

Seat No.	
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M.Phil./Ph.D. Entrance Examination, September - 2022
FOOD SCIENCE AND TECHNOLOGY (For M.Sc. Students)
Sub Code : 58807

Day and Date : Thursday, 22 - 09 - 2022**Total Marks : 100****Time : 1.00 p.m. to 3.00 p.m.**

- Instructions :**
- 1) All questions are compulsory.
 - 2) Each question carries 2 marks.
 - 3) Answers should be marked in the given OMR answer sheet by darkening the appropriate option.
 - 4) Use black ball point pen only for marking the circle. Do not make any stray mark on the OMR Answer Sheet.
 - 5) Follow the instructions given on OMR Sheet.
 - 6) Rough work shall be done on the sheet provided at the end of question paper.
 - 7) Only non-programmable calculators are allowed.

1) Wave used in ultrasonic cleaning is of the frequency

- | | |
|---------|---------|
| A) 14Hz | B) 16Hz |
| C) 15Hz | D) 17Hz |

2) Albinism disorder observed in

- | | |
|---------------|-----------|
| A) Strawberry | B) Sapota |
| C) Mango | D) Banana |

3) Sets of 3 successive amine bases in RNA are called

- A) codons
- B) genes
- C) chromosomes
- D) messengers

P.T.O.

- 4) Invert sugar is another name for:
- A) Galactose
 - B) Maltose
 - C) Both (A) and (B)
 - D) None of the above
- 5) What is superization
- A) Types of pasteurization
 - B) Inactivation of lipase
 - C) Types of sterilization
 - D) None
- 6) Acidity of tomato ketchup
- A) 0.5%
 - B) 1.0%
 - C) 1.5%
 - D) 2.0%
- 7) In cells the free fatty acids are present in combination with
- A) Protein
 - B) Z-protein
 - C) Q- protein
 - D) X- protein
- 8) Wave used in ultrasonic cleaning is of the frequency
- A) 14Hz
 - B) 15Hz
 - C) 16Hz
 - D) 17Hz

- 9) Red colour in the crumb of the dark bread has caused by
- A) *Monillinasitophilla*
 - B) *Serratiamarcescens*
 - C) *Geotrichum*
 - D) None
- 10) Specific gravity of lactose is at 60°F
- A) 1.009
 - B) 1.028
 - C) 1.035
 - D) 1.042
- 11) In case of CAP and MAP, which of the gases are introduced, monitored or adjusted
- A) O₂ and CO₂
 - B) O₂ and N
 - C) O₂, N₂ and CO₂
 - D) N₂ and CO₂
- 12) Smoke point of avocado oil is
- A) 195°C
 - B) 260°C
 - C) 300°C
 - D) 360°C
- 13) Single cell proteins are undesirable
- A) Content spirulina
 - B) Present uronic acid
 - C) Both (A) and (B)
 - D) None

- 14) Which organism used in fermentation of soya sauce
- A) *Saccharomyces cereviceae*
 - B) *Staphylococcus*
 - C) *Clostridium*
 - D) *Saccharomyces roxii*
- 15) Collagen is:
- A) A glycoprotein
 - B) A globular protein
 - C) A heme protein
 - D) A lipoprotein
- 16) Fat content of double tone milk is_____.
- A) 0.5
 - B) 1.0
 - C) 1.5
 - D) 3.0
- 17) The microbial cause of spoilage of honey
- A) *Zygosaccharomyces*
 - B) *Azotobactor*
 - C) *Fusarium*
 - D) *Candida*
- 18) *Proteus* causes _____spoilage in egg.
- A) Red Rot
 - B) Black Rot
 - C) Green Rot
 - D) Pink Rot

- 19) Strawberry is canned in _____.
A) AR Can
B) SR Can
C) Plain Can
D) None of the above
- 20) Yeast is an important source of
A) Vitamin-A
B) Vitamin-B
C) Vitamin-C
D) Vitamin-D
- 21) Which of the following is not a natural color
A) Cyanidine 3 glucoside
B) Chlorophyll
C) Sunset Yellow
D) Annato
- 22) Malic acid is predominant in
A) Plum
B) Peach
C) Papaya
D) Orange
- 23) Which solvent is commonly used to determine fat content?
A) Amyl Alcohol
B) Ethyl Alcohol
C) Hexane
D) Benzene
- 24) Environmental Management System is
A) ISO 22000
B) ISO 24000
C) ISO 14000
D) ISO 16000

- 25) Protein content in Soft wheat is
- A) 8%
 - B) 12%
 - C) 14%
 - D) None of the above
- 26) Which method can be applicable for collecting qualitative data?
- A) Artifacts (Visual)
 - B) People
 - C) Media products (Textual, Visual and sensory)
 - D) All of these
- 27) Mean, Median and Mode are:
- A) Measures of deviation
 - B) Ways of sampling
 - C) Measures of central tendency
 - D) None of the above
- 28) Questionnaire is a
- A) Research method
 - B) Measurement technique
 - C) Tool for data collection
 - D) Data analysis technique

- 29) Which of the following is not covered under Intellectual Property Rights ?
- A) Copyrights
 - B) Patents
 - C) Trade Marks
 - D) Thesaurus
- 30) The _____ is the value you calculate when you want the arithmetic average.
- A) Mean
 - B) Median
 - C) Mode
 - D) All of the above
- 31) Which of the following is not one of the six major methods of data collection that are used by educational researchers?
- A) Observation
 - B) Interviews
 - C) Questionnaires
 - D) Checklists
- 32) A research plan _____.
- A) Should be detailed
 - B) Should be given to others for review and comments
 - C) Sets out the rationale for a research study
 - D) All of the above
- 33) Which of the following is not a good criterion for selecting sample?
- A) Purpose of the Survey
 - B) Degree of precision required
 - C) Financial resources provider
 - D) Time limitation

- 34) The purpose of research is:
- A) to extend the conceptual understanding of a topic
 - B) that the empirical work should be testing a theory
 - C) primarily to get more data
 - D) to produce work of publishable quality
- 35) The data of research is_____.
- A) Qualitative only
 - B) Quantitative only
 - C) Both (A) and (B)
 - D) Neither (A) nor (B)
- 36) The first step of research is:
- A) Finding a problem
 - B) Selecting a problem
 - C) Searching a problem
 - D) Identifying a problem
- 37) Authenticity of a research finding is its
- A) Validity
 - B) Objectivity
 - C) Originality
 - D) All of the above
- 38) Action research is
- A) An applied research
 - B) Simulative research
 - C) A longitudinal research
 - D) A research carried out to solve immediate problems

- 39) In a thesis, figures and tables are included in
- A) The text itself
 - B) The appendix
 - C) A separate chapter
 - D) The concluding chapter
- 40) A research paper.
- A) is a compilation of information on a topic
 - B) can be published in more than one journal
 - C) contains original research as deemed by the author
 - D) contains peer-reviewed original research
- 41) _____ is a quality of Good researcher.
- A) Scientific temper
 - B) Age
 - C) Money
 - D) Time
- 42) A Blue print of Research work is called
- A) Research problem
 - B) Research design
 - C) Research tools
 - D) Research methods
- 43) When a hypothesis is stated negatively it is called.
- A) Relational Hypothesis
 - B) Situational Hypothesis
 - C) Null Hypothesis
 - D) Casual Hypothesis
- 44) Which correlation is the strongest?
- A) -1.00
 - B) +80
 - C) -60
 - D) +05

- 45) Interview questions should:
- A) Lead the respondent
 - B) Probe sensitive issues
 - C) Be delivered in a neutral tone
 - D) Test the respondents' powers of memory
- 46) If the mean of 6 numbers is 41 then the sum of these numbers is
- A) 250
 - B) 246
 - C) 134
 - D) 456
- 47) Values of the test statistic that separate the acceptance region from the rejection region are called
- A) critical values
 - B) sample values
 - C) p-values
 - D) expected values.
- 48) When a citation includes more than_____authors, only the surname of the first author is cited followed by et al.
- A) 3
 - B) 5
 - C) 4
 - D) 6

- 49) What is the standard deviation of a sampling distribution called?
- A) Sampling error
 - B) Sample error
 - C) Standard error
 - D) Simple error
- 50) Which of the following is not a good criterion for selecting sample?
- A) Purpose of the Survey
 - B) Degree of precision required
 - C) Financial resources provider
 - D) Time limitation



Rough Work