| | Enrollment | lment No: Exam Seat No: | | | | | | | | |
|-----|---|--------------------------------|--|---------------------------------|-----------|---|--|--|--|--|
| | C. U. SHAH UNIVERSITY | | | | | | | | | |
| | | Winter Examination-2021 | | | | | | | | |
| | Subject Name : Nutrition & Biochemistry | | | | | | | | | |
| | Subject Code: 4NS01NUB1 | | | Branch: B.Sc. (Nursing) | | | | | | |
| | Year : 1 | Date : 07 | /12/2021 | Time: 02:00 To 05:00 | Marks: 75 | | | | | |
| Q-1 | (2) Inst (3) Dra (4) Ass | ructions wri | CTION-A (NUTRITION) | - | (05) | | | | | |
| | a) W | a. b. c. | following is the Tachycardia Restlessness Thirst Poor skin turge | e first sign of dehydration | | 1 | | | | |
| | b) O | ne of the fa a. b. c. | _ | mins involved in coagulation is | S | 1 | | | | |
| | c) M | lurasmus od a. | Calorie Protein | ficiency of | | 1 | | | | |



What is Chyme
a. Food enters the Mouth

c. a and b both

d. None

a. Ferritineb. Transferrinc. Apoferrind. None of above

Storege from of Iron is

d)

e)

- b. Food reaching the Stomach
- c. Food entering the Duodenum
- d. Food reaching the Rectum



1

1

Attempt any one questions from Q-2 to Q-3:

| Q-2 | | Attempt all questions | (15) |
|-----|------------|--|-------------|
| | a. | Explain the digestion and absorption of carbohydrates. | 10 |
| | b. | List the functions and characteristics of carbohydrates. | 05 |
| Q-3 | | Discuss about Protein Energy Malnutrition in detail. | (15) |
| Q-4 | | Write notes on any five from A to G: | (25) |
| | A | Vitamin – A deficiency | 5 |
| | В | Principles of menu planning Factors affecting food and nutrition intake. | 5 5 5 |
| | C | 5 | |
| | D | Enzymes of clinical importance | 5 |
| | E | Types of preservatives. | 5 5 5 |
| | F | Define BMR. What are the factors affecting BMR? | 5 |
| | G | Discuss the role of nutrition in maintaining health. | 5 |
| | | SECTION-B (BIOCHEMISTRY) | |
| Q-5 | | Attempt the following questions: | (05) |
| | a) | Which of the following is a keto triose | 1 |
| | | e. Dihydroxyacetone | |
| | | f. Glyceraldehyde | |
| | | g. Ribulose | |
| | • ` | h. Erythrose | |
| | b) | The general chemical formula of carbohydrate is | 1 |
| | | a. $(CH_2O)n$ | |
| | | b. (CH ₂ O) ₂ n | |
| | | c. (CHO)n | |
| | a) | d. CnH ₂ nO Which of the following is an alpha lectors | 1 |
| | c) | Which of the following is an alpha lactone a. Vit A | 1 |
| | | a. Vit A b. Vit. C | |
| | | c. Vit. D | |
| | | d. Vit.K | |
| | d) | Water is | 1 |
| | u) | a. Polar solvent | 1 |
| | | b. Non polar silvent | |
| | | c. An amphipathic solvent | |
| | | d. Nonpolar uncharged solvent | |
| | e) | The H-O-H bond angle in water molecule is | 1 |
| | -/ | e. 104.0° | |
| | | f. 104.5° | |
| | | g. 105.0° | |
| | | h. 105.5 ⁰ | |



Attempt any one questions from Q-6 to Q-7:

| | a b | Attempt all questions Describe the process of glycolysis. Explain How many ATP molecules are formed in anaerobic and aerobic glycolysis | (10) 5 5 |
|-----|--------------|---|----------------|
| Q-7 | | What is Diabetes mellitus? Explain the hormonal regulation of glucose | (10) |
| Q-8 | | Attempt any three questions from A to E: | |
| | A | Lipoproteins and their functions. | 5 |
| | В | Metabolic Acidosis. | 5 |
| | C | Urea cycle | 5 |
| | D | Gout disease | 5 |
| | \mathbf{E} | t-RNA structure | 5 |

