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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 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer.

- Streptomycin is the drug used for  
(a) Tuberculosis      (b) Polio  
(c) Ricket      (d) Brain fever
- Azidothiomidine acts against a virus which causes  
(a) Small pox      (b) Leparcy  
(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

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9. Sodium bi carbonate is a/an .  
(a) antacid (b) antiseptic  
(c) coagulant (d) none
10. Thulasi leaves contain  
(a) Eugenol (b) Methyl euginol  
(c) Both (a) and (b) (d) None

PART B — (5 × 5 = 25 marks)

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

Each answer should not exceed 250 words.

11. (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.

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

Or

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- (b) Draw the structure of the following :

- (i) Chloro pheniramine  
(ii) Diphen hydramine

13. (a) Describe absorption and excretion of drugs.

Or

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

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

Or

- (b) Discuss the causes and treatment of cancer.

15. (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.

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PART C — (5 × 8 = 40 marks)

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

Each answer should not exceed 600 words.

16. (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

17. (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.

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

Or

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

19. (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.

20. (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).

