a) Ortho b) Para c) Meta d) Ortho and Para
15. Which one is a water retaining agent in creams and jellies?

a) Glycerol b) Hexanol c) Acetone d) DMSO

State whether True or False:

16. Caffeine is physiologically active, whereas hydroxyl caffeine does not show any physiological activity.
17. DMSO is hygroscopic in nature.
18. Diethyl stilbestrol is a synthetic estrogen used in hormone therapy.
19. Diuretics are drugs reduces systolic and diastolic pressure.
20. Sustained release formulations are intended for the maintenance of required blood level of the drug for longer duration.

Fill in the blanks:

21. _____ inhibit the synthesis of the bacterial cell wall, but does not interfere with the human tissue cell wall synthesis.
22. _____ is the study of the absorption, distribution, excretion and metabolism of drugs and their relationship to pharmacologic responses.
23. Amaranth is a reddish brown powder, used mainly as an _____ in medicine.
24. Thiopental sodium, . A yellowish white hygroscopic powder, used as an _____.
25. _____ are substances which interfere with blood coagulation.

Answer in one two lines:

26. What is Rideal – Walker coefficient ?
27. What is aluminium hydroxide gel?
28. What are the food sources for Iron?
29. What is diabetes? Give its classification.
30. What are the therapeutic applications of Crystal violet?

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TIME : 2½ HOURS

MAX.MARKS : 70

SECTION – B

(5x6=30)

Answer any five questions.

1. Write briefly about the treatment and prevention of water borne disease (any three diseases)
2. Discuss the biological role and deficiency of copper.
3. Describe the mechanism of blood coagulation, inside the blood vessels of the living body.
4. Explain the structure, properties and therapeutic was of chloramphencicol.
5. Write a note on the advantage and disadvantages of anesthetics chloroform and halothane.
6. Write a note on sweetening agents in pharmaceutical aids.
7. Give a detailed account on the sustained release of drugs.

SECTION – C

(2X20=40)

Answer any two questions.

8. Describe the structure activity relationship of morphine.
9. a) Discuss the various biological classification of drugs, give one example for each type.
b) Explain the terms (i) Pharmacology
(ii) Pharmacodynamics
10. a) Discuss briefly the medicinal properties of any five Indian medicinal plants.
b) Write a note on biological role and deficiency of Zinc.

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