Module Name : MSc Food Science and Technology-E
Exam Date : 20-Sep-2020 Batch : 09:00-11:00

Sr. No.	Client Question ID	Question Body and Alternatives	Marks	Negative Marks
Objective Question				
1	1	As per FSSAI (earlier FPO) minimum standards for TSS and fruit pulp/ juice content in RTS are? A1 : 10%; 10% A2 : 15%; 10% A3 : 15%; 15% A4 : 10%; 15%	4.0	1.00
Objective Question				
2	2	Addition of Hops in beer is done to A1 : Enhance fermentation A2 : Settle the yeast A3 : Impart the bitter taste A4 : Speedy maturation	4.0	1.00
Objective Question				
3	3	Pyruvic acid is the end product of A1 : Electron transport system A2 : Phosphate metabolism A3 : Glycolysis A4 : Fat metabolism	4.0	1.00
Objective Question				
4	4	Exhausting of cans is done to A1 : Sterilize the cans	4.0	1.00

		A2 : Raise the sugar content A3 : Remove the acid A4 : Expel the entrapped air in the contents		
Objective Question				
5	5	Out of these quality standards which are mandatory standards A1 : Legal standards A2 : Company standards A3 : Industry standards A4 : Grade standards	4.0	1.00
Objective Question				
6	6	Asafoetida is adulterated with A1 : Resin or gum A2 : Fat and oil A3 : Water A4 : Papaya seed	4.0	1.00
Objective Question				
7	7	ISO 9000:2005 Quality management systems deals with A1 : Fundamentals and vocabulary A2 : Customer satisfaction A3 : Guidelines for performance improvements A4 : Requirements	4.0	1.00
Objective Question				
8	8	Gluten is viscous and elastic in nature and is combination of A1 Gliadin and glutenin	4.0	1.00

		: A2 : Glutenin and starch A3 : Albumin and Globulin A4 : Globulin and gliadin		
Objective Question				
9	9	Cysts and trophozoites belong to which microbes A1 : Bacteria A2 : Virus A3 : Parasite A4 : Fungi	4.0	1.00
Objective Question				
10	10	Sugar is adulterated with A1 : Chalk powder A2 : Fat and oil A3 : Sand A4 : Sodium	4.0	1.00
Objective Question				
11	11	Greening of sausage is caused by A1 : *Lactobacillus and Leuconostoc* A2 : *Pseudomonas and Achromobactor* A3 : *Micrococcus* A4 : *Streptococcus*	4.0	1.00
Objective Question				
12	12	Out of these, which bacteria is found in fresh/refrigerated meat	4.0	1.00

		A1 : *Lactobacillus* A2 : *Serratia* A3 : *Staphylococcus* A4 : *Moraxella*		
Objective Question				
13	13	The percentage fat constituent of double toned milk is A1 : 0.5 A2 : 1.5 A3 : 3.0 A4 : 4.5	4.0	1.00
Objective Question				
14	14	“Clinching” is a term related to A1 : Freezing A2 : Canning A3 : Fermentation A4 : Drying	4.0	1.00
Objective Question				
15	15	Vitamin C and vitamin E, BHA and BHT, and sulfites are all A1 : Flavor enhancer A2 : Antimicrobial agent A3 : Incidental food agent A4 : Antioxidants	4.0	1.00

Objective Question				
16	16	With ageing/storage air cell inside egg shell becomes A1 : Small A2 : Large A3 : Air cell expands A4 : Medium	4.0	1.00
Objective Question				
17	17	Golden rice is a transgenic crop of the future with following improved trait A1 : Insect resistance A2 : High protein content A3 : High vitamin A content A4 : High lysine content	4.0	1.00
Objective Question				
18	18	Probiotics are A1 : Cancer inducing microbes A2 : Live microbial supplements A3 : Safe antibiotics A4 : New kind of food allergens	4.0	1.00
Objective Question				
19	19	What is the reason for blanching vegetables prior to freezing? A1 : To improve colour A2 : To improve texture A3 : To increase the nutrient content A4 To denture enzymes	4.0	1.00

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Objective Question				
20	20	MPN stands for? A1 : Most probable number A2 : Minimum probable number A3 : Multi probable number A4 : Maximum probable number	4.0	1.00
Objective Question				
21	21	The preservation technique using radiation is also known as A1 : Cold sterilization A2 : Heat sterilization A3 : Uperization A4 : Dry sterilization	4.0	1.00
Objective Question				
22	22	Phosphatase test is used in the analysis of? A1 : Milk A2 : Meat A3 : Sugar A4 : Cereals	4.0	1.00
Objective Question				
23	23	Monosodium glutamate is used as? A1 : Thickening agent A2 : Colour enhancer A3 : Flavour enhancer	4.0	1.00

		A4 : Antimicrobial agent		
Objective Question				
24	24	*Bacillus thurigiensis* is used to control A1 : Nematodes A2 : Fungal pathogens A3 : Insect pests A4 : Bacterial pathogens	4.0	1.00
Objective Question				
25	25	The GM brinjal in India has been developed for A1 : Enhancing shelf life A2 : Insect- resistance A3 : Drought resistance A4 : Enhancing mineral content	4.0	1.00
Objective Question				
26	26	The animal which causes brain fever is A1 : Dog A2 : Cat A3 : Bat A4 : Pig	4.0	1.00
Objective Question				
27	27	Reserve fuel supply and basic fuel supply are the function of A1 : Fats A2 : Carbohydrates	4.0	1.00

		A3 : Proteins A4 : Vitamins		
Objective Question				
28	28	Magnetron is used for the production of A1 : X-rays A2 : Cathode rays A3 : Microwaves A4 : Positive rays	4.0	1.00
Objective Question				
29	29	The unit of refractive index is A1 : Meter A2 : Degree A3 : No unit A4 : Second	4.0	1.00
Objective Question				
30	30	Heavy use of soy products as a substitute for meat can inhibit absorption of A1 : Calcium A2 : Folate A3 : Vitamin D A4 : Iron	4.0	1.00
Objective Question				
31	31	The heat of neutralization is constant for A1 : Strong acid-strong base A2 Strong acid-weak base	4.0	1.00

		: A3 : Weak acid-strong base A4 : Weak acid- weak base		
Objective Question				
32	32	In every cell, the number of t-RNA molecules are atleast A1 : 10 A2 : 15 A3 : 20 A4 : 25	4.0	1.00
Objective Question				
33	33	Laser is a device to produce A1 : Magnetic waves A2 : Micro waves A3 : Coherent waves A4 : X-rays	4.0	1.00
Objective Question				
34	34	The tallest living tree is A1 : Pinus A2 : Palm tree A3 : Sequoia A4 : Fern	4.0	1.00
Objective Question				
35	35	Venation means the arrangement of leaf A1 : On the stem	4.0	1.00

		A2 : On the root A3 : Inside the bud A4 : Outside the bud		
Objective Question				
36	36	Ginseng is derived from A1 : Papaver A2 : Cinchona A3 : Panex ginseng A4 : Ephedra	4.0	1.00
Objective Question				
37	37	Cissus quadrangularis is a member of A1 : Rhamnaceae A2 : Oleaceae A3 : Lilliaceace A4 : Vitaceae	4.0	1.00
Objective Question				
38	38	Dendrochronology is the study of A1 : Height of a tree A2 : Diameter of a tree A3 : Age of a tree with the help of annual rings A4 : Counting the number of branches	4.0	1.00
Objective Question				
39	39	Pillar roots of banyan help in	4.0	1.00

		A1 : The absorption of water A2 : The support of the branches A3 : The production of more leaves A4 : The support of leaves		
Objective Question				
40	40	Angiosperms are A1 : Cryptogams A2 : Non-flowering plant A3 : Spermatophytes A4 : Non- spermatophytes	4.0	1.00
Objective Question				
41	41	Which of the following flowers is unisexual? A1 : Pea A2 : Gram A3 : Bottle guard A4 : Mustard	4.0	1.00
Objective Question				
42	42	Of the following which one is a poisonous snake? A1 : Eryx Johni A2 : Rat snake A3 : Sea snake A4 : Green snake	4.0	1.00
Objective Question				

43	43	The fungal derivative used in the treatment of tuberculosis is A1 : Aspirin A2 : Streptomycin A3 : Anacin A4 : Tetracycline	4.0	1.00
Objective Question				
44	44	The theory of jumping genes was propounded by A1 : Gregor Johann Mendel A2 : Thomas Hunt Morgan A3 : Barbara McClintock A4 : Watson and Crick	4.0	1.00
Objective Question				
45	45	What is the average fat content of buffalo milk? A1 : 7.2% A2 : 4.5% A3 : 9.0% A4 : 10.0%	4.0	1.00
Objective Question				
46	46	Which part is insensitive to pain? A1 : Liver A2 : Heart A3 : Brain A4 : Lungs	4.0	1.00

Objective Question				
47	47	Which most vital system is absent in tapeworm? A1 : Digestive A2 : Nervous A3 : Excretory A4 : Reproductive	4.0	1.00
Objective Question				
48	48	The length of blood vessels in a human body is A1 : Six feet A2 : 10,000km A3 : 50,000km A4 : 96,000km	4.0	1.00
Objective Question				
49	49	Haemoglobin is dissolved in the plasma of A1 : Frog A2 : Fish A3 : Man A4 : Earthworm	4.0	1.00
Objective Question				
50	50	In man the salivary glands are A1 : 1 pair A2 : 2 pairs A3 : 3 pairs	4.0	1.00

		A4 : 4 pairs		
Objective Question				
51	51	Which of the following foods is produced by fermentation involving lactic acid bacteria? A1 : Beer A2 : Coffee A3 : Yoghurt A4 : Vinegar	4.0	1.00
Objective Question				
52	52	What is the primary reason for blanching of foods? A1 : Prevents pest infestation A2 : Inactivates enzymes found in the food A3 : Cleans the food A4 : Prevents food from drying out the food	4.0	1.00
Objective Question				
53	53	What is the operating principle behind oven drying for determining moisture content of foods? A1 : Colour change is measured A2 : Loss of weight represents loss of water A3 : Change in refractive index is measured A4 : Change in light absorbance is measured	4.0	1.00
Objective Question				
54	54	Which of the following packages is an example of aseptic packaging? A1 : Tetra Pak drinking boxes A2 : Paper bag A3 Milk carton	4.0	1.00

		: A4 : Plastic bread bag		
Objective Question				
55	55	Which gas causes fruits to ripen? A1 : Carbon monoxide A2 : Propane A3 : Ethylene A4 : Nitrogen	4.0	1.00
Objective Question				
56	56	A food with a pH of 3.5 is considered to be: A1 : Neutral A2 : Low acid A3 : High acid A4 : Non acid	4.0	1.00
Objective Question				
57	57	Which of the following chemicals is a solvent used for testing fat content? A1 : Hydrochloric acid A2 : Sodium hydroxide A3 : Amylase A4 : Ether	4.0	1.00
Objective Question				
58	58	Which of the following ingredients in chocolate milk comes from seaweed? A1 : Carrageenan A2 : Glucose	4.0	1.00

		A3 : Sucrose A4 : Cocoa		
Objective Question				
59	59	Which of the following foods is rich in omega3 fatty acids? A1 : Lard A2 : Fatty fish A3 : Butter A4 : Olive oil	4.0	1.00
Objective Question				
60	60	Which microorganism is commonly associated with faecal contamination? A1 : *Clostridium botulinum* A2 : *Campylobacter jejuni* A3 : *Bacillus cereus* A4 : *Trichinella spiralis*	4.0	1.00
Objective Question				
61	61	Which industrial processing method is most effective for making dried potato flakes? A1 : Drum drying A2 : Spray drying A3 : Sun drying A4 : Osmotic dehydration	4.0	1.00
Objective Question				
62	62	What additive in salt prevents the thyroid condition known as goiter? A1 : Sodium caseinate	4.0	1.00

		A2 : Titanium oxide A3 : Cochineal extract A4 : Potassium iodide		
Objective Question				
63	63	Which of the following microorganisms cannot tolerate oxygen? A1 : *Clostridium botulinum* A2 : *Staphylococcus aureus* A3 : *Penicillium roquefortii* A4 : *E. coli*	4.0	1.00
Objective Question				
64	64	What happens to the boiling point of water when it is heated at high altitudes? A1 : Increases A2 : Decreases A3 : Stays at the same A4 : Water doesn’t boil at high altitudes	4.0	1.00
Objective Question				
65	65	Canadian and American laws prescribe how ingredients should be listed on labels. What is the general stipulation with respect to the order that ingredients are listed? A1 : By alphabetical order A2 : By ascending order of proportion by weight A3 : By descending order of proportion by weight A4 : By descending order of proportion by volume	4.0	1.00
Objective Question				
66	66	Which of the following methods is a quick test for sugar content during the early stages of the brewing process for beer?	4.0	1.00

		A1 : Hydrometry A2 : Babcock test A3 : Wet ashing A4 : Soxhlet extraction		
Objective Question				
67	67	Which of the following processing methods involves heating foods at high temperatures for short periods of time in order to reduce the risk of food poisoning? A1 : Blanching A2 : Irradiation A3 : Pasteurization A4 : Ohmic heating	4.0	1.00
Objective Question				
68	68	What causes sliced apples to turn brown? A1 : Caramelization A2 : Staling A3 : Enzyme activity A4 : Protein degradation	4.0	1.00
Objective Question				
69	69	Which of the following does not have antimicrobial activity? A1 : Chlorophyll A2 : Organic acids A3 : Spice extracts A4 : Hydrogen peroxide	4.0	1.00

Objective Question				
70	70	From which plant source is gluten derived? A1 : Soya beans A2 : Corn A3 : Rice A4 : Wheat	4.0	1.00
Objective Question				
71	71	The shape of natural DNA strands cannot be A1 : acetyl CoA carboxylase A2 : AMP activated proteinkinase A3 : protein phosphatase A4 : Protein Synthase	4.0	1.00
Objective Question				
72	72	Arachidonate has 20 carbon atoms with A1 : 3 double bonds A2 : 2 double bonds A3 : 4 double bonds A4 : 8 double bonds	4.0	1.00
Objective Question				
73	73	HDLs are synthesized in A1 : Blood A2 : Liver A3 : Intestine A4 Pancreas	4.0	1.00

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Objective Question				
74	74	For the recovery of citric acid after fermentation, $Ca(OH)_2$ is added to the slurry to A1 : precipitate calcium carbonate A2 : precipitate calcium citrate A3 : precipitate calcium phosphate A4 : precipitate calcium sulphate	4.0	1.00
Objective Question				
75	75	Alegar is a type of vinegar produced from A1 : fruit juices A2 : malted grain A3 : ethanol A4 : ale	4.0	1.00
Objective Question				
76	76	The support material for immobilization of cells of *Bacillus subtilis* is A1 : ion exchange resins A2 : gelatin A3 : Anthracite A4 : agarose and carbodiimide	4.0	1.00
Objective Question				
77	77	The immobilization technique involving physical method is A1 : covalent bond formation dependent A2 : non-covalent bond formation dependent A3 : both covalent bond formation and non-covalent bond formation dependent	4.0	1.00

		A4 : ionic bond formation dependent		
Objective Question				
78	78	The deviation from ideal plug flow due to axial mixing can be described by the A1 : dispersion model A2 : Langmuir model A3 : Friedlander model A4 : Pasceri model	4.0	1.00
Objective Question				
79	79	For laminar flow of Newtonian fluid through a smooth round pipe, the ratio of average fluid velocity to the maximum velocity is A1 : 0.5 A2 : 0.75 A3 : 0.87 A4 : 0.37	4.0	1.00
Objective Question				
80	80	The heat conduction in dry air is A1 : less rapid than in steam A2 : more rapid than in steam A3 : similar to steam A4 : Unsimilar to steam	4.0	1.00
Objective Question				
81	81	Typical aeration rates for aerobic fermentation are A1 : 0 - 0.5 vvm A2 : 0.5 - 1.0 vvm	4.0	1.00

		A3 : 1.0 - 1.5 vvm A4 : 1.5 - 2.0 vvm		
Objective Question				
82	82	Edible part of Mushroom is A1 : Basidiocarp A2 : Primary mycelium A3 : Fungal hyphae A4 : Basidiospores	4.0	1.00
Objective Question				
83	83	Which of these enzymes contains a Zinc (Zn) ion? A1 : Carboxypeptidase A A2 : Phosphorylase B kinase A3 : Tyrosine hydroxylase A4 : Phosphodiesterase	4.0	1.00
Objective Question				
84	84	The lowest yield of ATP is in A1 : fermentation A2 : aerobic respiration A3 : anaerobic respiration A4 : all of these	4.0	1.00
Objective Question				
85	85	Zeolite softening process removes A1 : only temporary hardness of water	4.0	1.00

		A2 : only permanent hardness of water A3 : both temporary and permanent hardness of water A4 : the dissolved gases in permanent hard water		
Objective Question				
86	86	An allosteric inhibitor of an enzyme usually A1 : participates in feedback regulation A2 : denatures the enzyme A3 : is a hydrophobic compound A4 : causes the enzyme to work faster	4.0	1.00
Objective Question				
87	87	Sterilization by radiation is called as A1 : Cold sterilization A2 : Radioisotopes A3 : Radiotype A4 : Rad sterilization	4.0	1.00
Objective Question				
88	88	Which one is an example of syndrome? A1 : MRSA A2 : AIDS A3 : EPEC A4 : TSS	4.0	1.00
Objective Question				
89	89	The shape of natural DNA strands cannot be A1 Circular	4.0	1.00

		: A2 : Linear A3 : Interlocked A4 : Hairpin		
Objective Question				
90	90	Which medium is used for the production of Penicillin using immobilized cells A1 : 1% peptone medium A2 : glucose medium A3 : Yeast extract medium A4 : LB broth	4.0	1.00
Objective Question				
91	91	During sickle cell anemia which of the following takes place A1 : Glutamine change to Valine A2 : Valine change to glutamine A3 : Aspartic acid change to glutamic acid A4 : Glutamic acid change to aspartic acid	4.0	1.00
Objective Question				
92	92	The disorder of which may cause "Ehlers-Danlos Syndrome"? A1 : Dlashin protein A2 : Collagen protein A3 : Fibrin protein A4 : Globulin protein	4.0	1.00
Objective Question				
93	93	The heavily polluted zone of water reservoir is known as	4.0	1.00

		A1 : pleosaprophytic zone A2 : mesosaprophytic zone A3 : oligosaprophytic zone A4 : Endosaprophytic zone		
Objective Question				
94	94	Guanosine nucleotide is held by the cytosine nucleotide by the number of H-bonds A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
95	95	Which of the following gene detoxify herbicide bronoxynil? A1 : Nitrilase A2 : Glutathione S-transferase (GST) A3 : Phosphinothricin acetyl transferase A4 : Protein Phosphatase	4.0	1.00
Objective Question				
96	96	Antisense technology A1 : selectively blocks expression of a gene A2 : combines genetic material from different species A3 : combines organelles and cells A4 : alters or transfers cells	4.0	1.00

Objective Question				
97	97	Which of the following metabolites are implicated in stress tolerance? A1 : Proline A2 : Betaines A3 : Both Proline and Betaines A4 : Citrate	4.0	1.00
Objective Question				
98	98	Tomatoes exhibiting delayed ripening express antisense RNA against A1 : glycerol 1 phosphate acyl transferase A2 : polygalactouranase A3 : ACC deaminase A4 : sucrose phosphate synthase gene	4.0	1.00
Objective Question				
99	99	The shortest of mitotic phases is the A1 : Telophase A2 : interphase A3 : metaphase A4 : anaphase	4.0	1.00
Objective Question				
100	100	Cider vinegar is produced from A1 : Fruit Juices A2 : Ale A3 : Malted grain A4 Ethanol	4.0	1.00

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