Question Booklet No.: Question Booklet Series: **D**

ENTRANCE TEST - 2025

School of Applied Sciences & Technology

Food Technology

Total Questions: 60 **Roll No.** | | | | | | |

Time Allowed: 70 Minutes

Important Instructions for Candidates:

1. Candidates shall compulsorily use only **blue/ black ball point pen**. In no case gel/ink pen or pencil should be used.
2. Compulsorily write your **roll number** in the space provided at the top of this page of the question booklet.
3. Fill up the necessary information in the spaces provided on OMR Answer sheet including **Question Booklet Number** and **Question Booklet Series**.
4. OMR Answer sheet has an original copy and a candidate's copy glued beneath it at the top. While making entries in the original copy, candidate should ensure that the **two copies are aligned properly** so that the entries made in the original copy against each item are exactly copied in the candidate's copy.
5. All entries in the OMR Answer Sheet, including answers to questions, are to be recorded in the Original Copy only.
6. **Choose only one correct/most appropriate response** for each question among the options A, B, C and D and darken the circle of the appropriate response completely. Incompletely darkened circle is not correctly read by the OMR scanner and no complaint to this effect shall be entertained.
7. **Do not darken more the one circle of option for any question. A question with more than one darkened response shall be considered wrong.**
8. **There will be negative marking for wrong answers. Each wrong answer will lead to deduction of 0.25 marks per wrong answer from the score.**
9. Only those candidates who obtain positive score in Entrance Test shall be eligible for admission.
10. Do not make any stray mark on the OMR sheet as this may lead to errors while scanning.
11. OMR answer sheet must be handled carefully and it should not be folded or mutilated, as in such case it will not be properly evaluated by the machine.
12. No Electronic gadgets including calculators, mobiles, smart watches, blue tooth etc. shall be permitted inside the examination hall.
13. Rough work, if any, should be done on the blank sheets provided with the question booklet.
14. Ensure that the OMR Sheet is signed by the Examinee as well as by the invigilator.
15. At the end of the examination, fold the OMR Sheet along the crease on the top and tear off the top strip to separate the Original OMR Sheet from the Duplicate Copy.
16. Hand over the Original OMR answer sheet to the invigilator and retain the candidate's copy of OMR, Question Booklet and Admit card for your reference.
17. If any of the information in the response Sheet/Question Paper has been found missing or not mentioned as stated above, the candidate is solely responsible for that lapse.
18. Any deficiency on the OMR shall be the responsibility of the candidate himself/herself.

1. Which type of inhibitor increases the apparent Km but does not affect Vmax?
   a) Non-competitive inhibitor
   b) Competitive inhibitor
   c) Uncompetitive inhibitor
   d) Suicide inhibitor

2. What is the minimum percentage of fruit juice content required in fruit squash as per FSSAI (India) standards?
   a) 5%
   b) 10%
   c) 25%
   d) 50%

3. Which one of the following oils is non-edible due to high levels of ricin?
   a) Mustard oil
   b) Coconut oil
   c) Linseed oil
   d) Castor oil

4. Which plant food is known for its high omega-3 fatty acid content?
   a) Flaxseeds
   b) Wheat
   c) Rice
   d) Corn

5. The gap between two neurons where neurotransmitters are released is called:
   a) Axon hillock
   b) Synapse
   c) Nodal junction
   d) Neurofibril

6. Which hormone is secreted by the pineal gland and regulates the sleep-wake cycle?
   a) Melatonin
   b) Serotonin
   c) Thyroxine
   d) Growth hormone

7. What is the average lifespan of a red blood cell?
   a) 60 days
   b) 90 days
   c) 120 days
   d) 150 days

8. If x=2+5i, then the value of expression $x^3-5x^2+33x-49$ equals
   a) 20
   b) -20
   c) -10
   d) -29

9. Value of determinant: $\begin{bmatrix} 0 & b & -c \\ -b & 0 & a \\ c & a & 0 \end{bmatrix}$ is
   a) a + b + c
   b) abc
   c) $a^2 + b^2 + c^2$
   d) 0

10. The symmetric part of the matrix: A $= \begin{bmatrix} 1 & 2 & 4 \\ 6 & 8 & 2 \\ 2 & -2 & 7 \end{bmatrix}$ is
    a) $\begin{bmatrix} 1 & 2 & 3 \\ 2 & 8 & 0 \\ 3 & 0 & 7 \end{bmatrix}$
    b) $\begin{bmatrix} 1 & 4 & 3 \\ 4 & 8 & 0 \\ 3 & 0 & 7 \end{bmatrix}$
    c) $\begin{bmatrix} 0 & -2 & -1 \\ -2 & 0 & -2 \\ -1 & -2 & 0 \end{bmatrix}$
    d) $\begin{bmatrix} -1 & -2 & -3 \\ -2 & 8 & 0 \\ -3 & 0 & 7 \end{bmatrix}$

11. The derivative of $\cos^{-1} x$ is:
    a) $1 / \sqrt{(1 - x^2)}$
    b) $-1 / \sqrt{(1 - x^2)}$
    c) $1 / (1 + x^2)$
    d) $-1 / (1 + x^2)$

12. Find $\int (3x^2 - 2x + 1)\, dx$:
    a) $x^3 - x^2 + x + C$
    b) $x^3 + x^2 + x + C$
    c) $x^3 - x + C$
    d) $3x^3 - x^2 + C$

13. The order of the differential equation whose solution is $x^2+y^2+2gx+2fy+c=0$ is
    a) 1
    b) 2
    c) 3
    d) 4

14. A tangent is drawn to the parabola $y^2 = 6x$ which is perpendicular to the line $2x + y = 1$. Which of the following points does NOT lie on it?
    a) (–6, 0)
    b) (4, 5)
    c) (5, 4)
    d) (0, 3)

15. The equation whose roots are reciprocal of the roots of the equation $x^2-5x+6=0$ is
    a) $5x^2-6x+1=0$
    b) $6x^2-5x+1=0$
    c) $6x^2+5x-1=0$
    d) None of these

16. Major chemical compound present in the endospore of bacteria is:
    a) Calcium tenate
    b) Calcium pectate
    c) Calcium picolinate
    d) All the above

17. Which of the following is bottom yeast:
    a) *Saccharomyces carlsbergensis*
    b) *Saccharomyces elipsoideus*
    c) *Candida utilis*
    d) All the above

18. Bacterial soft rot is mainlycaused by:
    a) *Erwiniacarotovora*
    b) *Botrytis cinerea*
    c) *Rhizopusstolonifer*
    d) *Alternariateneus*

19. Which of the following is not true about continuous type fermentation:
    a) The exponential phase of growth is extended
    b) Nutrients are utilized efficiently and faster
    c) Risk of contamination is lower than batch fermentation
    d) A chemostat allows maintenance of growth rate during fermentation

20. In disaccharides, two monosaccharides are joined together by:
    a) Glucosidic bond
    b) Glycosidic bond
    c) Disulphide bond
    d) Hydrogen bond

21. Which of the following is the essential fatty acid
    a) Stearic acid
    b) Linolenic acid
    c) Lauric acid
    d) Palmitic acid

22. After the removal of Mg ion from chlorophyll, the compound formed is:
    a) Pheophytin
    b) Pheophorbide
    c) Chlorophillide
    d) Mesochlorophyll

23. Machine polished rice is responsible for:
    a) Xerophthalmia
    b) Beri-Beri
    c) Rickets
    d) Scurvy

24. The protein complex formed during dough formation of hard wheatwhich is responsible for the bread making characteristics of dough is
    a) Promalin and proteose
    b) Gliadin and zein
    c) Gliadin and glutenin
    d) Promalin and Gliadin

25. As per FSSAI, the TSS of tomato ketchup should be
    a) 25%
    b) 35%
    c) 45%
    d) 55%

26. Which of the following enzymes is the index for the adequacy of blanching
    a) Peroxidase
    b) Catalase
    c) Lipase
    d) Polyphenolase

27. Samolina is obtained from
    a) Hard wheat
    b) Soft wheat
    c) Durum wheat
    d) Any of the above

28. As per FSSAI, minimum amount of milk fat in toned milk should be:
    a) 2%
    b) 3%
    c) 4%
    d) 5%

29. COB test is
    a) Calorie of butter
    b) Cream of butter
    c) Clot on boiling
    d) None of the above

30. The chief muscle pigment is
    a) Myoglobin
    b) Myoerythrim
    c) Myocyanin
    d) Myocholine

31. Enzymes responsible for the increase in tenderization of meat during ageing
    a) Carbohydrases
    b) Lipolytic enzymes
    c) Proteolytic enzymes
    d) None of these

32. The independent values in a set of values of a test is called as
    a) Degrees of freedom
    b) Test Statistic
    c) Level of Significance
    d) Level of Confidence

33. The marks obtained by a student in different subjects are 84 85 89 92 93 89 87 89 92. The value of mode is
    a) 92
    b) 9
    c) 93
    d) 89

34. What is the Median of the following data sample?
    2, 7, 4, 8, 9, 10, 6, 12, 13
    a) 8
    b) 11
    c) 9
    d) 10

35. The correlation for the values of two variables moving in the same direction is
    a) Perfect positive
    b) Negative
    c) Positive
    d) No correlation

36. Which of the following waves have the shortest wavelength in air?
    a) Ultrasonic waves
    b) Audible sound waves
    c) Infrasonic waves
    d) Radio waves

37. Which of the following is an application of NMR?
    a) Determining mass of an atom
    b) X-ray diffraction
    c) Chromatography
    d) Structure determination of organic compounds

38. The relation between Cp and Cv for an ideal gas is given by:
    a) $Cp = Cv$
    b) $Cp - Cv = R$
    c) $Cp + Cv = R$
    d) $Cp = 2Cv$

39. Which pair has the same dimensions?
    a) Work and Power
    b) Density and Relative Density
    c) Momentum and Impulse
    d) Stress and Strain

40. Poisson's ratio is given by:
    a) Longitudinal strain / Lateral strain
    b) Lateral strain / Longitudinal strain
    c) Longitudinal stress / Lateral strain
    d) Lateral stress / Longitudinal strain

41. The principle of buoyancy was given by:
    a) Bernoulli
    b) Archimedes
    c) Pascal
    d) Newton

42. Which of the following is true about loss factor of food?
    a) It is desirable quality of food
    b) It is the ability of food to absorb waves
    c) It is represented by ε
    d) All of the mentioned

43. The approximate temperature difference that occurs when 50 Kg of water absorbs 500 K J of heat
    a) $10\ ^0C$
    b) $2.4\ ^0C$
    c) $4.2\ ^0C$
    d) $42\ ^0C$

44. The relation between half-life ($t_{1/2}$) and decay constant (λ) is:
    (a) $\lambda = 1 / t_{1/2}$
    (b) $\lambda = 0.693 / t_{1/2}$
    (c) $\lambda = 2.303 / t_{1/2}$
    (d) $\lambda = t_{1/2} / 0.693$

45. Which of the following reagents can distinguish between primary, secondary, and tertiary alcohols?
    a) Lucas reagent
    b) Tollens' reagent
    c) Fehling's solution
    d) Grignard reagent

46. The rate of a reaction is doubled when the concentration of the reactant is doubled. The order of the reaction **is:**
    a) Zero
    b) Half
    c) One
    d) Two

47. The acid strength of the following compounds decreases in the order: Formic acid, acetic acid, propanoic acid. What is the correct order?
    a) Propanoic> Formic > Acetic
    b) Acetic >Propanoic> Formic
    c) Formic > Acetic >Propanoic
    d) Acetic > Formic >Propanoic

48. Lambert-Beer law relates absorbance to:
    a) Wavelength and temperature
    b) Concentration and path length
    c) Pressure and temperature
    d) Time and frequency

49. Methyl orange is an example of:
    a) Basic dye
    b) Acid dye
    c) Azo dye
    d) Vat dye

50. Which of the following is a synthetic polymer?
    a) Starch
    b) Silk
    c) Protein
    d) Polystyrene

51. In which of the following molecules SP^2 hybridization is observed
    a) BF_3
    b) NH_3
    c) H_2O
    d) SF_4

52. Cellular organelles with membranes are:
    a) Nucleus, centrosomes and mitochondria.
    b) Ribosome, centrosome and endoplasmic reticulum.
    c) Endoplasmic reticulum, centrosome and nucleus
    d) Lysosomes, Golgi apparatus and mitochondria

53. The mitotic spindle is formed during which phase of mitosis?
    a) Metaphase
    b) Prophase
    c) Anaphase
    d) Telophase

54. From which organism is thermostable DNA polymerase obtained?
    a) *Haemophilus influenza*
    b) *Escherichia coli*
    c) *Thermusaquaticus*
    d) *Salmonella typhimurium*

55. The plant hormone which induce closure of the stomata in stressful conditions is:
    a) Cytokinin
    b) Gibberlic Acid
    c) Abscisic Acid
    d) Auxin

56. How many oxygen molecules can be carried by one molecule of haemooglobin?
    a) One
    b) Two
    c) Three
    d) Four

57. Match List-I with List-II.

	List-I		List-II
A.	Fat soluble vitamin present in vegetable oil	I.	Vitamin A
B.	Water soluble vitamin present in citrus fruit	II.	Vitamin E
C.	Vitamin present in Carrot	III.	Vitamin C
D.	Convulsion is caused by deficiency of	IV.	Vitamin B_6

Choose the **correct** answer from the options given below:
    a) A-III, B-I, C-II, D-IV
    b) A-I, B-III, C-IV, D-II
    c) A-II, B-III, C-I, D-IV
    d) A-I, B-II, C-III, D-IV

58. The oxygenation activity for RuBisCO enzyme in photorespiration leads to the formation of:
    a) One molecule of 3-C compound only.
    b) One molecule of 6-C compound.
    c) One molecule of 3-C compound and one molecule of 2-C compound.
    d) Two molecule of 3-C compound.

59. Calvin pathway occurs in:
    a) All photosynthetic plants.
    b) Photosynthetic plants which have C3 pathway only.
    c) Photosynthetic plants which have C4 pathway only
    d) Tropical plants only

60. What is the main active ingredient in turmeric used for its medicinal properties?
    a) Curcumin
    b) Alkaloids
    c) Saponins
    d) Tannins

Sr. No. 181

ENTRANCE TEST-2024

SCHOOL OF APPLIED SCIENCES & TECHNOLOGY

FOOD TECHNOLOGY

Question Booklet Series **A**

Total Questions : 60

Time Allowed : 70 Minutes

Roll No. : | | | | | | |

Instructions for Candidates :

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SEAL

1. DNA is not present in one of the following :
   (A) Mitochondria
   (B) Chloroplast
   (C) Bacteriophage
   (D) Tobacco mosaic virus

2. A cell increases in volume when placed in a solution which is :
   (A) Isotonic
   (B) Slightly hypertonic
   (C) Hypotonic
   (D) Extremely hypertonic

3. What is the function of DNA ligases ?
   (A) It catalyses the formation of phosphodiester bonds between two DNA fragments
   (B) It catalyses hydrogen bond formation between two DNA fragments
   (C) It is used to synthesize complementary DNA strand on DNA template
   (D) All of these

4. Mitochondria are not found in :
   (A) Nerve cell
   (B) Sperm cell
   (C) Mature RBC
   (D) Mature WBC

5. Largest amount of phosphate bond energy is produced in the process of respiration during :
   (A) Glycolysis
   (B) Krebs Cycle
   (C) Anaerobic respiration
   (D) None of the above

6. Pernicious anemia is caused due to deficiency of :
   (A) Vitamin B_{12}
   (B) Vitamin B_1
   (C) Vitamin C
   (D) Iron

7. In C_3 plants first stable product of photosynthesis during dark reaction is :
   (A) Malic acid
   (B) Oxaloacetic acid
   (C) Phosphoglyceraldehyde
   (D) Phosphoglyceric acid

8. High concentration of synthetic auxins would :
   (A) Prevent lateral buds to grow
   (B) Kill weeds
   (C) Cause root
   (D) Control cell enlargement

9. When the cell is fully turgid, which of the following will be zero ?
   (A) Osmotic pressure
   (B) Turgor pressure
   (C) Wall pressure
   (D) Suction pressure

10. Which of the following is oilseed ?
   (A) *Glycine max*
   (B) *Arachis hypogea*
   (C) *Brassica spp.*
   (D) *All the three*

11. Which of the following vegetables are obtained from plant stems ?
   (A) Potato
   (B) Lotus
   (C) Carrot
   (D) Both (A) and (B)

12. Which of the following spices contains curcumin ?

(A) Turmeric

(B) Ginger

(C) Garlic

(D) Fennel

13. Which part of the human brain is more developed in comparison to others ?

(A) Cerebellum

(B) Cerebrum

(C) Medulla oblongata

(D) Optic lobes

14. In an accident there is a great loss of blood and there is no time to analyze the blood group of the man. Which blood group can be safely transfused ?

(A) AB Rh+

(B) AB Rh–

(C) O Rh–

(D) O Rh+

15. In humans, the urea is mainly produced in :

(A) Kidneys

(B) Gall bladder

(C) Spleen

(D) Liver

16. Acid rains are due to excessive atmospheric pollution due to :

(A) NO_2

(B) SO_2

(C) NH_3

(D) CO_2

17. Dimensional formula for torque is :

(A) L^2T^{-2}

(B) $M L^2 T^{-2}$

(C) ML^2T^{-1}

(D) ML^2T^2

18. Two water droplets merge with each other to form a larger droplet. In this process :

(A) Energy is liberated

(B) Energy is absorbed

(C) Energy is neither liberated nor absorbed

(D) Some mass is converted into energy

19. A piece of ice having a stone frozen in it floats in a glass vessel filled with water. How will the level of water in the vessel change when the ice melts ?

(A) the level will rise

(B) the level will not change

(C) the level will drop

(D) some water will flow out

20. The relation between frequency n, wavelength λ and velocity of propagation v of the wave is :

(A) $n = v\lambda$

(B) $n = \lambda/v$

(C) $n = 1/\lambda$

(D) $n = v/\lambda$

21. Which of the following metals can deposit copper from copper sulphate solution ?

(A) Mercury

(B) Iron

(C) Gold

(D) Platinum

22. If a chemical change is bought about by one or more method, in one or more steps, then the amount of heat absorbed or evolved during the complete change is the same, whichever method was followed. The rule is known as :

(A) Joule Thomson effect

(B) Le Chatelier principle

(C) Hess law

(D) None of these

23. A piece of glass is heated to a high temperature and then allowed to cool. If it cracks, a probable reason for this is the following property of glass :

(A) Low thermal conductivity

(B) High thermal conductivity

(C) High specific heat

(D) High melting point

24. Microwaves are the electromagnetic waves with frequency of :

(A) 300 MHz – 300 GHz

(B) 30 MHz – 300 MHz

(C) 50 MHz – 500 MHz

(D) 500 MHz – 500 GHz

25. Na+ is isoelectronic with :

(A) Li^+

(B) Mg^{2+}

(C) Ca^{2+}

(D) Ba^{2+}

26. Which of the following is soluble in water ?

(A) C_2H_5OH

(B) CS_2

(C) CH_3OH

(D) Both (A) and (C)

27. The osmotic pressure of solution increases if :

(A) Temperature is decreased

(B) Solution constant is increased

(C) Number of solute molecules is increased

(D) Volume is increased

28. Phenolphthalein acts as an indicator in the pH range of :

(A) 4.5-6.5

(B) 6.8-7.0

(C) 8.3-10.0

(D) None of the three

29. Why alcohols have higher boiling points than the hydrocarbons from which they are derived ?

(A) Due to higher molecular weight

(B) Due to the presence of hydroxyl groups

(C) Due to hydrogen bonding between molecules

(D) Due to polymerization of molecules

30. If formaldehyde and KOH are treated together, we get :

(A) Methane

(B) Acetylene

(C) Ethyl acetate

(D) Methanol

31. If 1, w, w^2 are the cube roots of unity, then $1+w+w^2=?$

(A) 0

(B) –1

(C) 2

(D) 3

32. For small values of θ, $\sin\theta = ?$

(A) 1

(B) θ

(C) 0

(D) None of these

33. If $x+y=k$ is normal to a parabola $y^2=12x$, then $k=?$

(A) 3

(B) –9

(C) +9

(D) –3

34. For what value of k, $\int (x/1+x^4)\,dx = k$:

(A) $\tan x^2 + c$

(B) $\tan^{-1}x^2 + c$

(C) $\frac{1}{2}\tan^{-1} x^2 + c$

(D) None of them

35. The degree and order of a differential equation $x^2d^3y/dx^3 + (d^2y/dx)^5 + 2y = e^{-x}$ are respectively given by :

(A) (2, 3)

(B) (1, 2)

(C) (3, 5)

(D) (1, 3)

36. The product AB of two matrices A & B is possible if :

(A) The number of columns in A is equal to the number of rows in B

(B) The number of rows in A is equal to the number of columns in B

(C) Both statements (A) & (B) are correct

(D) Neither (A) nor (B) is correct

37. A polynomial equation $x^3-1=0$ has :

(A) One real root

(B) One complex root

(C) All real roots

(D) None of these

38. Production of polished rice involves :

(A) Removal of husk

(B) Removal of husk and bran

(C) Coating of dehusked rice with edible polish

(D) None of the three

39. Which of the following grains are good sources of soluble fiber β- glucan ?

(A) Oat

(B) Barley

(C) Both (A) and (B)

(D) None

40. Role of salt in pickles is :

(A) controls the fermentation

(B) improves taste and flavour

(C) hardens the texture

(D) all the three

41. Equilibrium moisture content of food depends on :

(A) relative humidity

(B) air temperature

(C) nature of food

(D) all the three

42. Protein content of red meat is around :

(A) 15 g/100g

(B) 20 g/100g

(C) 30 g/100g

(D) 32 g/100g

43. Freezer burn of meat is due to :

(A) Over roasting of meat

(B) Rupture of cells due to large ice crystal formation

(C) Drying of the surface of frozen meat in freezer

(D) All the three

44. On an average cholesterol content of an egg is :

(A) 50 mg

(B) 100 mg

(C) 150 mg

(D) 200 mg

45. Moisture content of Ghee as per FSSAI standards should not be more than :

(A) 0.5%

(B) 1%

(C) 1.5%

(D) 2%

46. Specific gravity of cow milk increases on :

(A) Addition of skim milk powder

(B) Removal of cream

(C) Addition of sugar

(D) All the three

47. Which of the following bacterial species is known for its high rate of biomass production?

(A) *Methylophilus methylotrophus*

(B) *Xanthomonas*

(C) *Clostridium*

(D) *Rhizomonas*

48. Which of the following microbe is used in the production of blue cheese?

(A) *Streptococcus thermophilus*

(B) *Lactobacillus bulgaricus*

(C) *Penicillium roqueforti*

(D) *Rhizopus stolonifera*

49. Bacterial cell grown on hydrocarbon wastes from the petroleum industry are a source of :

(A) carbohydrates

(B) proteins

(C) vitamins

(D) fats

50. Fungi are :

(A) prokaryotic

(B) eukaryotic

(C) prokaryotic and lack chlorophyll

(D) eukaryotic and lack chlorophyll

51. Find the mode of the data: 11,13,13,17,19,23,25 :

(A) 11

(B) 13

(C) 17

(D) 23

52. Variability of population is checked by :

(A) Mean

(B) Mode

(C) Median

(D) Standard Deviation

53. If the values of two variables move in the opposite direction :

(A) The correlation is said to be linear

(B) The correlation is said to be non-linear

(C) The correlation is said to be positive

(D) The correlation is said to be negative

54. What is the meaning of the testing of the hypothesis ?

(A) It is a significant estimation of the problem

(B) It is a rule for acceptance or rejection of the hypothesis of the research problem

(C) It is a method of making a significant statement

(D) None of the above

55. Which of the following is a carotenoid ?

(A) Lycopene

(B) β carotene

(C) Lutein

(D) All the three

56. Which of the following is exopeptidase ?

(A) Pepsin

(B) Trypsin

(C) Chymotrypsin

(D) Carboxypeptidases

57. Potatoes, cereals, beans, pulses and oats are rich in ?

(A) Protein

(B) Vitamins

(C) Carbohydrates

(D) Minerals

58. Which of the following has emulsifying properties ?

(A) Phospholipids

(B) Monoglycerides

(C) Diglycerides

(D) All the three

59. Fish spoils faster due to :

(A) High pH of the muscles postmortem

(B) Highly unsaturated body fat

(C) Autolysis of muscles

(D) All the above

60. Which of the following aims at food safety ?

(A) HACCP

(B) GMP

(C) GAP

(D) All the three