

Reg. No. :

Code No. : 10487 E

Sub. Code : CSCH 41

B.Sc. (CBCS) DEGREE EXAMINATION,
APRIL 2024.

Fourth Semester

Chemistry

Skill Based Subject — PHARMACEUTICAL
CHEMISTRY

(For those who joined in July 2021–2022)

Time : Three hours

Maximum : 75 marks

PART A — ($10 \times 1 = 10$ marks)

Answer ALL questions.

Choose the correct answer.

Streptomycin is the drug used for

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|------------------|-----------------|
| (a) Tuberculosis | (b) Polio |
| (c) Ricket | (d) Brain fever |

Azidothiomidine acts against a virus which causes

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|-----------------|-------------|
| (a) Small pox | (b) Lepracy |
| (c) Chicken pox | (d) AIDS |

Penicillin is a/an

- (a) Antiseptic
- (b) Antibiotic
- (c) Sedative
- (d) Pain killer

Lysol and dettol are

- (a) Disinfectants
- (b) Antiseptics
- (c) Antipyretics
- (d) None

_____ is essential for the formation of bones and teeth.

- (a) Na
- (b) Zn
- (c) Ca
- (d) All

The functional group present in sulphonamide is

- (a) $-\text{SO}_3\text{H}$
- (b) $-\text{SO}_2\text{NH}_2$
- (c) $-\text{OH}$
- (d) $-\text{OCOCH}_3$

Cigarette smoking causes _____

- (a) Asthma
- (b) Diabetes
- (c) Anaemia
- (d) None

Diabetes is a condition of

- (a) deficiency of red cells in blood
- (b) raised level of glucose in blood
- (c) low level of glucose in blood
- (d) none of the above

Sodium bi carbonate is a/an

- (a) antacid
- (b) antiseptic
- (c) coagulant
- (d) none

Thulasi leaves contain

- (a) Eugenol
- (b) Methyl eugenol
- (c) Both (a) and (b)
- (d) None

PART B — ($5 \times 5 = 25$ marks)

Answer ALL questions choosing either (a) or (b).

Each answer should not exceed 250 words.

- (a) What are the precautions to be taken for treating a person affected by epileptic fits?

Or

- (b) Explain any two air-borne diseases and mention the preventive methods.

- (a) How are antibiotics classified? Give two examples each.

Or

(b) Draw the structure of the following :

(i) Chloro pheniramine

(ii) Diphen hydramine

(a) Describe absorption and excretion of drugs.

Or

(b) Describe the physiological function of K and Zn.

(a) Mention any five drugs used for the treatment of hypertension.

Or

(b) Discuss the causes and treatment of cancer.

(a) What is milk of magnesia? How is it prepared? Mention any two uses.

Or

(b) Mention any five Indian medicinal plants, and give two uses of them.

PART C — (5 × 8 = 40 marks)

Answer ALL questions choosing either (a) or (b).

Each answer should not exceed 600 words.

- (a) What are insect borne diseases? Give a brief account of the preventive measures and treatment of malaria.

Or

- (b) Discuss the following :

- (i) peptic ulcer
- (ii) epilepsy

- (a) Write a detailed note on analgesis. Mention the uses of aspirin and paracetamol.

Or

- (b) What is an antiseptic? Give two examples. Differentiate antiseptics and disinfectants.

- (a) Explain the different types of TDDS and write the merits of TDDS.

Or

- (b) Mention any four importance of Na and Ca.

- (a) Write note on diabetes. Mention the preventive methods and treatment of diabetes.

Or

- (b) (i) Mention the factors influencing hypertension.
(ii) Give the symptoms and causes of anaemia.

- (a) Describe the preparation and uses of

- (i) Aluminium hydroxide gel
(ii) Ferrous gluconate

Or

- (b) Mention the medicinal uses of Sembaruthi (hibiscus rose) and Adathoda (vasica).
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