Examination: Ph.D Food Science and Technology	
SECTION 1 - SECTION 1	
Question No.1	
This amino acid is the precursor of ethylene in fruits Cystine Histidine Methionine Valine	
Question No.2	
Amla products are difficult to preserve because	
Question No.3	
Which one of the following is not a hard cheese? Cheshire Camembert Cheddar Swiss	
Question No.4	
FFS packaging stand for Form fill seal Form file seal Fold fill seal Fold file seal	
Question No.5	_
What is the type of reaction involved in the conversion of xylulose-5- phosphate to form glycerad phosphate Oxidation Dehydrogenation Transketolation Transadolation	ehyde -3-
Question No.6	
Which of the following is biodegredable plastic? Poly propylene	

LDPEPolythenePolyhydroxy butyrate	
Question No.7 Molecular diffusion is a phenomenon analogous to heat transfer by Conduction Convection Both conduction and convection Radiation	
 Question No.8 Which of the following tocopherols has highest antioxidant property? β – tocopherol γ – tocopherol α – tocopherol κ - tocopherol 	
Question No.9 A dose ofKGy is required for a 12D reduction of Clostridium botulinun 45 40 48 43	
Question No.10 The mineral which is associated with goiter is Magnesium Sodium Calcium Iodine	
Question No.11 The "temperature danger zone" is: 0 - 100 degrees F 180 - 350 degrees F 40 -140 degrees F 65 - 140 degrees F	
Question No.12 Saponification is also known as Alkali hydrolysis	

Enzyme hydrolysisAcid hydrolysisNone of these	
Question No.13	
Which is not true to describe the properties of supercritical fluid? Liquid like diffusivity Liquid like density High selectivity Gas like viscosity	
Question No.14	
Total food grain production in 2007-08 200 MT 231 MT 250 MT 175 MT	
Question No.15	
Which method is not a non-thermal processing? Ohmic heating Ultrasound Pulsed light Cold Plasma	
Question No.16	
Which one is not a fermented food Miso Marmalade Tempeh Bread	
Question No.17	
Which of the following is true about ISO 2002 method for Salmonella detection Selenite cystine (SC) broth is replaced by Muller Kauffmann tetrathionate novobiocin broth (MKTTn) BGA is the first isolation medium rather than XLD Rappaport Vassiliadis (RV) broth is replaced by Muller Kauffmann tetrathionate novobiocin (MKTTn) Rappaport Vassiliadis (RV) broth has been replaced by Selenite cystine (SC) broth	broth
Question No.18	
Thermal conductivity has the unit of	

○ W.m ⁻¹	
○ W.m ⁻¹ .K ⁻¹	
○ W.m ⁻²	
○ W.m ⁻² .K ⁻¹	
Question No.19	
coffee is prepared by forcing an atomized spray of very strong coffee extract through a jet of I	not air.
Espresso	
 Decaffeinated 	
Instant	
Black	
Question No.20	
Which one of the following is not narrow-spectrum antibiotics	
○ kanamycin	
 oleandomycin 	
novobiocin	
Question No.21	
Question No.21	
A pump consists of a reciprocating or rotating cavity between two lobes or gears and a rotor.	
Negative	
CentrifugalHand	
Positive	
Question No.22	
In, FDA approved the use of irradiation to control pathogens in fresh and frozen red meats, so	ıch as
beef, lamb, and pork.	4011 40
1997	
1988	
○ 1975○ 1990	
0 1990	
Question No.23	
Neohesperidine dihydrochalcone from citrus is responsible for	
Sweetness	
 Bitterness 	
 Saltiness 	
 Astringency 	
Question No.24	

Carbohydrates are also described as Polyhydric acid Polyhydric adlehydes Polyhydric ketones Polyhrdric alcohols	
Question No.25 During a heterogeneous system operation involving mass transfer from gas to liquid to solid, the "rate controlling step" is the Second largest step Intermediate step Fastest step Slowest step	
Question No.26 This is an indicator of insect infestation in cereal and legume flours Lactic acid Uric acid Acetic acid Citric acid	
Question No.27 The heat resistance of micororganisms is expressed in the term of thermal death rate thermal death point bacterial count thermal death time	
Question No.28 What happens to the boiling point of water when it is heated at high altitude Remains the same Water does not boil Decreases Increases	
Question No.29 Which of the following factor cannot affect the enzyme activity Temperature pH Presence of metal ion RH	

Question No.30	
Reassociation of amylose and formation of crystalline structure upon cooling of cooked starch termed as	solution is
 Retrogradation 	
Gelatinization	
DenaturationSynersis	
- Cyricisis	
Question No.31	
Which vitamin is used most commonly to control browning in fruits by enzymes?	
O D	
C K	
○ B	
Question No.32	
HTST pasteurization is done atoC	
68	
0 71.7 0 150	
<u> </u>	
Question No.33	
Lecithinase enzyme found in cobra venom is	
Lecithinase D	
Lecithinase A	
Lecithinase C	
○ Lecithinase B	
Question No.34	
Plasmids are	
 Extra - chromosomal circular DNA in some bacteria 	
Donar DNA	
Vectors	
○ Virus	
Question No.35	
The hormone which is a glycoprotein and has high cystine content is	
Follice stimulating hormone	
Lactogenic hormone	
Growth hormone	
 Thyroid stimulating hormone 	

Question No.36	
Question No.30	
The breaking down of protein is known as	
o preservation	
acidification	
 ammonification 	
purtefaction	
Question No.37	
Shell-egg are cooked in water at	
80.4°C for 40 minutes	
○ 56.2°C for 20 minutes	
○ 60°C for 10 minutes	
52.2°C for 30 minutes	
52.2°C for 30 minutes	
Question No.38	
Which of the following acid will have higher bacteriostatic effect at a given pH?	
Maleic acid	
Acetic acid	
○ Citric acid	
◯ Tartaric acid	
Question No.39	
In the Embden Meyerhof pathway, conversion of 3-phosphoglycerate to phosphoenol pyruvate is	
catalysed be the enzyme	
 Phosphoglyceromutase 	
 Phosphofructokinase 	
 Phosphoglyceratekinase 	
Enolase	
Question No.40	
Question No.40	
According to US FDA, Irradiation comes under the category of	
According to US FDA, Irradiation comes under the category of Food Adulteration	
According to US FDA, Irradiation comes under the category of Food Adulteration Food Preservative	
According to US FDA, Irradiation comes under the category of Food Adulteration Food Preservative Food additive	
According to US FDA, Irradiation comes under the category of Food Adulteration Food Preservative	
According to US FDA, Irradiation comes under the category of Food Adulteration Food Preservative Food additive	
According to US FDA, Irradiation comes under the category of Food Adulteration Food Preservative Food additive Food Processing Aid	
According to US FDA, Irradiation comes under the category of Food Adulteration Food Preservative Food additive Food Processing Aid Question No.41	
According to US FDA, Irradiation comes under the category of Food Adulteration Food Preservative Food additive Food Processing Aid Question No.41 Polyphosphoric acid is a	

Buffering agent	
Question No.42	
The chief organism responsible for the production of gas is coliform bacteria eschericia coli clostridium botulinum all of these	
Question No.43	
Which one of the following is not correct? Small pox - variola Measles - rubeola morbelli Rabies - infantile paralysis German measle - rubella	
Question No.44	
Protein metabolism is influenced by Epinephrine Thyroxine Insulin Androgens	
Question No.45	
Which theory states that "pectin solution is stable". Pectin molecules are negatively charged. Increase in acidity/alkalinity decreases its stability Spencer's theory Hinton's theory Olsen's theory Fibrill theory	1
Question No.46	
Ergotism is caused due to consumption of contaminated with Claviceps purpurea. Groundnut Pearl millet Toor dal Corn	
Question No.47	
Milk, contains insufficient iron for pigmentation of the spores of penicillium roqueforti salmonella	

 streptococcus faecalis 	
pseudomonas	
Question No.48	
Lister monocytogenes can grow at temperature as low as	
○ 12° C	
○ 15° C	
○ 7° C	
○ 4° C	
Question No.49	
Which of the following method is aquick test for sugar content during early stages of brewing of bee	r
Babcock test	
 Polarimetry 	
Hydrometry	
○ Wet ashing	
Question No.50	
The term green revolution was coined by	
○ Vargheese Kurian	
William Goude	
Question No.51	
Which of the following is responsible for the purple color of meat?	
Oxymyoglobin Oxymyoglobin	
Oxyhaemoglobin	
Deoxymyoglobin	
Question No.52	
Which of the following is an emulsifier	
Palmitic Acid	
Lecithin	
○ Lactose	
○ Casein	
Question No.53	
Long term ingestion of large quantities of lycopene can lead to	
Lycopenodermia	

Lycopene psoriasis	
 Lycopene keratosis 	
 Lycopene dermatomyositis 	
Question No.54	
The volatile component in cardamom is	
Cineole	
Camphor	
○ Carvacrol	
 Camphene 	
Question No.55	
The swelling of moist macaroni has been reportedly caused by gas producing bacteria such as	
 enterobacter aerogenes 	
 enterobacter colacace 	
 enterobacter oxytocum 	
none of these	
Question No.56	
Formation of oxymyoglobin, when molecular oxygen binds to myogllobin is termed as	
Oxygenation	
DehydrationOxidation	
Dehydrogenation	
Question No.57	
In connection with the microbial growth cycle, during the accelerated phase, cell starts to	
 increase and the division rate increases to reach a maximum 	
 decrease and the division rate increases to reach a maximum 	
 increase and the division rate increases to reach a minimum 	
 increase and the division rate decreases to reach a maximum 	
Question No.58	
In pools aring of food on Crystallintity increases which one of the following statements in true?	
In packaging of food as Crystallintity increases which one of the following statements is true? The impact strength is increased	
The tensile strength is reduced The tensile strength is reduced	
Moisture barrier properties decrease	
Oxygen barrier properties increase	
Question No.59	
Which one of the microorganisms given below is not responsible for ropy or stringy fermentation	of milk?
Streptococcus lactis	

Enterobacter aerogenes	
Alcaligenes viscolactisStreptococcus cremoris	
Question No.60	
The volume of oil that can be emulsified per gram of protein before phase inversion occurs is known Emulsion capacity	as
Emulsion load	
Emulsion stability	
Emulsion activity index	
Question No.61	
The formation of glucose from non- carbohydrate source is known as	
Glycolysis	
GlycolysisGluconeogenesis	
Glycogenesis	
Question No.62	
The test in which sugar solution is boiled with copper acetate and acetic acid is Nylanders test	
Barfoeds test	
 Glucazone formation 	
Osazone formation	
Question No.63	
Kinase reactions;	
 Involves addition or removal of phosphate group 	
Involves transfer of hydrogenInhibit ATP break down	
Involves addition or removal of ketone group	
Question No.64	
The hormone which is a single polypeptide chain composed of 190 amino acids is	
Thyroid stimulating hormoneGrowth hormone	
Lactogenic hormone	
Follice stimulating hormone	
Question No.65	
The process of transfer of an amino group from an amino acid to an original keto acid is known as	
Transamidation	

 Transamidination 	
 Transamination 	
 Transdeamination 	
Question No.66	
For commercial sterilization of low acid food products, the log reduction required for <i>Clostridium</i> is	botulinum
○ 10 log cycle	
8 log cycle	
□ 12 log cycle	
Question No.67	
For lumped system approach which non-dimensional number is used?	
Nusselt number	
Biot number	
 Reynolds number 	
 Grashof number 	
Question No.68	
Mhigh and of the fallowing migracy anioned is used in the proposition of broad?	
Which one of the following microorganisms is used in the preparation of bread? Saccharomyces boullardii	
Saccharomyces cerevisiae	
Saccharomyces bayanus	
 Saccharomyces cevarum 	
Question No.69	
The driving force for mass transfer by molecular diffusion is the difference in	
Observation	
Chemical potentialGibbs Free energy	
○ Globs Free energy○ Vapor pressure	
Question No.70	
The primary ester bonds of triacyglycerol is hydrolyzed by	
 Pancreatic hydrolase 	
 Pancreatic lipase 	
 Pancreatic oxidase 	
Pancreatic triacylase	
Question No.71	
Military of the Sallandian is not one of the tree of a salary and the salary and	
Which of the following is not one of the twenty common amino acids?	

○ NH ₂ -CO-CH ₂ -CHNH ₂ -COOH	
○ CH ₃ -CHNH ₂ -COOH	
○ HOCHNH ₂ -CH ₂ -COOH	
○ HOOC-CH ₂ -CHNH ₂ -COOH	
Question No.72	
The protein that contain prophyrin as the prosthetic group is termed as	
Chromoprotein	
Mucoprotein	
Mettaloprotein	
○ Lipoprtoein	
Question No.73	
Invert sugar has the specific rotation of due to presence of	
-92°, fructose	
○ -19.6°, glucose	
, g	
10.6% fractors	
-19.6°, fructose	
○ -92°, glucose	
Question No.74	
A method involving a freezing time of 30 minutes or less is	
slow freezing	
dehydro freezing	
sharp freezing shar	
o quick freezing	
Question No.75	
Which of the following is not a product of fermentation?	
○ Carbon-di-oxide	
○ Lactate	
○ Ethanol	
○ Oxygen	
Question No.76	
Lipositol is derived from	
Diglyceride	
Phosphatidic acid	
○ Cephalin	
II	
Lecithin	

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Question No.77	
Which one of the given steps in bulk chocolate manufacture helps to improve the flavor?	
o melangeuring	
conching	
o refining	
tempering	
Question No.78	
The enzymes of glycolysis is located in	
Mitochondria	
 Nucleus 	
○ Cytoplasm	
○ Lysozyme	
Question No.79	
Thermus aquaticus is source of	
 Vent polymerase 	
DNA polymerase II	
opfu polymerase	
Question No.80	
	s called
Question No.80 At a certain temperature, the time (in min) required to reduce the microbial load by a factor of 10 i as	s called
At a certain temperature, the time (in min) required to reduce the microbial load by a factor of 10 i as Z-value	s called
At a certain temperature, the time (in min) required to reduce the microbial load by a factor of 10 i as Z-value F-value	s called
At a certain temperature, the time (in min) required to reduce the microbial load by a factor of 10 i as Z-value F-value Q-value	s called
At a certain temperature, the time (in min) required to reduce the microbial load by a factor of 10 i as Z-value F-value	s called
At a certain temperature, the time (in min) required to reduce the microbial load by a factor of 10 i as Z-value F-value Q-value	
At a certain temperature, the time (in min) required to reduce the microbial load by a factor of 10 is as Z-value F-value Q-value D-value Question No.81	s called
At a certain temperature, the time (in min) required to reduce the microbial load by a factor of 10 i as Z-value F-value Q-value D-value	
At a certain temperature, the time (in min) required to reduce the microbial load by a factor of 10 is as Z-value F-value Q-value D-value Question No.81 The tip of the fertile hyphae is known as	
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Question No.83	
Ropiness is caused by a mucoid variant of	
o bacillus subtilis	
goetrichum aurantiacium	
oiduim quarantiacum	
lichenicformis	
Question No.84	
Blanching influences vegetable tissues in terms of	
stabilization of nuclear proteins	
enzymes production	
 alteration of cytoplasmic membrane 	
 stabilization of cytoplasmic proteins 	
Question No.85	
The structural group of carotenoids is	
⊝ β xanthophylls	
 Xanthophylls 	
Oxygenated xanthophylls	
o α xanthophylls	
Question No.86	
Standardized milk contains minimum milk fat percent and minimum percent MSNF as: 3.5 and 7.0	
○ 4.5 and 8.5	
1.5 and 9.0	
6.0 and 9.0	
Question No.87	
Which one of the following is not the result of blanching of potato chips?	
Reducing the load of fryer	
Reduced frying time	
Surface gelatinization	
Reduced fat absorption	
Question No.88	
The prominent enzyme in honey is	
β glucosidase	
o α glucosidase	
galactase	
 glucose reductase 	
<u></u>	

Question No.89	
Pasteurization by radiation in food is called	
Cold sterilization	
 Radicidation 	
Radappertization	
 Radurization 	
Question No.90	
Parital hydrolysis of collagen by steam gives	
○ Cephalin	
Gelatin	
Protamines	
Phosphoprotein	
Question No.91	
α-Glycosylated stevioside is produce by which of the following enzyme?	
⊝ β-Galactosidase	
o α-Glucosidase	
α-1,6-Glycosyltransferase	
β-Glycosyltransferase	
Question No.92	
Masses of viruses that are intracellular inclusions are called as	
Elementary bodies	
Elementary bodiesBodies	
Elementary bodiesBodiesGuarnieri bodies	
Elementary bodiesBodies	
Elementary bodiesBodiesGuarnieri bodies	
 Elementary bodies Bodies Guarnieri bodies Negri bodies Question No.93	
 Elementary bodies Bodies Guarnieri bodies Negri bodies Question No.93 In India, HACCP certification has been made compulsory for export oriented unit. 	
 Elementary bodies Bodies Guarnieri bodies Negri bodies Question No.93	
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 Elementary bodies Bodies Guarnieri bodies Negri bodies Question No.93 In India, HACCP certification has been made compulsory for export oriented unit. Fruits and vegetable Seafood 	
 Elementary bodies Bodies Guarnieri bodies Negri bodies Question No.93 In India, HACCP certification has been made compulsory for export oriented unit. Fruits and vegetable Seafood Meat and egg products 	
 Elementary bodies Bodies Guarnieri bodies Negri bodies Question No.93 In India, HACCP certification has been made compulsory for export oriented unit. Fruits and vegetable Seafood Meat and egg products Cereals and pulses Question No.94	
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Question No.95
Which one of the given options is used in the context of a food additive RDA
O HACCP
O GMP
○ GRAS
Question No.96
Destruction of molds on the surface of bread is done by
 electronic heating
 ultraviolet irradiation
∫ freezing
 none of these
Question No.97
Most of the spoilage and pathogenic bacteria which contaminate the food materials having water activity within
0.81-0.85
0.75-0.80
0.86-0.90
0.91-0.99
Question No.98
The important role of carotenoids in the human diet is their ability to serve as precursors of
The important role of carotenoids in the human diet is their ability to serve as precursors of Vitamin C
The important role of carotenoids in the human diet is their ability to serve as precursors of Vitamin C Vitamin D
The important role of carotenoids in the human diet is their ability to serve as precursors of Vitamin C Vitamin D Vitamin K
The important role of carotenoids in the human diet is their ability to serve as precursors of Vitamin C Vitamin D Vitamin K Vitamin A Question No.99
The important role of carotenoids in the human diet is their ability to serve as precursors of Vitamin C Vitamin D Vitamin K Vitamin A Question No.99 Perishable foods are stored at -18 °C or below because at that temperature
The important role of carotenoids in the human diet is their ability to serve as precursors of Vitamin C Vitamin D Vitamin K Vitamin A Question No.99 Perishable foods are stored at -18 °C or below because at that temperature No microbial growth along with no enzymatic action
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