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Reg. No. :

Code No. : 20016 E Sub. Code : SSCH 4 A/
ASCH 41

B.Sc. (CBCS) DEGREE EXAMINATION,
NOVEMBER 2022.

Fourth Semester

Chemistry

Skill Based Subject — CHEMISTRY IN MEDICINE

(For those who joined in July 2017 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. Which of the following is used to treat bruises?

- (a) ice therapy
- (b) immobilize the bone
- (c) shock treatment
- (d) cast

2. Which one of the following is a kind of treatment for bleeding?

- (a) apply direct pressure on the cut
- (b) make sure for breathing
- (c) immobilize the bones
- (d) check pulse frequently

3. An example for an antacid?

- (a) aluminium acetate
- (b) aluminium hydroxide
- (c) ferrous fumarate
- (d) aluminium chloride

4. Insect bites will be treated using

- (a) ferrous fumarate
- (b) aluminium hydroxide
- (c) aluminium acetate
- (d) aluminium chloride

5. Which of the following is an airborne disease?

- (a) typhoid (b) cholera
- (c) epilepsy (d) diphtheria

6. Killing the *H. Pylori* bacteria is a treatment for
 - (a) tuber culosis (b) peptic ulcer
 - (c) common cold (d) leprosy
7. Which is the rarest blood group?
 - (a) AB(+) (b) AB(–)
 - (c) AB (d) A(–)
8. Which one of the following is usually detected measuring hemoglobin?
 - (a) diabetes (b) anaemia
 - (c) blood pressure (d) hypertension
9. Which one of the following food mainly contains vitamin B complex?
 - (a) liver and kidney (b) cod liver oil
 - (c) dark green (d) spinach
10. What is the deficiency disease of vitamin B complex?
 - (a) cystic fibrosis (b) anaemia
 - (c) beriberi (d) premature infants

PART B — (5 × 5 = 25 marks)

Answer ALL questions choosing either (a) or (b).
Each answer should not exceed 250 words.

11. (a) Write a note on the important rules in first aid for accidents.
Or
(b) Explain salicylate poisoning.
12. (a) Explain properties and uses of alum.
Or
(b) Describe biological importance of sodium.
13. (a) Discuss the prevention method for malaria.
Or
(b) Write a note on nervous disorder.
14. (a) Discuss on the composition of blood.
Or
(b) How will you estimate the red blood cells?
15. (a) Write a note on the classifications of vitamins.
Or
(b) Explain treatment for skin diseases.

PART C — (5 × 8 = 40 marks)

Answer ALL questions choosing either (a) or (b).
Each answer should not exceed 600 words.

16. (a) Discuss the following : first aid for (i) cuts
(ii) bruises (iii) bleeding (iv) fracture.

Or

- (b) Explain : alkaloid poisoning and its symptoms.

17. (a) Discuss on the following :

- (i) uses of aluminium hydroxide
- (ii) uses of dried aluminium hydroxide gel.

Or

- (b) Discuss on the following :

- (i) Biological importance of potassium
- (ii) Uses of ferrous sulphate.

18. (a) Discuss the prevention and treatment of the following :

- (i) influenza
- (ii) mumps.

Or

- (b) Write a note on respiratory disorder.

19. (a) Explain : determination of blood groups and matching.

Or

- (b) Discuss on the following :

- (i) Estimation of glucose in urine
- (ii) Diagnostic test for sugar in urine.

20. (a) Write down the sources and deficiency diseases of vitamins D, E and K.

Or

- (b) Discuss the following :

- (i) treatment of ulcers
- (ii) therapeutic uses.