

B.SC. FOOD SCIENCE & TECHNOLOGY
SEMESTER-1ST
PRINCIPLES OF HUMAN NUTRITION
BFST-103

Duration: 3 Hrs.

Marks: 70

Part : A (Objective) = 20

Part : B (Descriptive) = 50

[PART-B : Descriptive]

Duration: 2 Hrs. 40 Mins.

Marks: 50

[Answer question no. One (1) & any four (4) from the rest]

1. Define Nutrition. Give examples of nutritional disorders along with their clinical symptoms and prevention. Write the beneficial roles of Dietary fibres in human health. 2+4+4=+10
2. What is Digestion and digestive juices? Write the digestion of carbohydrate and protein in human body. Explain with proper diagram. 2+4+4=10
3. What is Translation? Write the biosynthesis of protein in eukaryotic cell. Explain with diagram. 2+8=10
4. What do you mean by deamination of amino acid? Explain. Write the classification of amino acids. 4+6=10
5. Explain Food group. How does food guide pyramid help in planning a balanced diet? Write the ICMR health guidelines 3+3+4=10
6. What is incomplete protein? Give examples. Write the classification of amino acids based on their structure and function in the body. 3+6=10
7. Write short notes on – (a) Coronary heart disease 5+5=10
(b) Lactose and glucose Intolerance
8. Write the biochemical functions of calcium (Ca) and iron(Fe). Write the absorption of iron in human body. 10

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[PART-A : Objective]

Choose the correct answer from the following :

1X20=20

1. Bond angle of water is-
 - a. 104.5 degree
 - b. 100.5 degree
 - c. 95 degree
 - d. None of the above
2. Which of the following is a monosaccharide?
 - a. Lactose
 - b. Fructose
 - c. Galactose
 - d. Glucose
3. The full form of MOFPI is-
 - a. Ministry of Food production of India
 - b. Ministry of Food Processing Industries
 - c. Both
 - d. None
4. Which of the following is an example of incomplete protein?
 - a. Zein
 - b. Albumin
 - c. Both
 - d. None
5. Full form of ICMR is-
 - a. Indian council of medical research
 - b. Indian council of medicinal research
 - c. International council of medicinal research
 - d. None of the above
6. Inulin is
 - a. homopolysaccharide
 - b. heteropolysaccharide
 - c. Both
 - d. None
7. Aspartame is
 - a. Natural sweetener
 - b. Artificial sweetener
 - c. Emulsifier
 - d. None of the above
8. Lipid is digested by
 - a. Pepsin
 - b. Renine
 - c. Lipase
 - d. All of the above
9. Peristalsis is
 - a. Movement of blood in human body
 - b. Movement of food in human body
 - c. Bowl movement
 - d. None
10. The only sugar present in milk is
 - a. Glucose
 - b. Lactose
 - c. Fructose
 - d. mannose
11. Which one of the following is basic amino acid
 - a. Tryptophan
 - b. Histidine
 - c. Both
 - d. None
12. Which of the following is essential amino acid
 - a. Arachidonic acid
 - b. Linolenic acid
 - c. Acetic acid
 - d. None
13. BMR stands for-
 - a. Basal metabolic rate
 - b. Body metabolic rate
 - c. Both
 - d. None
14. Hyaluronic acid is
 - a. Mucopolysaccharide
 - b. Protein
 - c. Lipid
 - d. None

15. Kwashiorkor disease is caused by-

- a. Protein malnutrition disorder
- b. Lipid malnutrition disorder
- c. Both
- d. None

16. Glycogen is

- a. Plant starch
- b. Animal starch
- c. Both
- d. None

17. Amylose is

- a. Water soluble
- b. Water insoluble
- c. Organic acid soluble
- d. None

18. Which one is non-reducing sugar?

- a. Sucrose
- b. Fructose
- c. Mannose
- d. Glucose

19. Which vitamin is known as anti-sterility vitamin?

- a. V-A
- b. V-B
- c. V-C
- d. V-E

20. Deficiency of vitamin -B12 causes

- a. Pernicious anemia
- b. Megaloblastic anemia
- c. Both
- d. None

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UNIVERSITY OF SCIENCE & TECHNOLOGY, MEGHALAYA



[PART (A) : OBJECTIVE]

Duration : 20 Minutes

Serial no. of the
main Answer sheet

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Course :

Semester : Roll No :

Enrollment No : Course code :

Course Title :

Session : 2017-18 Date :

Instructions / Guidelines

- The paper contains twenty (20) / ten (10) questions.
- Students shall tick (✓) the correct answer.
- No marks shall be given for overwrite / erasing.
- Students have to submit the Objective Part (Part-A) to the invigilator just after completion of the allotted time from the starting of examination.

Full Marks	Marks Obtained
20	

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Scrutinizer's Signature

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Examiner's Signature

.....
Invigilator's Signature