

**Booklet No.:** 

#### FT - 15

## **Food Technology**

Duration of Test : 2 Hours		Max. Marks: 120
	Hall Ticket No.	
Name of the Candidate :		
Date of Examination :	OMR A	answer Sheet No. :
Signature of the Candidate		Signature of the Invigilator

#### **INSTRUCTIONS**

- 1. This Question Booklet consists of **120** multiple choice objective type questions to be answered in **120** minutes.
- 2. Every question in this booklet has 4 choices marked (A), (B), (C) and (D) for its answer.
- 3. Each question carries **one** mark. There are no negative marks for wrong answers.
- 4. This Booklet consists of **16** pages. Any discrepancy or any defect is found, the same may be informed to the Invigilator for replacement of Booklet.
- 5. Answer all the questions on the OMR Answer Sheet using **Blue/Black ball point pen only.**
- 6. Before answering the questions on the OMR Answer Sheet, please read the instructions printed on the OMR sheet carefully.
- 7. OMR Answer Sheet should be handed over to the Invigilator before leaving the Examination Hall.
- 8. Calculators, Pagers, Mobile Phones, etc., are not allowed into the Examination Hall.
- 9. No part of the Booklet should be detached under any circumstances.
- 10. The seal of the Booklet should be opened only after signal/bell is given.

FT-15-A



#### FOOD TECHNOLOGY

1.	What	percentage of h	numan	body is made	up of	proteins?			
	(A)	50 percent	(B)	45 percent	(C)	30 percent	(D)	20 percent	
2.		ins are classions in human butamin A				ng is not a fat		they perform specific le vitamin ? vitamin B <sub>6</sub>	
3.	Which	n of the followi	ng sta	tement is incor	rect ir	n relation to fu	ınction	n of minerals ?	
	(A)	Copper is use	ful in	iron absorption	and c	collagen metal	oolism	1.	
	(B)	•		d useful as enz	•				
	(C)	Manganese is	used	in body for cho	olester	ol metabolism	1.		
	(D)	Selenium is us	seful i	n oxygen trans	port.				
4.	Which	n of the followi	ng sta	tement is false	in cor	nnection with	vitami	in ?	
	(A)	Vitamin A is l	highly	sensitive to ac	cid, air	and light.			
	(B)	Vitamin C and	d D ar	e sensitive to a	lkalin	ity, air, light a	nd he	at.	
	(C)	Thiamin acts	as co-	enzyme in ener	rgy me	etabolism.			
	(D)	Niacin helps i	n abso	orption of dieta	ry cal	cium and phos	sphoru	ıs.	
5.	guidel called	ine for all orga	anizati	ions on manag	ing qu	ality and stan	dard.	nodified in 1994) as a Its Indian equivalent is	
	(A)	IS 14000	(B)	IS 12000	(C)	IS 22000	(D)	IS 2000	
6.	The Myear?	•	d Proc	cessing Industr	ies wa	s established	in wh	ich of the following the	
	(A)	1988	(B)	2000	(C)	1996	(D)	2001	
7.	A viso	cosity value of :	50cp v	will be equivale	ent to	how many Pa.	.s ?		
	(A)	$5 \times 10^{-2}$ Pa.s			(B)	$150 \times 10^{-2} \mathrm{P}$	a.s		
	(C)	$250 \times 10^{-2}  \text{Pa}$	.s		(D)	$350 \times 10^{-2} \mathrm{P}$	a.s		
8.	Identi	fy which of the	follo	wing is not a F	low m	easurement de	evice :		
	(A)	Venturi tube			(B)	Pitot tube			
	(C)	Orifice meter			(D)	Lactometer			
9.		-		• •	-			liquids, namely shears are also called	
	(A)	Thixotropic fl		- 1	(B)	Dilatant liqu	_		
	(C)	Pseudoplastic			(D)	Newtonian f			
Set -	A	-			2			FI	Γ

Which of the following mixer is mismatched below?

**10.** 

	(A)	Ribbon mixers	- d	ry powder	and particula	ite foo	ds	
	(B)	Paddle agitators		• •	ium viscosity			
	(C)	Z-blade mixers			ity liquids and	_		
	(D)	Sigma blade mixers		ow viscosi		1		
	, ,				•			
11.		extraction or separation		-				
	-	dients during processi	ng. The p	process of	removing liq	uids fi	rom solids is refe	erred to
	as (A)	Contribugation (P)	Filtration	(C)	Expression	(D)	Extraction	
	(A)	Centrifugation(B)	riiuauoii	(C)	Expression	(D)	Extraction	
12.	The b	enefits of size reducti	on of food	ds in food	processing are	e as fo	llowing, except	
	(A)	A similar range of p	article siz	es allows	more complet	e mixi	ing of ingredients	3
	(B)	Size reduction has li	ttle or no	preservati	ve effect			
	(C)	There is increase in	the surfa	ce area to	volume ratio	of the	e food, which de	creases
		the rate of drying, he	eating or c	cooling				
	(D)	Improves the efficie	ncy and ra	ate of extra	action of liqui	d com	ponents	
13.	Whic	h of the following fac	tors are co	onsidered i	mportant for	the sta	ability of an emul	sion ?
	(A)	The viscosity of the						
	(B)	The type and quantit			ent			
	(C)	The interfacial force	•			bules		
	(D)	The differences betw					continuous phase	S
1.4	<b>3371.:</b> -:	h - f dh - f - 11'		1		C C-	- 1- 9	
14.		h of the following are		-	imate analysi	s of to	ods ?	
	(A)	Proteins, carbohydra		nins				
	(B)	Proteins, carbohydra						
	(C)	Proteins, sugars, min						
	(D)	Fats, vitamins, mine	rais					
15.	Whic	h of the following is le	east relate	d to the ot	her three ?			
	(A)	Evaporation	- Milk	ζ.				
	(B)	Dehydration	- Peas	1				
	(C)	Sun drying	- Grap	oes				
	(D)	Reverse osmosis	- Orar	nge juice				
16.	One o	of the following is a m	aior risk f	factor in he	eart diseases			
10.	(A)	HDL cholesterol	ajor mon	(B)	VLDL chole	esterol		
	(C)	LDL cholesterol		(D)	Triglyceride			
	` '			` ,				
<b>17.</b>	-	tame is a low-calorie	sweetene	r resulting	g from the cor	nbinat	tion of two amino	o acids.
		mino acids used are						
	(A)	Alanine and glutami		(B)	1		-	
	(C)	Aspartic acid and ala	anine	(D)	Aspartic aci	d and	phenylalanine	
Set -	A			3				FT

Set -	A	4 FT
27.	The dimensionless Reynolds number number less than 2100 indicates  (A) Streamline flow  (C) Turbulent flow	<ul><li>(Re) characterizes fluid flow. The Reynolds</li><li>(B) Transitional flow</li><li>(D) Unidirectional flow</li></ul>
	<ul><li>(A) Sensible heat</li><li>(C) Calorie</li></ul>	<ul><li>(B) Specific heat</li><li>(D) Latent heat</li></ul>
26.	Heat required to change, at constant to solid to liquid, liquid to gas or solid to g	emperature, the physical state of materials from as is known as
25.	Which of the following compound cannot (A) Lactic acid (B) Ascorbic acid	ot be synthesised by human body?  (C) Pyruvic acid (D) Oleic acid
24.	<ul><li>Which of the following is referred to as</li><li>(A) Triticum aestivum</li><li>(C) Triticum durum</li></ul>	
23.	shows the following symptoms, except (A) The child gives shriveled appearan (B) The face looks thin and eyes are so (C) Belly generally comes out	
22.	Which of the following is incorrectly materials:  (A) Lactobacillus bulgaricus —  (B) Aspergillus niger —  (C) Rhizopus nigricans —  (D) Saccharomyces cerevisiae —	fermented milk amylases gluconic acid bread
21.	Rigor mortis results in increase in lactic (A) Amylopectin (B) Amylose	acid content in meat which is formed from (C) Glycogen (D) Dextrins
_ • •		may not be added in wheat flour for this purpose  (B) Acetone peroxide (D) Potassium propionate
19. 20.	on dry weight basis? (A) 22 percent (B) 25 percent	wet weight basis. Calculate its moisture content  (C) 31 percent (D) 45 percent  r improves when they are treated with maturing
18.	<ul><li>Which of the following is least related to</li><li>(A) Bligh and Dyer technique</li><li>(C) Soxhlet extraction</li></ul>	<ul><li>(B) Mojonnier method</li><li>(D) Gerber method</li></ul>

28.	Whi	ch of the follo	wing i	s not an exam <sub>l</sub>	ple of p	ositive displa	cemen	it pump?		
	(A)	Gear pump	_		(B)	Rotary pum	p			
	(C)	Centrifugal p	oump		(D)	Reciprocation	ng pun	np		
29.	In w	hich of the fol	lowing	g industrial op	eration			red?		
	(A)	Freezing			(B)	Emulsificati	ion			
	(C)	Pasteurizatio	n		(D)	Blanching				
30.	Why	food kept at r	efrige	rated condition	ns is co	nsidered safe	?			
	(A)	Low tempera	ature a	rrests growth	of patho	ogens				
	(B)	Low tempera	ature a	rrests growth o	of psyc	hrophiles				
		Low tempera								
	(D)	Low tempera	ature a	rrests growth	of all m	icrobes				
31.	Glia	din protein of	gluten	is responsible	for wh	ich character	istics o	of dough?		
	(A)	Extensibility	,		(B)	Elasticity				
	(C)	Dough stabil	ity		(D)	Water holdi	ng cap	acity		
32.	Whi	ch of the follo	wing d	lryer is commo	only us	ed for drying	of pea	s ?		
	(A)	Drum dryer			(B)	Fluidized be	ed drye	er		
	(C)	Spray dryer			(D)	Bin dryer				
33.	Acco	ording to FPO	specif	ications a tom	ato pas	te must conta	in			
	(A)	15 % TSS	(B)	25 % TSS	(C)	30 % TSS	(D)	40 % TSS		
34.	Wate	er hardness inf	fluence	es the processe	ed food	quality. The	hardne	ess of water	is measu	ıred
	in pa	rts per million	ı of							
	(A)	Calcium carl	onate		(B)	Calcium chl	oride			
	(C)	Calcium sul	phate		(D)	Calcium oxa	alate			
35.	Redi	action in the si	ze of s	solid food is re	eferred	to as				
	(A)	Emulsification	on		(B)	Commination	on			
	(C)	Homogeniza	tion		(D)	None of the	se			
36.	Whi	ch of the follo	wing r	nixer is genera	ally use	d to mix brea	d doug	gh?		
	(A)	Trough mixe	er		(B)	Ribbon mix	er			
	(C)	'Z' blade mi	xer		(D)	Cone mixtu	re			
37.	A p	rocess of exp	osing	the raw fruit	ts and	vegetables to	heat	for a few	minutes	by
	imm	ersing in boili	ng wat	er or with stea	am is kı	nown as				
	(A)	Blanching	(B)	Cooking	(C)	Thawing	(D)	Heating		
38.		ch of the follo	_		to othe	r three ?				
	(A)		_	beans						
	(B)	Baking	-	biscuits						
	(C)	Drying		peas						
	(D)	Freezing	_	red meat						
Set -	A				5					FT

**39.** Which of the following term is incorrectly defined?

(A) Cold shortening - undesirable changes to meat caused by cooling before

rigor mortis has occurred

(B) Chilling injury - physiological changes to some types of fruits and

vegetables caused by low temperature which results in

loss of eating quality

(C) Rigor mortis – a condition in which muscle tissues become extensible

(D) Dew point – temperature at which an air-water vapour mixture

becomes saturated with moisture, making onset of

condensation

**40.** Starch is made up of two distinct polymers, amylose and amylopectin. Waxy wheat starch has been shown to lack measurable amount of

- (A) Amylopectin
- (B) Amylose
- (C) Both amylose and amylopectin
- (D) Neither amylose nor amylopectin

**41.** Some of the physical characteristics of food are described below. Find the one, which is incorrectly defined.

- (A) Elasticity the rate at which a deformed food sample goes back to its original condition after the deforming force is withdrawn.
- (B) Gumminess the quantity to stimulate the energy required to disintegrate a semisolid food sample to a steady state of swallowing
- (C) Chewiness the quantity to stimulate the energy required to masticate a semi-solid food sample to a steady state of swallowing
- (D) Friability the hardness of a food and its tendency to resist crack.
- **42.** In a food processing industry, several unit operations are carried out. Identify the one, which is incorrectly defined?
  - (A) Grading the assessment of a number of attributes to obtain an indication of overall quality of a food
  - (B) Filtration the separation of liquid from solids by applied pressure
  - (C) Sorting the separation of foods into categories on the basis of a measurable physical properties
  - (D) Ohmic heating direct electrical heating of foods

**43.** Naturally occurring pigments in food are generally water-soluble. Identify the one, which is oil soluble pigment.

(A) Anthocyanins (B) Betalaines (C) Carotenes (D) Curcumin

**44.** Hard wheat tends to contain relatively low levels of starch and high levels of proteins, while reverse is true for soft wheat. Which of the following statement is incorrect?

- (A) Durum wheat flours are best suited for pasta products.
- (B) Wheat holds a unique place amongst cereals because upon mixing wheat flour with water, an elastic matrix called gluten is formed.
- (C) High protein flours are best suited for biscuits.
- (D) Low protein flours are best suited for cakes and pastries.

Set - | A | 6 FT

45.	Different types of maize are classified on the basis of their protein content and the hardness of the kernel. Much of the niacin in corn is in a bound form and this led to a disorder in population where corn is the staple food. This niacin deficiency is known as (A) Pellagra (B) NTD (C) Rickets (D) Jaundice									
46.	Oats have a relatively minor status a process and are unstable due to their hi possible blood cholesterol lowering eff use for human food in developed cour responsible for cholesterol lowering eff (A) Beta amylase (C) Lipase activity	gh lipidect of of outries.	d content and lip oat bran have inc Which of the foll	ase activity. Reports of reased the popularity of lowing constituents is h	the f its					
47.	There is a considerable variation in the following cereals contain highest perce	ntage c	of protein content	?	the					
	(A) Brown rice (B) Sorghum	(C)	Maize (	(D) Pearl Millet						
48.	Cereals contain appreciable amounts of following antinutritional substance is not (A) Tannins (B) Phytates		d in appreciable	quantity in cereals?	the					
49.	Foods can be classified according to the and highly acid foods. Which of the fivalue?  (A) Low acid pH 5.0 and higher	followi: –	ng class of food peas, beans, asp	does not have correct paragus						
	<ul> <li>(B) Medium acid pH 5.0 – 4.5</li> <li>(C) Acid pH 4.5–3.7</li> <li>(D) Highly acid pH 3.7 and below</li> </ul>	_ _ _	meat, spaghetti, sauerkraut, rhub pickles, citrus ju	parb, berries						
50.	<ul><li>A mixture of water and sodium chloride</li><li>(A) Evaporation</li><li>(C) Fractional distillation</li></ul>	(B)	e separated by Simple distillati Decantation	ion						
51.	The watery part of milk separated from the manufacturing of	curd o	luring cheese ma	king is extensively use	d in					
	(A) Lactic acid (B) Amines	(C)	Protein (	D) Starch						
52.	The element which is required in the la	rgest ai	mounts by the hu	ıman body is						
	(A) Calcium (B) Zinc	_	•	D) Iron						
53.	Typical temperatures for a range of Indicate which one of the following is a (A) Spray drying, Baking (B) Extrusion cooking, UHT (C) Canning (D) Pasteurization, hot-air drying	-	0 1	tions are indicated bel	ow.					
Set - [	A	7			FT					

54.	Enth	alpy is the heat content or energy le	evel in	a system per unit mass, and its unit is:
	(A)	Joules/kg	(B)	Joules/kg °C
	(C)	W/m °C	(D)	None of the above
55.		echnique for separating proteins a	and n	ucleic acids on the basis of charge and
	(A)	Chromatography	(B)	SE-HPLC
	(C)	RP-HPLC	(D)	Electrophoresis
56.		nalytical procedure where the weig ments is called	tht of a	a food constituent is measured after suitable
	(A)	Gravimetric analysis	(B)	Titrimetric analysis
	(C)	Physical analysis	(D)	Volumetric procedure
57.		ein can be assessed in foods by sevent used for protein estimation?	eral m	ethods. Which one of the following method
	(A)	Kjeldahl method	(B)	Formol titration
	(C)	Thermal combustion method	(D)	Soxhlet method
58.	Whi	ch of the following organism play in	mporta	ant role in the production of pickles?
	(A)	Distiller yeast	(B)	S. cerevisiae
	(C)	Lactobacillus plantarum	(D)	Azatobacter
59.	India	a ranks first in the world for annual	produ	ction of
	(A)	Milk	(B)	Cereal grains
	(C)	Rabbit Meat	(D)	Vegetables & fruits
60.		a is prepared by continuous boiling total solids in khoa is	g of m	nilk until desired concentration is achieved.
	(A)	95 - 92 percent	(B)	85 - 82 percent
	(C)	75 - 78 percent	(D)	65 - 72 percent
61.	Whi	ch one of the following compounds	provi	des food to yeast ?
	(A)	Ammonium chloride	(B)	Diastase
	(C)	Zymase	(D)	Ammonium sulphate
62.	In ca	ase of jelly the phenomenon of spon	itaneoi	us exudation of fluid from a gel is called
	(A)	Cloudy jelly	(B)	Foggy jelly
	(C)	Weeping jelly	(D)	Synegy jelly
Set -	A		8	FT

63.	ketc	natoes are processed into a chup. These products should following product has incompared to the characteristics of	d hav	ve minimu	um	prescribed tot		
	(A)	0.1					ato solids	
	(B)	Tomato ketchup contains			-	-		
	(C)	Tomato puree contains no			-			
	(D)	Tomato juice should have	a to	tal solids	con	tent of 5.66 pe	ercent	
64.	matt	egar is a fermented product, ter, salts and a few other for aroma to the product. It sho	erme	entation pi	rodı	ucts those imp		_
	(A)	6 percent acetic acid		(B)	8 1	percent acetic	acid	
	(C)	10 percent acetic acid		(D)	4 լ	percent acetic	acid	
65.	Whi	ich of the following is incor	rectl	y matched	1?			
	(A)	Thermal capacity –	ca	lorie/°C				
	(B)	Latent heat –	ca	lorie/gm				
	(C)	Heat –	Jo	ule				
	(D)	Specific heat –	ca	lorie/gm/°	°C			
66.		a gram of water to cha	ınge	into gas	s, 5	540 calories	is required.	This energy
	(A)	Heat of solidification		(B)	Не	eat of vaporiza	ation	
	(C)	Heat of fusion		(D)		eat of evapora		
<b>67.</b>	Whi	ich of the following is incom	rectl	y matched	1?			
	(A)	Ascorbic acid	_	antioxida	nt			
	(B)	Benzoic acid	_	preservati	ive			
	(C)	Monosodium glutamate	_	anticaking	g ag	gent		
	(D)	BHQ	_	antioxida	nt			
68.	Whi	ich of the following term is	inco	rrectly def	fine	d ?		
	(A)	TSS is the amount of su vegetables	ıgars	s and wat	ter s	soluble substa	ances presen	t in fruit and

- (B) De-tartarisation is the elimination of sodium bi-tartrate from fruit beverages
- (C) Pasteurization is the process of heat treatment used to reduce the total microflora, especially pathogenic bacteria
- (D) Decanter is the process of removal of suspended material from fruit juice

**Set - A 9 FT** 

69.	in po	is a product wo osition and is a and invert sug	nade b	y boiling fru	it pulp	with sufficien			
	(A)	· ·		35 percent		25 percent	(D)	10 percent	
70.	The	finishing or en	d point	t of jam can l	oe deter	mined by the	follow	ing methods, e	xcept
	(A)	Drop test	(B)	Jel test	(C)	Sheet test	(D)	Refractomete	er test
71.		ch of the fol ifications?	lowing	fruit produ	ict has	incorrect T	SS in	accordance w	ith FPO
	(A)	Fruit jam	68 %	TSS (minim	num)				
	(B)	Fruit jelly	65 %	TSS (minim	num)				
	(C)	Marmalade	68 %	TSS (minim	num)				
	(D)	Fruit preserv	e 68 %	TSS (minim	num)				
72.	30 n	nilk processing nin causes grea nod where milk	iter cha	inges to flavo					
	(A)	72 °C for 15	S		(B)	90 °C for 0.	1 s		
	(C)	90 °C for 0.0	1 s		(D)	90°C for 1 s	S		
73.	The	process of dry	ing in v	which ice is d	lirectly	converted int	o vapoı	ırs is known as	S
	(A)	Cabinet dryin	ng		(B)	Sun drying			
	(C)	Sublimation			(D)	Tunnel dryi	ng		
74.	Whi	ch of the follow	wing st	atements cor	rectly d	escribes HAC	CCP ?		
	(A)	Hazard analy	sis and	l quality cont	rol poir	ıt.			
	(B)	Hazard analy	sis and	l critical cont	rol poir	ıt.			
	(C)	Hazard asses	sment	and quality c	ontrol p	oint.			
	(D)	Hazard asses	sment	and critical c	ontrol p	oint.			
75.	In w	heat dough, th	e starcl	n is converted	d into su	gar by the ac	ction of		
	(A)	Amylase	(B)	Protease	(C)	Lipase	(D)	Zymase	
76.	Whi item	ch of the follo	owing	is incorrectl	y matcl	hed for meas	suring 1	the tenderness	of food
	(A)	Pastry	_	Shortomet	er				
	(B)	Bread	_	Compressi	imeter				
	(C)	Apple	_	Texture an	alyzer				
	(D)	Grape Jelly	_	Masticome	eter				
Set -	A				10				FT

	(C)	Vitamin D	ic incres	sed in ultrav	iolet rad	iation			
	(B)			ole to heat bu	•	_			
	(A)	rays and air	•	•	·	-		it is destroyed	by UV
83.	Whi	ch of the follo	owing s	tatement with	n respect	t to vitamin	stability	in foods is incom	rrect?
	prote (A)	ein. Which of Globulin	the foll (B)	Gliadin	protein (C)	? Gluten	(D)	Albumin	
82.		-					ed celiad	c disease to whe	at grain
	(C)	about 2.0 ti	mes		(D)	about 1.7 t	imes		
	(A)	about 1.3 ti	mes		(B)	about 2.5 ti	imes		
81.		rt sugar syru ch is sweeter	•	• •	uimolecu	ular combin	ation of	Glucose and Fi	ructose,
	(D)	Honey	-	17 percent i	moisture	•			
	(C)	Bread	-	20 percent i	moisture	<b>)</b>			
	(B)	Raisins	-	18 percent i	noisture	<b>)</b>			
	(A)		-	40 percent i					
80.		sture content uct is incorre			-			Which of the fo	llowing
	(C)	Whey			(D)	Creamy flu	ıid		
	(A)	Wash liquid	d		(B)	Affluent lie	quid		
79.		liquid separa to precipitate			milk co	pagulation by	y applica	ation of either re	ennet or
		Cystine	(B)			Lysine	(D)	Valine	
<b>78.</b>	Whi	ch of the foll	owing is	s not an essen	ıtial ami	no acid?			
	(D)	All of the a	bove						
	(C)	It maintains	s healthy	immune sys	tem				
	(B)	It is needed	for our	cardiovascul	ar well-	being			
	(A)	Vitamin A yellow fruit			using be	eta-carotene	, a cher	mical present in	n many
						ring is true for			

84.		Enzymes and other additives are used as processing aids. Rennet is used in one of ollowing the food products:								
	(A)	Wine making			(B)	Cheese man	ufacture	e		
	(C)	Yogurt makin	g		(D)	Butter manu	facture			
85.		milling process			s of fo	ood value. Th	ne refin	ement of cer	real grains	
	(A)	K	(B)	E	(C)	В	(D)	C		
86.	The	food constituen	ts und	lergo changes o	on pro	ocessing. Milk fat in butter should be				
	(A)	not less than 8	30%		(B)	65%				
	(C)	75%			(D)	not less than 90%				
87.	The are	food constituer	nts pro	ovide us energ	y to w	vork. The prin	ncipal s	sources of fo	od energy	
	(A)	fats and protei	in		(B)	proteins and	carboh	ydrates		
	(C)	carbohydrates	and f	ats	(D)	vitamins and	l carbol	nydrates		
88.	Man	y diet related di	sorde	rs occur in hun	nan be	eings. Kwashi	orkor is	s a disease re	lated to	
	(A)	Fatty acid def	icienc	y	(B)	Vitamin defi	ciency			
	(C)	Food energy of	leficie	ncy	(D)	Protein defic	eiency			
89.		l poisoning occles. The most d		_	_		or hand	ling of proce	essed food	
	(A)	Salmonella sp	p.	_	(B)	Clostridium	perfrin	geus		
	(C)	Staphylococci	ıs aur	eus	(D)	Clostridium	botulin	um		
90.		agricultural co			essed	for certain a	dvantag	ges. Food pr	eservation	
	(A)	Enzymatic cha	anges		(B)	Nutritional c	hanges			
	(C)	Microbial cha	nges		(D)	All the abov	e			
91.		oiling is used i		Asian countrie	es for	grain process	sing. F	Parboiling te	chnique is	
	(A)	Rice	(B)	Wheat	(C)	Maize	(D)	Millets		
92.	Whic	ch of the follow	ing is	correctly mate	ched?					
	(A)	ISO 9001 - de	als wi	th product dev	elopm	nent & manufa	acturing			
	(B)	ISO 9002 - co	ompar	ies doing only	manu	ıfacturing				
	(C)	ISO 9004 - de	eals w	ith quality mar	nagem	ent and system	m			
	(D)	All the above								
Set - [	A				12				FT	

93.	The (A) (B)		rease	d levels of hea	-	moting substan		naterials for c	consumer				
	(C) (D)	Foods those a None of the al		sed by organic	farmi	ng							
94.	Which (A) (B) (C) (D)	Animal fats to Coconut and causing these Fats are a con Fats are a me	Animal fats tend to have less unsaturation and are therefore harder fats Coconut and palm kernel oil have short to medium chain saturated fatty acids causing these to be solid at room temperature Fats are a concern because they have a high caloric density of 7 cal/g Fats are a medium of heat transfer and are used to thermally process number of food products.										
95.	wate	et food produc r has been remo 0.56 kg		How much ma	ass of			kilogram of w	_				
96.	conte	moisture content ent on dry basis 100%		a food product		% (wet basis). 60%	What (D)		moisture				
97.	of th	weight of rice e following is t 15-29 mg		rrect range for	full ke	ernel weight of	rice ?		Thich one				
98.		nectars are prence of sugar, v					•	-					
	(A) (C)	25-50% More than 50°	%		(B) (D)	15-25% 65%							
99.		density of grai Rheometer		_		splacement me Pycnometer		_	r				
100.	As p (A) (B) (C) (D)	er PFA definition Not less than a second not less	40 per 36 per 46 per	rcent TS rcent TS rcent TS	ould c	ontain							
101.		I Safety and Sessing industrie Eleven members Nine members Seven members	es. It hers included include i	as cluding chairn ading chairma luding chairm	nan n an	dia has been	establi	ished to regul	late food				
Set - [	A				13				FT				

102.		Colour of a food product can be measured by following techniques/instrument:							
	(A) (C)	Hunter lab colour me Tintometer	ter	(B) (D)		meter			
	(C)	Timometer		(D)	All the above				
103.	Malting process allows malt amylase and proteinases to degrade starch and protein to								
	(A)	A) glucose and peptone as well as peptides							
	(B)	glucose and amino ac	eids						
	(C)	maltose and peptone	as well as per	otides					
	(D)	maltose and amino ac	eids						
104.	Which one of the following is a water-soluble pigment?								
	(A)	_				(D)	Carotene		
105.	Ther	e are several ways of	arriving at the	e stan	dards for produ	uct au	uality but four m	ethods	
		There are several ways of arriving at the standards for product quality but four methods are commonly used which are given below, except							
	(A)	<u> </u>	_		-	ds			
	(C)	Guided standards	-	(D)	Industry stand	lards			
106.	Ном	many high molecular	weights suhu	nits aı	re contained in	a sino	ole wheat cultiva	r ?	
100.	(A)	1-2 HMW-GS	weights saou	(B)	3-5 HMW-GS		Sie Wileat eartiva		
	` ′	2-6 HMW-GS		` /	4-5 HMW-GS				
	( )			( )					
<b>107.</b> Wheat gluten proteins are classified into gluten forming and non-gluten form The average percentage of gluten forming proteins in bread wheat cultivars is								oteins.	
			50 percent				80 percent		
	, ,	• , ,	•	, ,	-	. ,	•		
108.		Water activity of some food is given below. Which one is mismatched?							
	(A)	Condensed milk -	$0.80~\mathrm{a_w}$						
	(B)	Jam -	$0.75~\mathrm{a_w}$						
	(C)	Biscuits -	$0.30~a_{\mathrm{w}}$						
	(D)	Bread -	$0.70~a_{\rm w}$						
109.	Sulf	Sulfur dioxide is a food preservative that has following characteristics, except							
	(A) Effective at various pH conditions								
	(B)	Its mechanism of acti	vity is unkno	wn					
	(C)	Used in dried fruits, v	wine, lemon j	uice, f	ruit juices				
	(D)	Active against bacter	ia but not acti	ve ag	ainst fungi				
110.	Falli	Falling number value is linked to amylase activity in wheat flour. Which of the following							
- <del>-</del>		ng number value is reco	•		•			8	
	(A)	=	100 sec	(C)	600 sec	(D)	250 sec		
Set -	A			14				FT	

Set -	A				15				FT	
	(C)	Conjugated p	roteins		(D)	Gluten —				
	(A)	Zein	, .		(B)	Albumin				
120.	The common term used for water-soluble protein									
	(C)	Liver			(D)	All the above	•			
	(A)	Green vegetal	bles		(B)	Milk				
119.		min A is preser			( <b>D</b> )	M:11_				
	(C)				(D)	Vitamin B-co	лпрех			
	` ,	Vitamin C an			, ,		_			
	belov (A)	w: Vitamin C an	d F		(B)	Vitamin A aı	nd B			
118.		Some vitamins also act as antioxidants. Identify such vitamins from the choices given								
	(D)	Flavor		- a blend o	of taste	e and smell				
	(C) RDA - recommended dietary allowances					inces				
	(B) Hedonic scale - food test				_					
	<u> </u>				-	ging material				
117.	Which of the following is matched incorrectly?									
	(D)	Vitamin D	-	Marasmus						
	(C)	Protein	-	Kwashiorkor						
	(B)	Thiamin	-	Beriberi						
,	(A)	Vitamin C	-	Scurvy						
116.	Whi	ch one is incor	rectly	matched?						
115.		e acid is a/an B vitamin	(B)	Amino acid	(C)	Fatty acid	(D)	Mineral		
	(A)	Jaundice	(B)	NTD	(C)	Rickets	(D)	Pellagra		
114.	Much of the niacin in corn is in a bound form and this led to a disorder in population where corn is the staple food. This niacin deficiency is known									
	(C)	Nutritional ch	nanges		(D)	All the above	e			
113.	Food (A)	ood preservation has the principal aim of A) Microbial changes			of sup (B)	opressing Enzymatic changes				
	(C) Penicillium notatum			(D)	Penicillium chrysogenum					
112.		ame fungi used for cheese making  A) Penicillium camemberti			(B)	Penicillium gaualum				
110	` '		<b>\</b>		(C)	7+0	(D)	J+10		
111.	The (A)	-	of who	-	nked to	o which of the 7+8	follow (D)	ving HMW-GS ? 5+10		

#### SPACE FOR ROUGH WORK