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Reg. No. :

**Code No. : 20292 E Sub. Code : JSCH 4 A/
SSCH 4 A**

B.Sc. (CBCS) DEGREE EXAMINATION, APRIL 2021.

Fourth Semester

Chemistry

Skill Based Subject — CHEMISTRY IN MEDICINE

(For those who joined in July 2016 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer.

1. Excess use of aspirin injection causes
 - (a) Mercury Poisoning
 - (b) Copper Poisoning
 - (c) Salicylate Poisoning
 - (d) None of the above

2. Rabies is caused due to
- (a) Snake bite (b) Dog bite
- (c) Insect bite (d) All the above
3. Wilson's disease arises due to
- (a) deficiency of Copper
- (b) excess of Copper
- (c) deficiency of Iron
- (d) Excess of Iron
4. An average adult requires _____ g of Potassium per day.
- (a) 1 g (b) 2 g
- (c) 3 g (d) 4 g
5. The drug given for the treatment of malaria is
- (a) Penicillin
- (b) Tetracyclin
- (c) Chloroquin
- (d) Ampicillin

6. Diphtheria is a _____ disease.
- (a) Air-borne
 - (b) Water-borne
 - (c) Both air and water
 - (d) None of the above
7. During Dengu fever the platelet count is
- (a) Increased
 - (b) Decreased
 - (c) Not at all affected
 - (d) Increased exponentially
8. Glucose Tolerance Test is a test to determine the
- (a) Urine Sugar Value
 - (b) Blood Sugar Value
 - (c) Both Urine and Blood Sugar
 - (d) None of the above

9. Vitamin used in the treatment of Rickets in children is

- (a) Vitamin 'A' (b) Vitamin 'D'
(c) Vitamin 'B' (d) Vitamin 'C'

10. Cyanocobalamin means

- (a) Vitamin B₆ (b) Vitamin B₂
(c) Vitamin B₁₂ (d) All the above

PART B — (5 × 5 = 25 marks)

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

Each answer should not exceed 250 words.

11. (a) Explain the important rules of first aid.

Or

(b) List out the antidotes for different types of poisoning.

12. (a) Explain the Biological role of Iodine in detail.

Or

- (b) Write short notes on :

(i) Alum

(ii) Ferrous Gluconate.

13. (a) Explain Leprosy with the symptoms and treatment.

Or

- (b) Write short notes on Nervous disorder diseases.

14. (a) Discuss in detail about white blood corpuscles.

Or

- (b) Define Hypertension? Bring out the reasons and steps to prevent hypertension.

15. (a) Write notes on Vitamin 'D'.

Or

- (b) Explain the classification of Vitamins in detail.

PART C — ($5 \times 8 = 40$ marks)

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

Each answer should not exceed 600 words.

16. (a) Explain the first aid treatment for fractures and burns.

Or

- (b) Explain the first aid treatment for bleeding and fainting.

17. (a) Explain the biological role of Potassium in detail.

Or

- (b) Explain the biological role of Copper in detail.

18. (a) Explain the prevention and treatment of water-borne diseases.

Or

- (b) Explain the prevention and treatment of air-borne diseases.

19. (a) How is Glucose in serum determined by Folin and Wu's method?

Or

- (b) Explain the determination of serum cholesterol by Sackett's method.

20. (a) Write notes on :

- (i) Vitamin B₂
- (ii) Vitamin B₆
- (iii) Vitamin B₁₂

Or

- (b) Explain :

- (i) Vitamin 'A'
- (ii) Vitamin 'C'
