

Sample MCQs for T.Y. BSc. Branch I. Foods, Nutrition & Dietetics (2019-20)
Class: T.Y. BSc. Home Science Branch I. Foods, Nutrition & Dietetics
Semester: VI
Subject: Nutritional Biochemistry - II (Theory)

Instructions: 1. All MCQ'S have to be attempted
2. Each MCQ carries 2 marks
3. Read each statement carefully and mark any one option out of the four
Options that you think is the correct answer
4. No negative marking for wrong answers

1. Select the correct sequence of reactions in the beta-oxidation of fatty acid in the mitochondria:

- a. Oxidation, hydration, oxidation and thiolysis
- b. Hydration, oxidation, reduction and thiolysis
- c. Oxidation, dehydration, oxidation and thiolysis
- d. Dehydrogenation, hydration, reduction and thiolysis

Correct answer: option "a"

2. A lipid storage disorder that results in prolonged neonatal jaundice.

- a. Metachromatic leukodystrophy
- b. Niemann-Pick disease
- c. Fabry's disease
- d. Farber disease

Correct answer: option "b"

3. A defect or deficiency in the Hexosaminidase A enzyme gives rise to:

- a. Tay-Sachs disease
- b. Gaucher's disease
- c. Fabry's disease
- d. Niemann-Pick disease

Correct answer: option "a"

4. The addition of free fatty acid in the form of two molecules of fatty acyl-CoA to the free hydroxyl groups of glycerol phosphate to yield phosphatidic acid is carried out by the enzyme-

- a. Acyl CoA Synthetase
- b. Acyl CoA transferase
- c. Phosphatidic acid phosphatase
- d. Lysophosphatidic acid synthetase

Correct answer: option "b"

5. When half of the parental DNA molecule is conserved, paired with a newly synthesized complementary strand in each new double helix, the process is known as?

- a. Bidirectional replication
- b. Semi-continuous replication
- c. Semi-conservative replication
- d. Conservative replication

Correct answer: option "c"

6. Which of the following is a start codon?

- a. AUG
- b. UAG
- c. UAA
- d. UAU

Correct answer: option “a”

7. Thyroxine and triiodothyronine are derivatives of:

- a. Glycine
- b. Proline
- c. Tryptophan
- d. Tyrosine

Correct answer: option “d”

8. These are small proteins formed in the liver via stimulation of growth hormone and have a potent effect on increasing all aspects of bone growth.

- a. Somatostatins
- b. Somatomedins
- c. Calmodulin
- d. Clathrin

Correct answer: option “b”

9. A glucose transporter that is dependent on insulin for its function is_____.

- a. GLUT5
- b. GLUT2
- c. GLUT4
- d. GLUT6

Correct answer: option “c”

10. A calcium binding protein found in the cytoplasm that carries calcium and interacts with other proteins to regulate their action is_____.

- a. Calcitonin
- b. Calmodulin
- c. Retinol binding protein
- d. Globulin

Correct answer: option “b”

Subject: Clinical Nutrition and Diet Therapy
Branch: I A – Foods, Nutrition and Dietetics
Semester: 6 Class: TYBSc

- Instructions: 1. All MCQ'S have to be attempted
2. Each MCQ carries 2 marks
3. Read each statement carefully and mark any one option out of the four Options that you think is the correct answer
4. No negative marking for wrong answers

1. Which of the following needs to be avoided for Gluten Sensitive Enteropathy
- Chicken cutlets
 - Gulab jamun
 - Both of the above
 - None of the above

Correct answer – Option c

2. Which of the following is not on the FODMAP list
- Peas
 - High Fructose Corn Syrup
 - Rice
 - Apples

Correct answer – Option c

3. Which is a good accompaniment for bread stick for a patient of gastric ulcers
- Mayonnaise
 - Nonspiced Coriander and mint chutney
 - Plain Mustard Sauce
 - Plain Hummus

Correct answer – Option d

4. Choose the correct energy prescription for a 11 year of child with severe inflamed Crohn's Disease, failure to gain height, and Growth retardation RDA +300 Kcals
- RDA + 300 Kcals
 - 100-150 Kcals/Kg bd wt
 - 200 Kcal/kg bd wt
 - 85 -100 Kcals/kg bd wt

Correct answer – Option b

5. Which of the following is *not* a commonly encountered precipitating event resulting in hepatic encephalopathy?
- Malignancy
 - Gastrointestinal bleeding
 - Infection and Sepsis
 - Dietary excesses

Correct answer – Option a

6. Which protein snack will give good quality protein and is most suitable for a patient in Grade 2 Hepatic Encephalopathy
- Soyabean Tikki

- b) Baked Chicken Cutlets
- c) Grilled Salmon
- d) Eggs fried in ghee

Correct answer – Option a

7. Which statement is false with regards ascitis
- a) Increasing ascitis decreases serum albumin levels
 - b) As ascitis increases, fluid restriction has to decrease as blood volume decreases
 - c) As ascitis increases the blood pressure will increase
 - d) Increased ascitis is seen with increasing portal hypertension

Correct answer – Option b

8. Which of the following initiates Renal Osteodystrophy in Chronic Kidney Disease
- a) Elevated serum Phosphorous
 - b) Vitamin D 3 deficiency
 - c) Resorption of Bone
 - d) Hyperparathyroidism

Correct answer – Option b

9. The ratio of dietary calcium to dietary oxalate to prevent calcium oxalate stones is
- a. one is to one ratio
 - b. 1.5 to 1 ratio
 - c. Two is to one ratio
 - d. Three is to one ratio

Correct answer – Option b

10. Which of the following is the best choice of High biological value protein for a patient of immediate post transplant
- a) Salami
 - b) Eggnogg
 - c) Salmon Sushi
 - d) Fried Chicken

Correct answer – Option d

Subject: Food Processing
Branch: I (Foods, Nutrition & Dietetics)
Semester: VI Class: TY BSc

- Instructions: 1. All MCQ'S have to be attempted
2. Each MCQ carries 2 marks
3. Read each statement carefully and mark any one option out of the four Options that you think is the correct answer
4. No negative marking for wrong answers

1. One functional ingredient often added to meat products to promote health
- Raffinose
 - Peptides with antimicrobial activity
 - Iron
 - Iodine

Correct answer: option "b"

2. The component added to margarine to simulate butter flavor
- Diacetyl
 - Propionic acid
 - Lactic acid
 - Sorbate

Correct answer: option "a"

3. Pasteurization of milk
- Produces an objectionable cooked flavor
 - Drastically changes the nutritive value
 - Changes the consistency
 - Destroys Salmonella typhi

Correct answer: option "d"

4. Eggs are washed to prevent contamination prior to processing by using
- Warm water with acetic acid
 - Warm chlorinated water
 - Warm caustic soda
 - Hot chlorinated water

Correct answer: option "b"

5. A fruit drink in which all suspended material is eliminated making it very clear
- Fruit squash
 - Cordial
 - Fruit punch
 - Fruit medley

Correct answer: option "b"

6. An enzyme present in raw milk, the levels of which are checked to determine the effectiveness of pasteurization
- Alkaline phosphatase
 - Xanthine oxidase

- c. Protease
- d. Hydrolase

Correct answer: option “a”

7. Fortification of foods designed for specific population subgroups within a population is known as:

- a. Mass fortification
- b. Targeted fortification
- c. Market driven fortification
- d. Biofortification

Correct answer: option “b”

8. One device used to separate impurities from grain

- a. Conveyor
- b. Aspirator
- c. Tunnel drier
- d. Roller

Correct answer: option “b”

9. The size of homogenized fat globules is

- a. 2 micrometer
- b. 100 micrometer
- c. 60 micrometer
- d. 150 micrometer

Correct answer: option “a”

10. A component added during tofu manufacture to precipitate soy milk

- a. Lime juice
- b. Vinegar
- c. Calcium sulphate
- d. Calcium tartarate

Correct answer: option “c”

Subject: Human Nutrition-micronutrients & functional foods
Branch: I (Foods, Nutrition & Dietetics)
Semester: VI Class: TY BSc

1. The RDA of a healthy sedentary adult female for Niacin is
- a. 8.0 mg/d
 - b. 10 mg/d
 - c. 12 mg/d
 - d. 14 mg/d

Correct answer: option “c”

2. The body system affected in Dry Beri Beri is
- a. Skeletal system
 - b. Nervous system
 - c. Renal system
 - d. Cardiovascular system

Correct answer: option “b”

- a. Angular stomatitis is a predominant deficiency symptom of
- a. Niacin
 - b. Thiamin
 - c. Riboflavin
 - d. Vitamin D

Correct answer: option “c”

3. Conversion of pyruvate to lactate in glucose metabolism requires
- a. TPP
 - b. FMN
 - c. NADP
 - d. NAD

Correct answer: option “d”

4. One of the following is a neural tube defect
- a. Osteoporosis
 - b. Anemia
 - c. Spina bifida
 - d. Neuropathy

Correct answer: option “c”

5. Synthesis of monoiodothyronine is catalysed by
- a. Peroxidase
 - b. Dehydrogenase
 - c. Dioxygenase
 - d. Transaminase

Correct answer: option “a”

6. The antianxiety effect of tranquilizers could be counteracted by
- Caffeine
 - Fiber
 - Fat
 - Sugars

Correct answer: option “a”

7. Metabolism of drugs/medicines is facilitated by one of the following
- Cytochrome A
 - P450
 - Cytoplasm
 - Ribosomes

Correct answer: option “b”

8. One of the following minerals is a constituent of cytochromes
- Calcium
 - Zinc
 - Copper
 - Phosphorus

Correct answer: option “c”

9. Bioavailability of an antibiotic is high if consumed-----
- 15 minutes before breakfast
 - Immediately after major meal
 - On empty stomach
 - As per convenience

Correct answer: option “b”

10. The two minerals required for the synthesis of Hydroxyapatite crystals in bone are
- Calcium and Phosphorus
 - Iron and Zinc
 - Calcium and Iron
 - Selenium and Phosphorus

Correct answer: option “a”

Subject: Nutritional Surveillance
Branch: I (Foods, Nutrition and Dietetics)
Semester: VI Class: T.Y. B.SC

Instructions:

- 1. All MCQ'S have to be attempted**
- 2. Each MCQ carries 2 marks**
- 3. Read each statement carefully and mark any one option out of the four Options that you think is the correct answer**
- 4. No negative marking for wrong answers**

1. The collection, analysis and interpretation of data on individuals or groups to detect the occurrence of certain events and their putative causes are known as_____.
 - a. Health promotion
 - b. Health Surveillance
 - c. Census
 - d. Data collection

Correct answer: option "b"

2. Microbiologic surveys which help in determining the antibiotic resistance among persons with invasive pneumococcal infections are example of_____.
 - a. Sentinel
 - b. Special
 - c. Passive
 - d. Active

Correct answer: option "b"

3. _____is indicative of Stunting.
 - a. Low height for age
 - b. Low weight for height
 - c. Low weight for age
 - d. Small head circumference

Correct answer: option "a"

4. A chest/head circumference ratio of _____between the ages of 6 months to 5 years are indicative of malnutrition.
 - a. <1
 - b. >1
 - c. >2
 - d. >3

Correct answer: option "a"

5. A written record of all the foods and beverages ingested over a given period of time is:
 - a. Food Frequency Questionnaire
 - b. Food Dairy
 - c. Weighment method
 - d. Dietary Recall

Correct answer: option "b"

6. Weight for Height Z - score or BMI for Age Z - score of $> +2$ indicates which of the following:
- Moderate Undernutrition
 - Severe undernutrition
 - Mild undernutrition
 - Obesity

Correct answer: option “d”

7. Under the National Nutritional Anemia Control Programme pregnant women are provided with what quantity of elemental iron?
- 300 mg
 - 200 mg
 - 100 mg
 - 75 mg

Correct answer: option “c”

8. Set of planned educational activities targeted at certain population groups and aimed at acquiring healthy nutrition behaviors is known as?
- Nutrition Education
 - Behaviour Modification
 - Counselling
 - Behaviour Change

Correct answer: option “a”

9. Which of the following has the overall responsibility of monitoring the ICDS?
- Ministry of Women and Child Development
 - ICMR
 - UNICEF
 - Ministry of Human Development

Correct answer: option “a”

10. According to NIGYCF which of the following practices is not to be followed:
- Consider nutrient density of the feed
 - Feeding the infant 5 - 6 times a day in addition to breast feeding
 - Encourage bottle feeding
 - Careful hygienic preparation of the complementary feed

Correct answer: option “c”

Subject: Entrepreneurship in Food Nutrition
Branch: I (Foods, Nutrition and Dietetics)
Semester: VI **Class:** T.Y. B.Sc. (Home Science)

Instructions: 1. All MCQ'S have to be attempted
2. Each MCQ carries 2 marks
3. Read each statement carefully and mark any one option out of the four options that you think is the correct answer
4. No negative marking for wrong answers

1. Analysis of how a product or service can be sold at a profit, is undertaken as part of:
 - a. Production feasibility study
 - b. Financial feasibility study
 - c. Market feasibility study
 - d. Operational feasibility study

Correct answer: option "c"

2. Which of the following characteristics must a potential business venture have in order to be feasible:
 - i) It should be able to withstand the risks it will encounter
 - ii) It should be able to generate adequate cash-flow and profits
 - iii) It should have export potential
 - iv) It should have long-term viability

- a. i), ii) and iv)
- b. ii), iii) and iv)
- c. i), iii) and iv)
- d. i), ii) and iii)

Correct answer: option "a"

3. What is LEAST LIKELY to be included in the main body of a business plan?
 - a. The form of ownership of the business
 - b. Products/ services on offer
 - c. Statement of purpose
 - d. Current and projected financial statements

Correct answer: option "c"

4. The three basic objectives of product promotion are which of the following?
 - i) To get market feedback about the product
 - ii) To increase demand for the product
 - iii) To present information to potential consumers
 - iv) To differentiate a branded product from others

- a. i), ii) and iii)
- b. ii), iii) and iv)
- c. i), iii) and iv)
- d. i), ii) and iv)

Correct answer: option "b"

5. A product enters the maturity phase of its life cycle when:
- a. Sales grow slowly and demand stabilizes
 - b. Sales drop
 - c. Sales begin to increase
 - d. Sales grow rapidly

Correct answer: option “a”

6. The advantages of training to the company include reduction in
- i) Need for supervision
 - ii) Production costs
 - iii) Absenteeism
 - iv) Accidents

- a. i), ii), iii) and iv)
- b. i), ii) and iii)
- c. i) and ii)
- d. ii) and iii)

Correct answer: option “a”

7. In a fast-food outlet, the variable cost of 15 pizzas is Rs. 300/-. The total cost for 15 pizzas is Rs.750/-. Hence, the fixed cost is _____.
- a. Rs. 300/-
 - b. Rs.450/-
 - c. Rs. 1050/-
 - d. Rs. 1200/-

Correct answer: option “b”

8. The financial remuneration given by an organisation to its employees in exchange for their expected work is known as
- a. Compensation
 - b. Gratuity
 - c. Bonus
 - d. Fringe benefit

Correct answer: option “a”

9. Which of the given schemes was launched by PM Modi on 16th January 2016?
- a. Digital India
 - b. Make in India
 - c. Atmanirbhar Bharat Abhiyaan
 - d. Start-up India

Correct answer: option “d”

10. _____ is an example of a fixed asset.
- a. Land and buildings
 - b. Stock
 - c. Owner's investment
 - d. Retained profits

Correct answer: option “a”
