

Write the following information in the first page of Answer Script before starting answer

**ODD SEMESTER EXAMINATION: 2020-21**

Exam ID Number \_\_\_\_\_

Course \_\_\_\_\_ Semester \_\_\_\_\_

Paper Code \_\_\_\_\_ Paper Title \_\_\_\_\_

Type of Exam: \_\_\_\_\_ (Regular/Back/Improvement)

**Important Instruction for students:**

1. Student should write objective and descriptive answer on plain white paper.
2. Give page number in each page starting from 1<sup>st</sup> page.
3. After completion of examination, Scan all pages, convert into a single PDF, rename the file with Class Roll No. (2019MBA15) and upload to the Google classroom as attachment.
4. Exam timing from 10am – 1pm (for morning shift).
5. Question Paper will be uploaded before 10 mins from the schedule time.
6. Additional 20 mins time will be given for scanning and uploading the single PDF file.
7. Student will be marked as ABSENT if failed to upload the PDF answer script due to any reason.

**B.Sc. FOOD SCIENCE & TECHNOLOGY**  
**FIRST SEMESTER**  
**BIOCHEMISTRY & NUTRITION**  
**BFST – 103 [REPEAT]**

**Duration: 3 hrs.**

**Full Marks: 70**

**Time: 20 min.**

( **PART-A: Objective** )

**Marks: 20**

***Choose the correct answer from the following:***

***1X20=20***

1. Which of the following components are major nutrients in our food?
  - a. Carbohydrates
  - b. Lipids and Proteins
  - c. Vitamins and Minerals
  - d. All of the above
2. Which of the following food sources has the highest levels of vitamin C?
  - a. Parsley
  - b. Broccoli
  - c. Black currants
  - d. Orange juice
3. The cause of short-term or acute vitamin A poisoning is due to
  - a. Eating the liver of Mule deer
  - b. Eating the liver of Buffalo
  - c. Eating the liver of Ostrich
  - d. Eating the liver of Polar bear
4. Which of the following food components is required for the growth and maintenance of the human body?
  - a. Proteins
  - b. Vitamins
  - c. Minerals
  - d. Both (a) and (b)
5. Which of the following is the most essential nutrient for a woman during her initial stages of pregnancy to prevent birth defects?
  - a. Thiamin
  - b. Folic acid
  - c. Vitamin C
  - d. Vitamin E
6. Which of the following food components give energy to our body?
  - a. Vitamins
  - b. Proteins
  - c. Minerals
  - d. Carbohydrates
7. Which of the following vitamin helps in blood clotting?
  - a. Vitamin K
  - b. Vitamin C
  - c. Vitamin D
  - d. Vitamin A
8. Which of the following mineral functions by building strong bones and teeth?
  - a. Iodine
  - b. Calcium
  - c. Iron
  - d. Sodium
9. Which of the following food products are the best sources of animal proteins?
  - a. Milk
  - b. Egg
  - c. Cheese
  - d. All of the above.

10. Which is the leading cause of blindness in children worldwide?  
a. Glaucoma  
b. Cataracts  
c. Vitamin A deficiency  
d. Colour blindness
11. Which of the following food components does not provide any nutrients?  
a. Milk  
b. Water  
c. Fruit Juice  
d. Vegetable soup
12. Who is most likely to develop scurvy – A vitamin C deficiency?  
a. A pregnant woman  
b. A malnourished child  
c. A long-time alcoholic  
d. A person with the eating disorder anorexia nervosa
13. Which of the following food components is rich in fat?  
a. Rice and Maize  
b. Milk, egg and beans  
c. Butter, cheese and oil  
d. None of the above
14. Which of the following statements is false about nutrients in milk?  
a. Milk is a good source of calcium  
b. Milk is a good source of protein  
c. Milk is a good source of vitamin C  
d. Milk is a good source of vitamin D
15. Potatoes, cereals, beans, pulses and oats are rich in \_\_\_\_\_.  
a. Proteins  
b. Vitamins  
c. Minerals  
d. Carbohydrates
16. Which of the following is NOT a function of a food additive?  
a. Maintain nutritive value  
b. Controlling acidity/alkalinity  
c. To maintain product consistency  
d. All of Above
17. What does FSS stand for?  
a. Food set and sound  
b. Food Secure and Safe  
c. Food Safety and Security  
d. Food sour and sign
18. Which of the following is a fat-soluble vitamin?  
a. Vitamin B  
b. Vitamin C  
c. Vitamin B<sub>12</sub>  
d. Vitamin K
19. Which of the following is a component of the coenzyme A?  
a. Pantothenic acid  
b. Pyridoxine  
c. Retinoic acid  
d. Retinol
20. Statement 1: A nutrition fact panel is present where the nutrition information has to be given in the same order that has been instructed.  
Statement 2: '% Daily Value' is present at the right corner to inform consumers about the quantity to be consumed.  
a. True, False  
b. True, True  
c. False, False  
d. False, True

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**( PART-B : Descriptive )**

Time : 2hr 40mins

Marks : 50

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

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|----|--|----|
| 1. | Write a detail note on diabetes?   | 10 |
| 2. | a. Give a short note on food additive.   | 5  |
|    | b. What do you understand by balance diet?   | 5  |
| 3. | a. Give the introduction of Carbohydrate and draw a chart of its classification with example.                      | 6  |
|    | b. Write a short note on lactose intolerance.  | 4  |
| 4. | a. What do you understand by sweeteners explain with types and example?  | 6  |
|    | b. Draw a complete flow diagram of glycolysis.   | 4  |
| 5. | a. Write a short note of amino acids? What are essential and non essential amino acids group their name according. | 6  |
|    | b. Write a short note on obesity.  | 4  |
| 6. | a. What is gluten sensitivity? Mention the target population which are more prone to this.                         | 6  |
|    | b. Draw ETS/ETC with detail.   | 4  |
| 7. | a. What are nutrients? Name the macro nutrient and their source and function.                                      | 6  |
|    | b. Explain the need of food.   | 4  |
| 8. | a. Write a short note on dental carries.   | 5  |
|    | b. Draw a flow diagram of TCA cycle.   | 5  |

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