

Sample Multiple Choice Questions
M. Sc. Semester I - Branch IB - Food Processing & Preservation (2020-2021)

PSHSI101 - Research Methods and Biostatistics - Paper I

Instructions: 1. Attempt any 8 out of 10 given MCQs
2. Each MCQ carries 1.5 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. Test which are conducted to measure present performance as well as skill or knowledge that has been acquired as a result of training are called**
- a. Test of Attainment
 - b. Test of intelligence
 - c. Standardized test
 - d. Speed tests

Correct answer: option "a"

- 2. It is a method of summated ratings where the item score is obtained by assigning arbitrary weights for qualitative attributes**
- a. Likert scale
 - b. Symantac scale
 - c. Thurstone scale
 - d. Forced Rating scale

Correct answer: option "a"

- 3. In this method the tool is first divided into two equivalent halves then the measure of first half is correlated with the measure of another half.**
- a. The test-retest method
 - b. The equivalent or parallel form method
 - c. The split half method
 - d. The rational equivalent method

Correct answer: option "c"

- 4. A tool used for data collection must have the ability to consistently yield the same results when it is repeatedly administered to the same individuals under the same conditions**
- a. Reliability
 - b. Validity
 - c. Predictive validity
 - d. Usability

Correct answer: option "a"

5. **In many situations the objective of interview is to secure information about the individual's health problems and health related variables. This type of interview is called**
- a. Clinical interview
 - b. Research interview
 - c. Directive interview
 - d. Uncontrolled interview

Correct answer: option "a"

6. **It is another category of expressive documents**
- a. Official Records
 - b. Legislative documents
 - c. Journals
 - d. Account of Small-group processes

Correct answer: option "d"

7. **Techniques of interviewing includes the following sequential steps**
- a. Conduct of interview, preparation of interview & Recording of the interview
 - b. Recording of the interview, conduct of interview & preparation of interview
 - c. Preparation of interview, Conduct of interview & Recordings of interview
 - d. Preparation of interview, Recordings of interview & Conduct of interview

Correct answer: option "c"

8. **A process in which one or more persons observe some real-life situation process and record pertinent occurrences**
- a. Questionnaire
 - b. Interview
 - c. Documents
 - d. Observation

Correct answer: option "d"

9. **It refers to certain operations such as editing, coding, computing of the scores, preparation of master charts**
- a. Data Coding
 - b. Data Processing
 - c. Data editing
 - d. Data Computing

Correct answer: option "b"

10. **It involves assigning of symbols to each response of the question. The purpose of giving numerical symbols is to translate raw data into numerical data which may be counted and tabulated.**
- a. Data Coding
 - b. Data Processing
 - c. Data editing
 - d. Data Computing

Correct answer: option "a"

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PSHSIB102 - Food Chemistry

- Instructions:
1. Attempt any 8 out of 10 given MCQs
 2. Each MCQ carries 1.5 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 is NOT true for lipoxygenase?

- a. The role of lipoxygenases in foods and food quality is referred to carotene oxidase activities.
- b. Lipoxygenase cause quality enhancement in processed vegetables that have not been sufficiently thermally processed to destroy the enzyme.
- c. many lipoxygenases cause secondary, free radical co-oxidation reactions when the anaerobic cycle is operative.
- d. None of the above

Correct answer: Option “b”

2. Zymogens are

- a. Active enzymes
- b. Chemical precursors of the enzymes
- c. Solvent of enzymes
- d. Enzyme inhibitors

Correct answer: Option “b”

3. Water is a _____

- a. Polar solvent
- b. Non polar solvent
- c. Amphipathic solvent
- d. Non polar uncharged solvent

Correct answer: Option “a”

4. Fat substitutes are one option for cutting the fat calories in foods. What are fat substitutes made of?

- a. Carbohydrates
- b. Proteins
- c. Fats
- d. Only a and b
- e. All of the above

Correct answer: Option “e”

5. The following are the permitted food colours

- a. Malachite green
- b. Metanil yellow
- c. Rhodamine B
- d. None of the above

Correct answer: Option “d”

6. Which of the following vitamin functions as both, hormone and visual pigment?
- a. Thiamine
 - b. Retinal
 - c. Riboflavin
 - d. Folic acid

Correct answer: Option “b”

7. Excessive intake of calcium in our diet results in _____.
- a. Stroke
 - b. Diarrhea
 - c. Constipation
 - d. Kidney damage
 - e. None of the above

Correct answer: Option “d”

8. Which of the following amino acids has to be supplemented in the diet?
- a. phenylalanine
 - b. cysteine
 - c. glutamine
 - d. asparagine

Correct answer: Option “a”

9. a sugar used in sugarless gummies and candies
- a. ribitol
 - b. xylitol
 - c. inositol
 - d. mannitol

Correct answer: Option “b”

10. _____, _____ and _____ modalities allow recognition of energy-containing nutrients and maintenance of electrolyte balance.
- a. Sweet, bitter and salt
 - b. Sweet, umami and salt
 - c. Bitter, umami and salt
 - d. Sweet, umami and bitter

Correct answer: Option “b”



PSHSIB103 - Advances in Food Science

- Instructions:
1. Attempt any 8 out of 10 given MCQs
 2. Each MCQ carries 1.5 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. β - sitosterol is a bioactive compound in which of the following plant based milk formulations
 - a. Soy milk
 - b. Rice milk
 - c. Oat milk
 - d. Sesame milk

Correct answer: option “ b”

2. Alkaline extraction and micellization treatments are used for the extraction of proteins from which of the following plant protein sources
 - a. Soybean
 - b. Sunflower
 - c. Hemp seeds
 - d. Lentils

Correct answer: option “ c”

3. When a starch product is subjected to dry heat, carbohydrate compound/s called _____ is/are formed
 - a. Glucose
 - b. Dextrins
 - c. Sucrose
 - d. Amylopectins

Correct answer: option “ b”

4. Retrogradation (crystallization) occurs in gels with starch content _____
 - a. 10-20%
 - b. 30-40%
 - c. 40-50%
 - d. 50-60%

Correct answer: option “ d”

5. Starch is comprised of the following
 - a. Amylose and amylopectin
 - b. Glucose and Fructose
 - c. Maltose and Maltose
 - d. Sucrose and Glucose

Correct answer: option “ a”

6. A dispersion in which the dispersed phase is liquid, and continuous phase is gas
- Fog
 - Sol
 - Foam
 - Emulsion

Correct answer: option “ a”

7. Which of the following starch sources has gelatinization temperature in the range of 53-64°C
- Wheat
 - Rice
 - Sweet potato
 - Orange

Correct answer: option “ a”

8. The percent distribution of starch a carbohydrate is highest in which part of the wheat grain
- Germ
 - Endosperm
 - Bran
 - None of the above

Correct answer: option “ b”

9. Calcium content is highest in which of the following pulses
- Cow pea
 - Bengal gram
 - Rajmah
 - Red gram

Correct answer: option “ c”

10. The biological value of which of the following pulse is lowest
- Soyabean
 - Peanut
 - Rice
 - Pea

Correct answer: option “ b”



PSHSIB104 - Advanced Food Microbiology

Instructions:

1. Attempt any 8 out of 10 given MCQs
2. Each MCQ carries 1.5 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 best describes a microbial control protocol that inhibits the growth of molds and yeast?
 - a. bacteriostatic
 - b. fungicidal
 - c. bactericidal
 - d. fungistatic

Correct answer: b

2. Bleach is an example of which group of chemicals used for disinfection?
 - a. heavy metals
 - b. halogens
 - c. quats
 - d. bisbiguanides

Correct answer: b

3. Mesophiles are group of bacteria that grow within the temperature range of?
 - a. 0-20 degree Celsius
 - b. 25-40 degree Celsius
 - c. 45-60 degree Celsius
 - d. more than 60 degree Celsius

Correct answer: b

4. The bacterium *Staphylococcus aureus* is which type of bacteria?
 - a. Psychrophile
 - b. Mesophile
 - c. Thermophile
 - d. Mesophile and psychrophile

Correct answer: b

5. The food-borne illness that can be caused by a foodservice worker coughing or sneezing on food is:
 - a. *Staphylococcus aureus*
 - b. *Clostridium perfringens*
 - c. *Salmonella*
 - d. *Trichanella*

Correct answer: a

6. Which of the following are purchasing guidelines to prevent food-borne illness:
- a. select meat, fish, poultry, eggs last during the shopping trip
 - b. do not purchase items in bulging or dented cans
 - c. wrap perishable items so that juices don't drip onto other food items
 - d. all of the above

Correct answer: d

7. A virus found in shellfish from contaminated water and foods that are handled by infected individuals then eaten raw is:
- a. *Influenza*
 - b. *Hepatitis A*
 - c. *Hepatitis C*
 - d. *Rhinovirus*

Correct answer: b

8. The time between consumption of contaminated food and the onset of the symptoms of food poisoning is:
- a. duration of illness
 - b. the infective period
 - c. the incubation period
 - d. the 'carrying' period.

Correct answer: c

9. The microbiological examination of coliform bacteria in foods preferably use
- a. MacConkey broth
 - b. Violet Red Bile agar
 - c. Eosine Methylene blue agar
 - d. all of these

Correct answer: d

10. The decimal reduction time refers to the amount of time it takes to which of the following?
- a. reduce a microbial population by 10%
 - b. reduce a microbial population by 0.1%
 - c. reduce a microbial population by 90%
 - d. completely eliminate a microbial population

Correct answer: c



PSHSIB105 - Nutrition and Biochemistry

Instructions: -

1. Attempt any 8 out of 10 questions.
2. Each question carries 1.5 marks
3. Read each statement carefully and mark any 1 option out of the four options that you think is the correct answer.
4. No negative marking for wrong answers.

1. The Fluid mosaic cell membrane model was proposed by:

- a. Danielli – Davson
- b. Singer Nicholson
- c. Robertson
- d. Gorter and Grendel

Correct answer: - Option “b”

2. In the bilayer of the membrane, the components phosphatidylcholine (PC) and phosphatidylserine (PS) are:

- a. both found in the outer leaf of the membrane.
- b. both found in the inner leaf of the membrane.
- c. PC is found only in the outer leaf but PS is found only in the inner leaf of the membrane.
- d. PC is found only in the inner leaf but PS is found only in the outer leaf of the membrane.

Correct answer: - Option “c”

3. For a molecule being transported across the membrane through a channel protein, select the CORRECT statement:

- a. The transport across a channel protein is always ATP driven.
- b. The transport across a channel protein could either be a process with or without ATP usage.
- c. The transport across a channel protein is always independent of ATP usage.
- d. The transport across a channel protein is always unidirectional.

Correct answer: - Option “b”

4. TCA produces:

- a. 3NADH and 1 FADH₂ along with CO₂
- b. 3NADH and 1FADH₂
- c. 2FADH₂ and 3NADH
- d. 3FADH₂ and 3NADH

Correct answer: - Option “a”

5. Glycemic load of food refers to:
- the amount of glucose present in the food.
 - the amount of sugars present in the food.
 - the rise in the level of glucose after eating that food.
 - the amount of glucose that must be reduced from your diet to maintain normal levels.

Correct answer: - Option "c"

6. The statement that is NOT true for dietary fibres is:
- Dietary fibres reduces insulin sensitivity.
 - Dietary fibres increases insulin sensitivity.
 - Dietary fibres reduces irritability of the large intestine.
 - Dietary fibres increases satiety.

Correct answer: - Option "a"

7. If the Glycemic indices of sorbitol, fructose and glucose are given as 10, 20 and 100 respectively, which of the statement is CORRECT?
- Glucose can be replaced by sorbitol but not by fructose.
 - Fructose can be replaced by sorbitol.
 - Sorbitol can be replaced by both fructose and glucose.
 - Fructose can be replaced by glucose but not by sorbitol.

Correct answer: - Option "b"

8. Retinol is transported in the circulation by plasma retinol binding protein in association with
- Albumin
 - Pre-albumin
 - Rhodopsin
 - Carotenes

Correct answer: option: "b"

9. Rhodopsin is present in
- Rods
 - Cones
 - Retina
 - Iris

Correct answer: option: "a"

10. It is a primary alcohol beta-ionone ring
- Retinol
 - Retinal
 - Retinoic acid
 - Retinol esters

Correct answer: option: "a"

