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Total No. of Pages: 20

P.G. Entrance Examination, June - 2022 M.Sc. FOOD SCIENCE AND TECHNOLOGY Sub. Code: 58724

•			nday, 12 - 06 - 2022 o 02.30 p.m.	Total Marks: 100
Inst	ruction	as: 1)	All questions are compulsory	'•
		2)	Each question carries 1 mark	ζ.
		3)	Answers should be marked darkening the appropriate op	d in the given OMR answer sheet by otion.
		4)	Follow the instructions given	on OMR sheet.
		5)	Rough work shall be done on paper.	the sheet provided at the end of question
1)	Oxid	lative ran	cidity is promoted by	_·
	(A)	Heat		
	(B)	Catalysis	5.	
	(C)	Enzyme	S	
	(D)	All the a	bove	
2)		_ is Mic	o mineral	
	(A)	Calcium		
	(B)	Magnesi	um	
	(C)	Iodine		
	(D)	Phospho	prous	
3)	Yello	ow colou	r in Turmeric is caused due	to the presence of
	(A)	Boron		
	(B)	Curcumi	n	
	(C)	Iron		
	(D)	Comople	astid	

4)	Smell	is related with Phenomenon
	(A) (olfaction
	(B) a	astringency
	(C) t	exture
	(D) (consistency
5)	Exces	s intake of the do not creates toxicity
	(A) v	water soluble vitamins
	(B) f	at soluble vitamins
	(C) t	ooth (A) & (b)
	(D) a	all of the above
6)		affect the behavior of protein in food system during storage processing
		ration and consumption
		functional properties
	(B) r	nonfunctional
	(C) (lynamic properties
	(D) a	all of the above
7)		proteins are derived from protein denaturation and coagulation
	(A) S	Simple
	(B) I	Derived
	(C) (Conjugated
	(D) 1	None of the above
8)	Lacto	se is composed of glucose &
	(A) s	sucrose
	(B) f	ructose
	(C) g	galactose
	(D) s	

9)		is the simplest form of carbohydrates and cannot be hydrolysed further
	(A)	Polysaccharide
	(B)	Disaccharide
	(C)	Oligosaccharide
	(D)	Monosaccharide
10)		water is water that is attached to the surface of molecules like saccharides and proteins.
		Absorbed
	, ,	Adsorbed
	` '	Freezed
	(D)	Vapourized
11)		is Macro mineral
	(A)	Iodine
	(B)	Manganese
	(C)	Cobalt
	(D)	Calcium
12)		is synthesized in our body
	(A)	Ergocalciferol
	(B)	Cholecalciferol
	(C)	Vitamin E
	(D)	Vitamin C
13)	Cry	ogenic liquids used in the method of food preservation.
	(A)	Sterilization
	(B)	Canning
	(C)	Freezing
	(D)	Drying

14)	The	solubility of protein is related to the
	(A)	pH
	(B)	TSS
	(C)	Brix
	(D)	None of the above
15)		acts as building block of the body.
		Protein
	, ,	Carbohydrates
		Vitamins
	, ,	Fat
16)		structure of proteins involves only peptide bonds
,		Secondary
		Primary
		Tertiary
		Quaternary
17)		is example of transport protein.
,		Muscles
	` /	Collagen
		Haemoglobin
	(D)	All of the above
18)		do not exhibit mutarotation.
10)	(A)	
	` /	Fructose
	` /	Sucrose
	` /	All of the above

19)		_ is difficult to remove during drying
	(A)	Chemically bound water
	(B)	Free water
	(C)	Both (A) & (B)
	(D)	None of the above
20)		_ is the amount of accesible water present in food material.
	(A)	Moisture content
	(B)	Water activity
	(C)	Chemically bound water
	(D)	All of the above
21)	The	pH meter measures
	(A)	acid concentration
	(B)	light refraction
	(C)	viscosity
	(D)	color of reflected light
22)	Glut	en formation is desired in
	(A)	Biscuit making
	(B)	Cake making
	(C)	Bread making
	(D)	None of these
23)		_ procedure used for removing bacteria from milk.
	(A)	Filtration
	(B)	Bactofugation
	(C)	Homogenization
	(D)	Pasteurization

24) Wha		at is WVTR?
	(A)	Water to vapour transient rate
	(B)	Water to vapour transfer rate
	(C)	Water vapour transfer rate
	(D)	Water to vapour total ratio
25)		ss-contamination of food is a common factor in the cause of food borne ases which can occur by
	(A)	Food to Food
	(B)	People to Food
	(C)	Environment to Food
	(D)	All of the above
26)	Ase	psis means
	(A)	Keeping out micro-organisms
	(B)	Keeping out air
	(C)	Keeping out food
	(D)	Keeping out water
27)		acid is produced in Sauerkraut which helps preserve it.
	(A)	Tartaric
	(B)	Maleic
	(C)	Acetic
	(D)	Lactic
28)	In a	typical bacterial growth curve, resting phase is also called as phase.
	(A)	Survival
	(B)	Log
	(C)	Stationary
	(D)	Death

29)	Yeas	sts best grow at the pH range of
	(A)	2.0-2.5
	(B)	3.0-3.5
	(C)	4.0-4.5
	(D)	5.0-5.5
30)	Dog	radation of protein results in foul smell condition termed as
30)		Purifaction
	` ′	
		Pepticaction District of the state of the s
	` ′	Putrifaction
	(D)	Pectiaction
31)		yeast is used in making beer.
	(A)	Bottom
	(B)	Top
	(C)	Submerged
	(D)	None of the above
32)	Cof	fee is a and roasted product of Coffee beans.
5 -)		Sterilized
	(B)	Fermented
	` /	Pasteurized
	` /	Freezed
	(D)	Preezeu
33)	Salt	and Sugar preserves food because they
	(A)	Make the food acidic
	(B)	Produce high osmotic pressure
	(C)	Produce low osmotic pressure
	(D)	Deplete nutrients

34)		bacteria is thermophillic as well as thermoduric.
	(A)	Streptococcus
	(B)	Lactobacillus
	(C)	(A) and (B)
	(D)	None of the above
35)	Нур	percalcemia means level of blood calcium
	(A)	Decrease
	(B)	Increase
	(C)	Constant
	(D)	None
36)	Viru	ises cannot be cultivated in
	(A)	Tissue culture
	(B)	Bird embryos
	(C)	Live Mammals
	(D)	Blood agar
37)	Whi	ch bacteria is responsible for gas gangrene
	(A)	C. tetani
	(B)	C. botulinum
	(C)	C. perfringens
	(D)	S. typhi
38)	The	pasteurization conditions of milk are worked out based on destruction of
	(A)	Mycobacterium tuberculosis
	(B)	Clostridium botulium
	(C)	Salmonella typhimurium
	(D)	Staphylococcus aureus

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39)	39) Candied fruit covered or coated with a thin transparent coating of imparts to it a glossy appearance is called	
	(A)	Glazed fruits
	(B)	Canned fruits
	(C)	Crystallized fruits
	(D)	Candied fruits
40)		is a method of preservation in which food is packed in hermetically ed containers.
	(A)	Pasteurization
	(B)	Freezing
	(C)	Sterilization
	(D)	Canning
41)		ature fruit of vegetable or its pieces impregnated with heavy sugar syrup t becomes and transparent is known as a preserve.
	(A)	Smooth
	(B)	Soft
	(C)	Hard
	(D)	Tender
42)	Free	eze drying is the preservation method which is also known as
	(A)	Lyophilisation
	(B)	Cryodesiccation
	(C)	Both (A) and (B)
	(D)	None of above

43)		isotopes used in radiation processing of food
	(A)	Co
	(B)	K
	(C)	Na
	(D)	He
44)	Whi	ch of the following is used as a refrigerant?
	(A)	Hydrogen
	(B)	Carbon dioxide
	(C)	Helium
	(D)	Arsenic
45)		processing is a non-thermal method of food preservation.
	(A)	Sterilization
	(B)	Blanching
	(C)	Pulsed Electric Field
	(D)	Canning
46)	Pent	tose (Ribose) synthesis occurs from
	(A)	HMP pathway
	(B)	Glycogenesis
	(C)	Glycogenolysis
	(D)	Gluconeogenesis
47)	Stea	m peeling is used for
	(A)	Potato
	(B)	Onion
	(C)	Orange
	(D)	Beans

48)	EVO	OH stands for
	(A)	Ethylated vinyl alcohol
	(B)	Ethylene vinyl alcohol
	(C)	Ethyl vinyl alcohol
	(D)	Ethylidene vinyl alcohol
49)	Biol	ogical value of protein is maximum.
	(A)	Meat
	(B)	Fish
	(C)	Egg
	(D)	Wheat
50)		help in the transport of lipids in the body.
	(A)	Lipoproteins
	(B)	Glycoproteins
	(C)	Nucleoproteins
	(D)	None
51)	The	storage form of carbohydrate in animals is
	(A)	Glycogen
	(B)	Starch
	(C)	Both
	(D)	None
52)	The	most predominant buffer system in case of humans is
		Carbonate buffer
	(B)	Phosphate buffer
		Protein
	(D)	Hemoglobin

53)	The	pH of blood is
	(A)	7.0
	(B)	7.4
	(C)	8.0
	(D)	6.0
54)	Δna	bolism means
J T)		
		Synthesis
		Decomposition Metabolism
	` /	None
	(D)	None
55)	Ben	efits of omega fats in the diet seem to include:
	(A)	Lowering blood cholesterol levels
	(B)	Producing anti-inflammatory compounds
	(C)	Contributing to the normal development of the foetal brain
	(D)	All of these
56)	PCR	technique was invented by
20)		Cohn
	` ′	Boyer
		Sanger
		Karry Mullis
	(2)	
57)	Lact	ic acid accumulates in blood during
	(A)	Aerobic glycolysis
	(B)	Sleep
	(C)	Anaerobic glycolysis
	(D)	HMP pathway

58)	Making multiple copies of the desired DNA template is called				
	(A)	cloning			
	(B)	transferring			
	(C)	r-DNA technology			
	(D)	genetic engineering			
59)	Aga	rose extracted from seaweeds is used in			
	(A)	Spectrophotometry			
	(B)	Tissue culture			
	(C)	PCR			
	(D)	Gel electrophoresis			
60)	Stiri	red-tank bioreactors have been designed for			
	(A)	Purification of product			
	(B)	Addition of preservatives to the product			
	(C)	Availability of oxygen throughout the process			
	(D)	Ensures anaerobic conditions in the culture vessels			
61)		process of separation and purification of expressed protein before keting is called			
	(A)	Upstream processing			
	(B)	Downstream processing			
	(C)	Bio processing			
	(D)	Postproduction processing			
62)	A gene whose expression helps to identify transformed cell is known as				
	(A)	Selectable marker			
	(B)	Vector			
	(C)	Plasmid			
	(D)	Structural gene			

63)	The	first human hormone produced by recombinant DNA technology is
	(A)	Insulin
	(B)	Thyroxin
	(C)	Estrogen
	(D)	Progesterone
64)	Coe	nzymes combine with
	(A)	Proenzymes
	(B)	Apoenzymes
	(C)	Holoenzymes
	(D)	Antienzymes
65)	Whi	ch of the following technique is used to separate the proteins?
	(A)	Gel electrophoresis
	(B)	Soxhlet extraction
	(C)	Gerber's method
	(D)	Lane & amp; Eynon's method
66)	The	first transgenic plant was
	(A)	Tobacco
	(B)	Pea
	(C)	Brinjal
	(D)	Cotton
67)	The	enzyme required for synthesis of DNA from RNA
		RNA polymerase
	(B)	DNA polymerase
		Reverse transcriptase
	(D)	•
68)	Dial	petes that occurs in the pregnancy period is
	(A)	Juvenile Diabetes
	(B)	Insulin Dependent Diabetes
	(C)	Gestational Diabetes
	(D)	Non-Insulin Dependent Diabetes

69)		have high acid content and low pH.
	(A)	Vegetable
	(B)	Fish
	(C)	Fruit juice
	(D)	Meat
70)	Whi	ch of the following process involves conversion of sugar into alcohol.
	(A)	Blanching
	(B)	Sterilization
	(C)	Fermentation
	(D)	Oxidation
71)	Prol	onging shelf life by using irradiation is referred as
	(A)	Apertization
	(B)	Radurization
	(C)	Radicidation
	(D)	All of above
72)	HAG	CCP stands for
	(A)	Hazard Analysis Critical Control Point
	(B)	Hazard Analytical Critical Common Point
	(C)	Hazardous Analysis Critical Control Point
	(D)	Hazard Analysis Control Critical Point
73)	The	full Form of MAP is known as
	(A)	Modified Atmosphere Packet
	(B)	Modified Atomic Packaging
	(C)	Modified Atmosphere Packaging
	(D)	None of the above

74)	The water activity of fresh fruits and vegetables falls in the range of			
	(A)	0.97 to 0.99	(B)	0.85 to 0.90
	(C)	0.75 to 0.80	(D)	0.90 to 0.95
75)	Suga	ar and salt are used in food produc	ts to	·
ŕ	_	Increase shelf life		
	, ,	Improve taste		
	(C)	Inhibit growth of microorganism		
	(D)	All of above		
76)	PVA	A stands for		
ŕ	(A)	Polyvinyl Alcohol	(B)	Post Vacreation Activity
		Potassium Valeric Acid		None of the above
77)	BM	R is increased in		
		Hypothyroidism	(B)	Hyperthyroidism
	(C)	Both	(D)	None
78)	Con	version of non-carbohydrate substa	ınces	into glucose is
	(A)	Gluconeogenesis		
	(B)	Glycogenesis		
	(C)	Glycolysis		
	(D)	Glycogenolysis		
79)	The	RDA for iron for women is		
	(A)	10 mg/day		
	(B)	15 mg/day		
	(C)	20 mg/day		
	(D)	25 mg/day		

80)	is a sparkling, sweetened fruit juice from which pulp and other insoluble						
	subs	stances have been completely re	emoved				
	(A)	RTS	(B)	Squash			
	(C)	Cordial	(D)	All of above			
81)	Ohn	Ohmic heating referred as					
	(A)	Electro heating	(B)	Radiation heating			
	(C)	Microwave heating	(D)	Cold heating			
82)	The	The metabolic (endogenous) water is derived by the oxidation of					
	(A)	Carbohydrate	(B)	Protein			
	(C)	Fats	(D)	All of them			
83)	bacterium is used in the production of insulin by genetic engineering.						
	(A)	Saccharomyces	(B)	Rhizobium			
	(C)	Escherichia	(D)	Mycobacterium			
84)	The first transgenic plant to be produced is						
	(A)	Brinjal					
	(B)	Tobacco					
	(C)	Rice					
		Cotton					
85)	Freeze dried food contains percent of moisture.						
,	(A)	8-10	(B)	10-15			
	(C)	15-20	(D)	1-5			
86)	Limonene is present in						
	(A)	Orange	(B)	Mandarin			
	(C)	Lime	(D)	Lemon			

87)	Ready to serve beverage consist ofsolids.		fruit juice and		_ total soluble			
	(A)	10%, 40	(B)	25%, 40				
	(C)	10%, 10	(D)	25%, 65				
88)		peeling method used for garlic	and on	ion.				
	(A)	Mechanical peeling	(B)	Lye peeling				
	(C)	Flame peeling	(D)	None of the abo	ove			
89)		brix is the end point of jam.						
	(A)	68 degree	(B)	60 degree				
	(C)	50 degree	(D)	55 degree				
90)	Tast	e buds at the tip of the tongue are	respon	nsible for				
	(A)	astringency	(B)	sweet taste				
	(C)	bitter taste	(D)	none of the above	ve			
91)	Meat, fruit, vegetables are?							
	(A)	Simple food	(B)	Complex food				
	(C)	Functional food	(D)	Nutritive food				
92)	Which one of the following is thickening agent?							
		Agar	(B)	Amylase				
	(C)	Guar gum	(D)	All the above				
93)	Whi	ch one of the following is a non-cli	macter	ric fruit?				
		Litchi	(B)					
	(C)	Apple	(D)	Banana				
94)	Whi	ch of the following is a ripening ho	rmone					
	(A)	GA-3	(B)	Auxin				
	(C)	Cytokinin	(D)	Ethylene				

95)	Chlo	Chlorophyll 'a' and Chlorophyll 'b' occurs in a ratio of about					
	(A)	1:25	(B)	1:05			
	(C)	1:50	(D)	1:10			
96)	Ergo	ot disease is caused by					
	(A)	Puccinia	(B)	Rhizopus			
	(C)	Claveceps	(D)	Penicillium			
97)	Cert	rification Bodies are					
	(A)	First party auditing firms	(B)	Second party auditing firms			
	(C)	Third party auditing firms	(D)	All of the above			
98)	FSS	AI Regulation made mandatory ste	ep foi	every FBO during License or			
	Reg	istration.					
	(A)	Schedule IV Compliance	(B)	GLP			
	(C)	Premise Visit	(D)	Qualified person			
99)	AGMARK standards cover quality guidelines for how many Commodities?						
	(A)	210	(B)	226			
	(C)	224	(D)	222			
100)Goo	od agricultural practice as a collectio	n of p	principles to apply at			
	(A)	On-farm production					
	(B)	Post-production processes					
	(C)	Production					
	(D)	Om-farm production & Post-production	uction	n processes			

Rough Work