Examination: M.Sc Food Science and Technology
SECTION 1 - SECTION 1
Question No.1 Sprouting in potatoes can be inhibited by irradiation using a dose range ofkGy 0.26 -0.35 0.01-0.05 0.06 - 0.15 0.16 - 0.25
Question No.2 100 kg of grain is dried from 18%(wb) to13%(wb) moisture. The amount of water removed (in kg) is 4.8 6.2 5.0 5.7
Question No.3 Which of the following is not a glazing agent Sodium silicate Shellac Magnesium Silicate Gum Arabic
Question No.4 The amount of heat required to raise the temperature of a given mass by unit value is also known as Thermal conductivity Heat capacity Specific heat Thermal diffusivity
Question No.5 One atmospheric pressure is equal to 1.0 kg/m ² 1.0 kg/cm ² 1.0 N/m ² 1.0 ton/m ²

Question No.6	
The process of heat transfer from one particle of the body to another by the actual motion of the heated particle is	
EvaporationConvection	
Radiation	
Conduction	
Conduction	
Question No.7	
A constant volume non-flow thermodynamic process is known as Adiabatic process	
 Isobaric process 	
Isentropic process	
Isochoric process	
Question No.8	$\overline{}$
Formula for body mass index is	
Weight divided by height squared	
Height divided by weight	
Weight divided by height	
 Height divided by weight squared 	
Question No.9	
is a non fermentable sugars.	
Raffinose	
○ Fructose	
○ Xylose	
○ Glucose	
Question No.10	
In PERT approach which time is not estimated	
Most likely time	
Optimistic time	
Earliest finish time	
Pessimistic time	
Question No.11	
Which of the following is a natural emulaifier?	
Which of the following is a natural emulsifier? Lecithin	
255131111	

 Tertiary butyl hydroquinone
Solbak
Question No.12
Which of the following is more applicable in size reduction of fine
powders?
Bond's law
◯ Kick's law
○ Newtons' law
○ Rittinger's law
Question No.13
Fluid flow in circular pipe is said to be laminar if the Reynolds number is
☐ Equal to 2001
☐ Equal to 2100
Question No.14
Developed bitterness of ground nut kernel is mainly due to
Cholera toxin
Aflatoxins
Aflatoxins
Aflatoxins Botulinus toxins
Aflatoxins Botulinus toxins Bacterial toxins Question No.15
Aflatoxins Botulinus toxins Bacterial toxins Question No.15 Most spoilage and pathogenic bacteria which contaminate food
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Polycarbonate
Question No.17
provides more than double the energy provided by carbohydrates or proteins in human body Vitamins Minerals Fat Starch
Question No.18
Optimum storage temperature of bread with respect to staling is
Question No.19
A special type of pasteurizing apparatus used, particularly in butter industry Wing top pasteurizer Vat pasteuriser Dome top pasteurizer Vacreator
Question No.20
The destruction of all microorganisms in food by thermal processing is known as Scalding Blanching Sterilization Pasteurization
Question No.21
Xylitol is abundant in vegetable Mushroom Broccoli Cauliflower Ladies Finger
Question No.22

The yolk or yellow portion makes up about percent of the liq weight of the egg. 12 34 43 22	uid
Question No.23	
Worlds' staple food grain is Maize Rice Sorghum Wheat	
Question No.24	✓
The percentage of bran received from paddy is 20% 5% 15% 10%	
Question No.25	
Kinematic viscosity is Viscosity divided by mass Viscosity in the turbulent flow range Viscosity divided by density Viscosity in the laminar Flow range	
Question No.26	
Separation of liquids from solids by the application of pressure is known as Extraction Filtration Leaching Expression	
Question No.27	
Blue color on the surface of meat is caused by Serratia marcescence Thamnidium	

Question No.28 Ionizing radiation of kGy is effective for insect disinfestation. > 1.00 0.75 - 7.5 0.25 - 1.00 1.00 - 3.00 Question No.29 Concept of combining several factors to preserve food is termed as Hazard technology Multiple processing Hurdle technology Minimum preservation Question No.30 Swiss cheese is also known as Cottage cheese Emmental cheese White cheese Brown cheese Brown cheese Guestion No.31 Alcohol, although not a nutrient, supplies energy that is about calories per gram. 8 9 7 4 Question No.32 A 100°S, represents a saturated brine solution of % salt 42.5 26.5 28.5 35.5 Question No.33	Pseudomonas syncyanea
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42.526.528.535.5	A 40000
26.528.535.5	
28.535.5	
○ 35.5	
	○ 28.5
Question No.33	35.5
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	Question No.33

For smooth floor surfaces, in vertical silos the slope angle should be
○ 20-30 °
○ 40-45 °
○ > 45 °
○ 30-35 °
Question No.34
Pessimistic time in project scheduling is the
Subjective estimate of most frequent time
Shortest possible time (ideally)
Critical path time
 Longest time possible if everything went wrong
Question No.35
If the moisture content on wet basis is 20%, then what would be the % moisture content on dry basis?
25
0 18
22
Question No. 26
Question No.36
Safe moisture content (% w.b.) for storage of paddy is
Safe moisture content (% w.b.) for storage of paddy is 13
Safe moisture content (% w.b.) for storage of paddy is 13 10
Safe moisture content (% w.b.) for storage of paddy is 13 10 12
Safe moisture content (% w.b.) for storage of paddy is 13 10
Safe moisture content (% w.b.) for storage of paddy is 13 10 12
Safe moisture content (% w.b.) for storage of paddy is 13 10 12 11 Question No.37
Safe moisture content (% w.b.) for storage of paddy is 13 10 12 11 Question No.37 Dry ice is known as
Safe moisture content (% w.b.) for storage of paddy is 13 10 12 11 Question No.37 Dry ice is known as Solidified carbon-di-oxide
Safe moisture content (% w.b.) for storage of paddy is 13 10 12 11 Question No.37 Dry ice is known as Solidified carbon-di-oxide Solidified water kept in moisture free environment
Safe moisture content (% w.b.) for storage of paddy is 13 10 12 11 Question No.37 Dry ice is known as Solidified carbon-di-oxide Solidified water kept in moisture free environment Solidified freon-12
Safe moisture content (% w.b.) for storage of paddy is 13 10 12 11 Question No.37 Dry ice is known as Solidified carbon-di-oxide Solidified water kept in moisture free environment
Safe moisture content (% w.b.) for storage of paddy is 13 10 12 11 Question No.37 Dry ice is known as Solidified carbon-di-oxide Solidified water kept in moisture free environment Solidified freon-12
Safe moisture content (% w.b.) for storage of paddy is 13 10 12 11 Question No.37 Dry ice is known as Solidified carbon-di-oxide Solidified water kept in moisture free environment Solidified freon-12 Solidified nitrogen Question No.38
Safe moisture content (% w.b.) for storage of paddy is 13 10 12 11 Question No.37 Dry ice is known as Solidified carbon-di-oxide Solidified water kept in moisture free environment Solidified freon-12 Solidified nitrogen Question No.38 Which of the following amino acid combination is not found in Pulses
Safe moisture content (% w.b.) for storage of paddy is 13 10 12 11 Question No.37 Dry ice is known as Solidified carbon-di-oxide Solidified water kept in moisture free environment Solidified freon-12 Solidified nitrogen Question No.38 Which of the following amino acid combination is not found in Pulses Tryptophan, Lysine
Safe moisture content (% w.b.) for storage of paddy is 13 10 12 11 Question No.37 Dry ice is known as Solidified carbon-di-oxide Solidified water kept in moisture free environment Solidified freon-12 Solidified nitrogen Question No.38 Which of the following amino acid combination is not found in Pulses

Cysteine, Methionine
Question No.39 Which is not preferred to retard oxidative rancidity of fat or oil is Butylated hydroxyanisole Butylated hydroxytoluene Ethyl salicylate Ethyl gallet
Question No.40 Glucose in an aqueous solution, can exist in tautomeric forms at room temperature 1 3 4 2
Question No.41 The number of degrees required for a specific thermal death time curve to pass through one log cycle is defined as Z value F value D value Q value
Question No.42 The weight of air contained in a room of dimension 15 m x 10m x 4m high at atmospheric pressure and 20° C temperature is 520 Kg 820 Kg 620 Kg 720 Kg
Question No.43 The lower limit of moisture by sun drying is approximately percent. 15 10 30 20

Question No.44	
The nutritional information is necessary in which of the follow Foods with a nutrition or health claim is made on the	•
 Foods which are single ingredient products 	
 Packaged fresh produce. 	
 Foods for catering purposes such as served in hospi 	tals
Question No.45	
A dimensionless ratio of inertial to viscous forces in case of f is better known as	luid flow
Stanton number	
Reynolds number	
Froude's number	
Prandit number	
Question No.46	
is one of the most widely used food additive to pre	wont the
separation of food components to ensure consistency.	veni ine
Papain	
Propyl Gallate	
Bromelin	
Lecithin	
Question No.47	
The insulating materials have	
High thermal conductivity	
Low thermal conductivity	
Zero thermal conductivity	
 Negative thermal conductivity 	
Tregative thermal conductivity	
Question No.48	
Question No.48	-
Question No.48 Pascal is a unit of	
Question No.48 Pascal is a unit of Viscosity	
Question No.48 Pascal is a unit of Viscosity Temperature	
Question No.48 Pascal is a unit of Viscosity Temperature Pressure	
Question No.48 Pascal is a unit of Viscosity Temperature	
Question No.48 Pascal is a unit of Viscosity Temperature Pressure	
Question No.48 Pascal is a unit of Viscosity Temperature Pressure Displacement	
Question No.48 Pascal is a unit of Viscosity Temperature Pressure Displacement Question No.49	

○ Linear	
○ Planar	
Branched	
Question No.50	
The major defect in ice cream caused by lactose is	
Fluffy texture	
 Crumbly body 	
Icy texture	
 Sandy texture 	
Question No.51	
Which of the following vitamins can function as antioxidant?	
○ C & E	
○ B & K	
○ A & C	
○ A & K	
Question No.52	
Recommended temperature (°C) for safe storage of grapes is	
-1 to 10	
○ 4 to 5	
○ 20 to 25	
○ 10 to 15	
Question No.53	
The ionizing radiation of 1 Kilogray (kGy) = Rad	
0 10 ³	
0 10 ⁵	
0 10 ⁶	
0 10 ⁴	
Question No.54	
One tonne of refrigeration is equivalent to kcal/min. 50	
100	
110	
60	

Question No.55
It is proposed to concentrate orange juice by boiling-off excess water. The relevant unit operation in this process is known as Distillation Evaporation Crystallization Drying
Question No.56
Yellow colour of cow milk is due to the presence of Quinons Carotene Lycopene Anthocyanin
Question No.57
R-134a (refrigerant) is Pentafluoroethane Dichlorodifluromethane Tetrafluoroethane Dichloromethane
Question No.58
The dimensionless number in mass transfer operations which is analogues to Nusselt number in heat transfer is known as Lewis number Peclet number Sherwood number Schimdt number
Question No.59
Which of the following is a natural, toxicologically safe antibacterial food preservative? Penicillin Nisin Avidin Biotin
Question No.60
The micronutrients which can be used as fortificants in milk Vitamin A and K

○ Vitamin A and B
○ Vitamin B and K
○ Vitamin A and D
Question No.61
A mixture of air and water vapour is adiabatically cooled. The lowest temperature of the mixture thus achieved is equal to Dry bulb temperature Wet bulb temperature Some other temperature Dew point temperature
Question No.62
The quantity of heat (MJ) required to convert one kg of ice into vapour is about 2.53 3.10 2.26 1.3
Question No.63
One ton of refrigeration is the amount of heat required to melt 1 ton of ice at 0°C in hour. 12 6 24 1
Question No.64
The first law of thermodynamics is a special case of Newton's law The law of heat exchange Law of conservation of energy Charle's law
Question No.65
The % safe moisture content of safe storage of corn is 16 18 15 13

Question No.66
The cheaper quality materials added to food items for more profit are
called Adulterant
O Prug
Preservative
Additive
Question No.67
Which amino acid is essential for the growth of children?
○ Isoleucin
Hystidine
Threonine
Question No.68
On the Celsius temperature scale, the absolute zero temperature is
(°C).
O -100
0 -273.15
-32
— — — — — — — — — — — — — — — — — — —
Question No.69
Halitosis of garlic is caused by
Allyl methyl sulfide
Allyl bromide
Allium sativum
Allyl isocyanide
Question No.70
Equilibrium relative humidity data is important when we consider the
storage of Wet product
Wet productSemisolid product
Dried product
Fresh product
Question No.71

Meat preservative agents are Nitrite and nitrate Acetic acid and sugar Citric acid and acetic acid
Benzoic acid and sodium phosphate Question No.72
play a crucial role in carbohydrate metabolism. Vitamin D Iron Zinc Riboflavin
Question No.73 Dextrin can be produced by the action of enzyme. Cellulase Protease Galactosidase Amylase
Question No.74 BMR stands for Basal metabolic ratio Basic metabolic ratio Basal metabolic rate Basic metabolic rate
Question No.75 The eyes in cheese result from acid fermentation Lactic Propionic Malic Acetic
Question No.76 Activity slack in CPM/PERT technique is calculated by Latest Start time - Earliest Start time Latest Finish time - Earliest Start time Latest Finish time - Earliest Finish time Both a and b

Question No.77 is a reciprocating type of pump
0.01
Question No.79
Fructose is also known as Xylose Levulose Maltodextrin Leucose
Question No.80
Which of the following is the largest producer and consumer of tea in the world? China Sreelanka India West Indies
Question No.81
HTST pasteurization of raw milk employs a temperature of 62.8 °C for 30 s 150 °C for 20 s 71.7 °C for 15 s 100 °C for 10 s
Question No.82
Scalding is a treatment process.

Freezing
Irradiation
Vacuum
Heat
Question No.83
One nanometer is equal to
○ 10 ⁻⁹ cm
○ 10 ⁶ cm
○ 10 ⁻⁶ cm
○ 10 ⁹ mm
Question No.84
Enzyme responsible for browning of cut fruits and vegetables is
Polyphenol oxidase
Pectin methyl esterase
Amylase
 Catalase
Question No.85
Stoke's law is used to find out
 Drag coefficient
 Surface tension
 Terminal velocity
 Specific gravity
Question No.86
Which of the following genus is not a psychrophilic, gram negative
bacteria.
Micrococcus
Serratia
AeromonasAlcaligenes
Alcaligeries
Question No.87
Who is the architect of Green revolution in India?
Hargobind Khurana
M S Swaminathan
J C Bose
V Kurien

Question No.88	
Highest concentration of lipoxygenase is found in Pigeon pea Ground nut Soybean Chick pea	
Question No.89	
Fuel value of rice husk is about Kcal/kg. 1000-2000 2500-3000 2000-2500 3000-3500	V
Question No.90	
One unit of electricity is equal to One kilowatt One Horsepower One Horsepower-hour One kilowatt-hour	
Question No.91	
is a salt cured pork meat. Ham Marinade Jerky Beef	
Question No.92	
The water soluble component of the gluten protein complex is Glutamine Glutenin Gliadin Globulin	
Question No.93	
Anti nutritional factor present in egg Hemaglutennins Gossypol	

AvidinPrussic acid	
Question No.94 A gaseous mixture has oxygen and hydrogen in equal proportions	5.
What would be the molecular weight of the mixture? 30 34	
0 17 0 32	
Question No.95	
Enzyme coagulated milk product is Chhana	
O Dahi	
Question No.96	
Selection of strapping materials depends on Compression and elongation	
Elongation and compressionTensile and elongation	
Tensile and compression	
Question No.97 Which of the following quantities is not a scalar?	
SpeedPressureTemperature	
Momentum	
Question No.98	
Botanical name of wheat is Triticum durum Oriza sative	
Triticum aestiaTriticum aestivum	
Question No.99	

The cracked grains have grains under same conditions Negligible Equal Higher Lower	_ respiratory rates than whole
Question No.100 Citric acid is commercially produced Aspergillus niger Saccharomyces cerevisiae Acetobacter acetii Saccharomyes rouxii	by