

Sr No.	MSc Food Science and Technology
1	Find the next term in the series: BMO, EOQ, HQS, ?
Alt1	KSU
Alt2	LMN
Alt3	SOV
Alt4	SOW

2	Choose word from the given options which bears the same relationship to the third word, as the first two bears: Misogamy: Marriage:: Misogyny:?
Alt1	Children
Alt2	Husband
Alt3	Relations
Alt4	Women

3	Select the lettered pair that has the same relationship as the original pair of words: Indolence : Beaver
Alt1	Elegance: Peacock
Alt2	Ferocity: Lamb
Alt3	Passivity: Cow
Alt4	Joviality: Hyena

4	Select the lettered pair that has the same relationship as the original pair of words: Man : Humanity
Alt1	Frame: Picture
Alt2	Scholar: Books
Alt3	Flowers: Fragrance
Alt4	Drop: Ocean

5	Choose the set that has the same relationship as in the original: Horse : Foal : Mare
Alt1	Sheep: lamb: Goat
Alt2	Lion: Cub: Den
Alt3	Man: Child: Woman
Alt4	Cat: Kitten: Puppy

6	Spot the defective segment from the following:
Alt1	I didn't expect
Alt2	this kind of treatment
Alt3	from your hands
Alt4	this morning

7	Many rural children go to school -----.
Alt1	by foot
Alt2	by walk
Alt3	on foot
Alt4	on their feet

8	----- is facing the threat of extinction.
Alt1	Tigers
Alt2	Tiger
Alt3	The tiger
Alt4	A tiger

9	Choose the option closest in meaning to the given word: TERSE
Alt1	concise
Alt2	curt
Alt3	rude
Alt4	poetic

10	Choose the antonymous option you consider the best: RETICENT
Alt1	communicative
Alt2	clamorous
Alt3	reserved
Alt4	dormant

11	In each of the following questions some statements are followed by two conclusions (i) and (ii). Read the statements carefully and then decide which of the conclusions follow beyond a reasonable doubt. Mark your answer as Statement: I am a Kashmiri Pandit and feel proud that Indira Gandhi belonged to the same community Conclusions: (i) Indira Gandhi is proud of being a Kashmiri Pandit (ii) All Kashmiri Pandits feel proud of Indira Gandhi
Alt1	If only conclusion (i) follows
Alt2	If only conclusion (ii) follows
Alt3	If neither conclusion (i) nor (ii) follows
Alt4	If both the conclusions follow

12	What value should come in place of question mark (?) in the following number series? 48, ?, 94, 123, 156, 193
Alt1	74
Alt2	65
Alt3	69
Alt4	77

13	If in a certain language CARROM is coded as BZQQNL, which word will be coded as HOUSE ?
Alt1	IPVTF
Alt2	GNTRD
Alt3	INVRF

Alt4	GPTID
14	Teeth : Chew in the same way as
Alt1	Mind : Think
Alt2	Food : Taste
Alt3	Sweater : Heat
Alt4	Eyes : Flicker
15	The following information is given: Eight persons P, Q, R, S, T, U, V and W are sitting around a rectangular table in such a way that two persons sit on each of the four sides of the table facing the centre. Persons sitting on opposite sides are exactly opposite to each other. S faces North and sits exactly opposite W. T is on the immediate left to W. P and V sit on the same side. V is exactly opposite Q, who is on the immediate right of R. U is next to the left of S. Who is sitting opposite to P ?
Alt1	V
Alt2	S
Alt3	T
Alt4	R
16	There are 4 prime numbers written in ascending order. The product of the first three is 385, and that of the last three is 1001, Find the first number
Alt1	5
Alt2	11
Alt3	29
Alt4	19
17	Mean of the first 10 even numbers is
Alt1	12
Alt2	11
Alt3	14
Alt4	9
18	If you were to spell out the numbers, how far would you have to go before encountering the letter 'A'?
Alt1	91
Alt2	21
Alt3	51
Alt4	101
19	A man starts from his office and goes 5 Kms east, Then he turn to the left and again walks for 3 Kms, he turns left and walks 5 kms. At what distance is he from the starting point?
Alt1	3
Alt2	4
Alt3	6
Alt4	7

20	The first person is 100cm tall. Each subsequent person is 20% taller than the previous person. What is the Median height of 5 persons.
Alt1	173
Alt2	120
Alt3	144
Alt4	207

21	SI unit for is kelvin
Alt1	Luminous intensity
Alt2	Electric current
Alt3	Energy
Alt4	Temperature

22	Force required to slide one layer from another measures the
Alt1	Viscosity
Alt2	friction
Alt3	gravity
Alt4	surface tension

23	An object moving through liquid facing retarding force is called as
Alt1	viscosity
Alt2	friction
Alt3	drag force
Alt4	surface tension

24	Which of the following is not a method of heat transfer?
Alt1	Conduction
Alt2	Convection
Alt3	Condensation
Alt4	Radiation

25	Group of salt loving microbes are called
Alt1	Mesophiles
Alt2	Halophiles
Alt3	Psychrophiles
Alt4	Heterophiles

26	Fish hydrolysates are rich in
Alt1	Proteins
Alt2	Lipids
Alt3	Vitamins
Alt4	Minerals

27	Endospores are produced by only
Alt1	Gram positive bacteria
Alt2	Gram negative bacteria
Alt3	both of these

Alt4	none of these
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28	Production of bacteriocin in food is considered as
Alt1	implicit factor
Alt2	intrinsic factor
Alt3	processing factor
Alt4	explicit factor

29	India is a largest producer of meat in the world.
Alt1	Sheep
Alt2	Goat
Alt3	Pig
Alt4	Buffalo

30	For the production of hygienic and safe meat, India primarily needs.....
Alt1	Modern abattoirs
Alt2	Proper animal breeding practices
Alt3	Proper feeding practices for animals
Alt4	Good systems for marketing of animals

31	The storage polysaccharide is
Alt1	Glucose
Alt2	Glycogen
Alt3	Glucagon
Alt4	Glycated Hb

32	Vitamin K is essential for
Alt1	Skin health
Alt2	Blood coagulation
Alt3	Normal metabolism
Alt4	Heart function

33	The major active ingredients in turmeric is
Alt1	Piperine
Alt2	Curcumin
Alt3	Capsaicin
Alt4	Gingerol

34	Co-factors of an enzyme :
Alt1	Block enzyme activity
Alt2	Assist enzyme in catalysis
Alt3	Enhance enzyme activity
Alt4	Increase the activation energy of the enzymatic reaction

35	Fats are _____ at room temperature
Alt1	Liquid
Alt2	Gaseous

Alt3	Solid
Alt4	Semi liquid

36	The principal buffering compounds in milk are
Alt1	Fat
Alt2	Lactose
Alt3	Salts and proteins
Alt4	Water

37	Casein in fresh raw milk is present in ----- form
Alt1	micellar
Alt2	globular
Alt3	solution
Alt4	insoluble

38	The enzyme used to detect hydrogen peroxide in milk is
Alt1	Lipase
Alt2	Proteinases
Alt3	Catalase
Alt4	Lactoperoxidase

39	Quantitative PCR (qPCR) is also called as
Alt1	Multiplex PCR
Alt2	Nested PCR
Alt3	Real-time PCR
Alt4	Touchdown PCR

40	Which fat soluble vitamin plays a major role in absorption of calcium and phosphorus?
Alt1	Vitamin A
Alt2	Vitamin D
Alt3	Vitamin E
Alt4	Vitamin K

41	Lipid oxidation during early stage is due to
Alt1	Free radicals
Alt2	Browning
Alt3	Lipoxygenase
Alt4	Processing

42	High pressure liquid chromatography is _____ technique.
Alt1	Separation
Alt2	novel
Alt3	Vacuum creating
Alt4	hi-tech

43	Cobalt – 60 and Cesium – 137 produce useful for food irradiation
Alt1	Gamma rays

Alt2	X rays
Alt3	Ultraviolet rays
Alt4	Infra red rays

44	Damage caused to proteins by irradiation of food includes
Alt1	Formation of nitrogen oxides
Alt2	Formation of actomyosin complex from actin and myosin
Alt3	Breakage of peptide bonds
Alt4	Formation of lipoprotein

45	Ecosapentaenoic acid (EPA) is
Alt1	Saturated fatty acid
Alt2	Omega-6 fatty acid
Alt3	Omega-3 fatty acid
Alt4	Essential amino acid

46	Fat provides _____ kcal of energy per gram.
Alt1	9 kcal
Alt2	7 kcal
Alt3	4 kcal
Alt4	5 kcal

47	Marmalades are made from
Alt1	Citrus
Alt2	Apples
Alt3	Strawberry
Alt4	Papaya

48	The term specific gravity is used to denote the ratio between the weight of a substance and the weight of an equal volume of
Alt1	Water
Alt2	Alcohol
Alt3	Chloroform

49	The efficiency of pasteurization of milk is tested by
Alt1	Plating for pathogens
Alt2	Alkaline phosphatase test
Alt3	Lipase test
Alt4	Organoleptic test

50	The chemical name for Vitamin C is _____
Alt1	Carotene
Alt2	Tocopherol
Alt3	Ascorbic acid
Alt4	Biotin

51	Vanaspati is a _____ fat
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Alt1	Monounsaturated
Alt2	Polyunsaturated
Alt3	Essential
Alt4	Trans

52	Fats/ lipids are transported in blood in combination with proteins in the form of _____.
Alt1	Lipoproteins
Alt2	Cholesterol
Alt3	Phytosterol
Alt4	Lecithin

53	Negative nutritional quality of meat includes
Alt1	High level of saturated fatty acids
Alt2	Low level of cholesterol
Alt3	Low level of sodium
Alt4	Poor supply of vitamins

54	Viscosity of ethanol at 30 °C is
Alt1	0.801
Alt2	1
Alt3	6
Alt4	6.29

55	The conversion factor for nitrogen to muscle protein is
Alt1	5.5
Alt2	5.8
Alt3	6.25
Alt4	6.75

56	Exposure of meat to high temperatures in canning imparts in meat.
Alt1	Rancid flavor
Alt2	Peasant flavor
Alt3	Sulphydryl flavor
Alt4	Meaty flavor

57	Lecithin is the most common _____
Alt1	Glycolipid
Alt2	Sulpholipid
Alt3	Phospholipid
Alt4	Aminolipids

58	Tetrahydrofolate is a co-enzyme of:
Alt1	Pyruvate dehydrogenase
Alt2	Acetyl CoA carboxylase
Alt3	Thymidylate synthase
Alt4	Cytochrome oxidase

59	The intake of PUFA should be _____ of energy intake.
Alt1	0-5%
Alt2	5-10%
Alt3	8-10%
Alt4	>20%

60	_____ is the only selenoprotein enzyme well studied for the biological role of selenium
Alt1	Xanthine oxidase
Alt2	Aldehyde oxidase
Alt3	Sulfite oxidase
Alt4	Glutathione peroxidase

61	Di sulfide bonds are formed between _____
Alt1	Side chain amino & carboxyl group
Alt2	two carboxylic groups
Alt3	Two amino groups
Alt4	two sulfur amino acids

62	Retinal is converted to retinol by
Alt1	Retinal dehydrogenase
Alt2	Retinol dehydrogenas
Alt3	Lipase
Alt4	Retinol esters

63	For the laminar flow, the Reynolds number should be less than
Alt1	2100
Alt2	3100
Alt3	5100
Alt4	4100

64	For the flow of fluid we need difference in
Alt1	moisture content
Alt2	force
Alt3	concentration
Alt4	pressure

65	Hops are used in the manufacture of
Alt1	brandy
Alt2	whisky
Alt3	wine
Alt4	beer

66	Operating speed of ball mill must be less than
Alt1	critical speed
Alt2	normal speed
Alt3	centrifugal speed
Alt4	operating speed

67	pH of honey is
Alt1	2.9
Alt2	5.6 - 6.9
Alt3	3.2 - 4.2
Alt4	7.0 - 8.1

68	Which bean is used for extraction of gum?
Alt1	cluster bean
Alt2	hyacinth bean
Alt3	french bean
Alt4	broad bean

69	Calcium chloride can be used as
Alt1	firing agent
Alt2	firming agent
Alt3	foaming agent
Alt4	antiseptic

70	Canning also sometimes called as
Alt1	sterilization
Alt2	pasteurization
Alt3	appertization
Alt4	cold sterilization

71	The ribbon blender mix solids by
Alt1	sedimentation
Alt2	electrical shuffling
Alt3	mechanical shuffling
Alt4	centrifugation

72	TSS for tomato ketchup should not be less than
Alt1	0.25
Alt2	0.35
Alt3	0.39
Alt4	0.4

73	Oil content (Whole mass basis) in rice bran ranges between
Alt1	8-10%
Alt2	17-22 %
Alt3	11-16 %
Alt4	25-35 %

74	Parboiling is a _____ treatment.
Alt1	hydrothermal
Alt2	physical
Alt3	chemical

Alt4	thermal
75	Separation on the basis of roundness is accomplished by
Alt1	indented cylinder separator
Alt2	aspiration separator
Alt3	roll separator
Alt4	spiral separator
76	Jensenn equation is related to
Alt1	storage silo design
Alt2	grain transportation system
Alt3	size separation of grains
Alt4	size reduction of particle
77	Oleic acid can be transferred into its trans form upon:-
Alt1	hydrogenation
Alt2	cooling
Alt3	solidification
Alt4	heating
78	Spinach is rich in
Alt1	Vitamin E
Alt2	Vitamin A
Alt3	Vitamin B
Alt4	Vitamin C
79	Stokes law is used to find the following of a particle moving through a fluid.
Alt1	drag coefficient
Alt2	terminal velocity
Alt3	friction coefficient
Alt4	settling velocity
80	The removal of water from a food material by sublimation from the frozen state to the vapour state is known as
Alt1	cryogenic freezing
Alt2	freeze concentration
Alt3	freeze drying
Alt4	heat pump drying
81	The product derived out of milk after removal of cream is known as
Alt1	butter milk
Alt2	whey
Alt3	skimmed milk
Alt4	curd
82	In thermal processing of food destruction of microorganism is governed by an equation having the following order.

Alt1	zero
Alt2	first
Alt3	second
Alt4	third

83	The specific gravity of milk will increase with the
Alt1	removal of cream and water
Alt2	addition of cream
Alt3	addition of water
Alt4	removal of water

84	A cyclone separator is used
Alt1	for separating dust particles from air
Alt2	for mixing solid in air
Alt3	for controlling air flow rate
Alt4	for mixing gas with air

85	Separation of dissolved solids from by application of pressure is
Alt1	filtration
Alt2	vacuum filtration
Alt3	membrane separation
Alt4	pressing

86	Heat removing capacity of one tonne refrigerator is _____ kcal /min.
Alt1	300
Alt2	50
Alt3	3000
Alt4	600

87	COP is always _____ unity in vapour compression refrigerators.
Alt1	less than
Alt2	equal to
Alt3	more than
Alt4	none of the above

88	In sieve analysis the screen openings are maintained _____ times of the previous screen opening.
Alt1	square
Alt2	square root
Alt3	cube
Alt4	cube root

89	Hammer mill works on the principle of
Alt1	centrifugal
Alt2	impact
Alt3	abrasive
Alt4	gravitational

90	_____ is a mechanical separation method
Alt1	distillation
Alt2	evaporation
Alt3	centrifugal separation
Alt4	crystallization

91	Temperature of boiling of a solution is _____ under reduced pressure
Alt1	increased
Alt2	decreased
Alt3	equal
Alt4	unpredictable

92	Water activity for ice at 0oC is
Alt1	0
Alt2	0.5
Alt3	0.75
Alt4	1.0

93	In spray drier particles are separated by
Alt1	cyclone
Alt2	hydro cyclone
Alt3	centrifuge
Alt4	none of these

94	The rate of respiration of paddy increases with increase in
Alt1	moisture content
Alt2	volume
Alt3	mass
Alt4	place of storage

95	Fats are insoluble in
Alt1	solvent
Alt2	preservatives
Alt3	enzymes
Alt4	water

96	The angle of repose of food grains is in the range of
Alt1	10-20°
Alt2	25-35°
Alt3	50-70°
Alt4	above 75°

97	The thermal properties of food grains are
Alt1	specific heat
Alt2	thermal conductivity
Alt3	both

Alt4	none
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98	This is the heat required to raise the temperature of the grain by one degree
Alt1	specific heat
Alt2	thermal conductivity
Alt3	thermal diffusivity
Alt4	None

99	Size reduction increases the
Alt1	surface area
Alt2	particle size
Alt3	reduces particle size
Alt4	increases volume

100	For the Black body the reflectivity and absorptivity are _____
Alt1	same
Alt2	different
Alt3	none
Alt4	higher