Set No. 1	18P/280	6/23
Total No. of Printed Pages	: 22	Question Booklet No530
(To be f	illed up by the candidat	te by blue/black ball-point pen)
Red No.		
Roll No. (Write the digits in	words)	2018
Serial No. of OMP. Answer	Sheet	The state of the s
Centre Code No.		1000000
Day and Date		(Signature of Invigilator)

## INSTRUCTIONS TO CANDIDATES

- is a only blue/black bull-point pen in the space stove and on both sides of the Answer Sheet )
- Within 30 minutes of the issue of the Question Booklet, meck the Question Booklet to ensure that it contains all the pages in correct sequence and that no page/question is missing. In case of faulty Question Booklet bring it to the notice of the Superintender /favigi ators immediately to obtain a fresh Question Booklet.
- 2 On not bring any loome parer, writter or blank, inside the Examination Half except the Admit Card.
- 5. s reparate OMR Answer Sheet is given. It should not be folded or mutilated. A second OMR suswer Sheet shall not be provided. Only be OMR Answer Sheet will be evaluated.
- 4. Write all entries by blue black per in the space provided above.
- On the front page of the OMR Answer Sheet, write by pen your Roll Number in the space provided at the top, and by Markening the circles at the bottom. Also, write the Question Booklet Number, Centre Code Number and the Set Number wherever applicable in appropriate places.
- 6. No overwriting is allowed in the entries of Roll No., Question Booklet No. and Set No. (if any) on OMR Answer sheet and Roll No. and OMR Answer sheet no. on the Question Booklet.
- 7. Any change in the aforesaid entries is to be verified by the invigilator, otherwise it will be taken as unfair means.
- 8. Each question in this Booklet is followed by four alternative answers. For each question, you are to record the correct option on the Answer Sheet by darkening the appropriate circle in the corresponding row of the Answer Sheet, by pen as mentioned in the guidelines given on the first page of the OMR Answer Sheet.
- For each question, darken only one circle on the OMR Answer Sheet. If you darken more than one circle or darken a circle partially, the answer will be treated as incorrect.
- 10. Note that the answer once filled in ink cannot be changed. If you do not wish to attemp: a question, leave all the circles in the corresponding row blank (such question will be awarded zero mark).
- The cough work, use the inner back page of the rule cover and the blank page at the end of this Booklet
- \* The completion of the first, the capabiants must handover the OMR Answer Sheet to the Invigilator of the examination from half, Isowers a capabidates are allowed to take away Test Booklet and copy of UMR Answer Sheet with them.
- is a redictates are not pormitted to less the Excurination Hall until the end of the Test.
- + 315 Societate attempts to exponentions of sental means, batche chole he liable to sent attentions and

# ROUGH WORK एक कार्य

.

.

100

# No. of Questions: 120

Tin	ne : 2 Hoi	urs]	[Full Man	ks: 360
No	ote : (i)	marks. One mar	uestions as you can. Each question carries 3 k will be deducted for each incorrect a awarded for each unattempted question.	(Three)
	(ii)		alternative answers seem to be approximate oose the closest one.	to the
		A1		
١.	The ch	eaper materials add	ed to food items for more profit are called	
	(1) Ad	ulterants	(2) Drugs	
	(3) Bo	th of these	(4) None of these	
2.	The or	ganisms who can sy	nthesize their own food are termed as	
	(1) Au	totrophic	(2) Heterotrophic	
	(3) Ch	emoautotrophic	(4) Chemoheterotrophic	
3.	The org		nutrients from dead and decaying organic ma	aterials
	(1) Par	asitic	(2) Saprophytic	
	(3) Het	erotrophic	(4) Autotrophic	
			(1) (Turi	1 Over)

4.	Relationship be	tween EMC and RH	l for biological materi	als has been given by
	(1) Perry	(2) Rankine	(3) Janssen	(4) Henderson
5.	If the moisture content on dry	content of a food probasis will be	roduct on wet basis is	50.76 %, its moisture
	(1) 33.67 %	(2) 103.09 %	(3) 150.76 %	(4) 49.24 %
6.	The amount of comparison to		se the temperature of	1 g of milk by 1 ℃ in
	(1) 85 %	(2) 93 %	(3) 107 %	(4) The same
7.	down into small	erical object having ller particles of abou aterial in cc will be	at 1 mm size. The stor	e. The object is broken age requirement of the
	(1) 1000 cc	(2) 800 cc	(3) 1200 cc	(4) 1400 cc
8.	A dimensionle within a solid is		ve heat transfer to co	nduction heat transfer
	(1) Nusselt nu	mber	(2) Prandtl num	ber
	(3) Lewis num	ber	(4) Biot number	
9.		y of an agricultural pulk density of the pr		The porosity of the bulk
	(1) 1.00	(2) 1.25	(3) 1.50	(4) 1.75
			(2)	(Continued)

(Turn Over)

10.	Air at 40 °C and 50 % RH has a wet humidity decreases to 40 %, the wet b	bulb depression of 10 °C. If the relative ulb depression will
	(1) Increase	(2) Decrease
	(3) Remain constant	(4) Follow no definite trend
11.	Decimal reduction time in microbial	destruction is inversely proportional to
	(1) Z-value	(2) Universal gas constant
	(3) Initial concentration	(4) Reaction rate
12.	Which among the following is present milk	more in cow milk as compared to buffalo
	(1) Fat (2) Carotene	(3) Minerals (4) Sugar
13.	As pressure is reduced, the latent heat	value
	(1) Increases	(2) Decreases
	(3) Remains the same	(4) None of these
14.	The energy required in grinding large the function of	solid particles is inversely proportional to
	(1) Diameter	(2) Density
	(3) Strength	(4) Shape

(3)

15	Essential oil obtained from tulsi is called		
	(1) Oil of basil	(2) Oil of essenc	e
	(3) Oil of olive	(4) Essential oil	
16	. For drying, fruits and vegetables a	are sliced for increasing	
	(1) Temperature	(2) Humidity	
	(3) Surface area	(4) None of above	e
17	. Yoghurt contains useful		
	(1) Bacteria (2) Virus	(3) Yeast	(4) Spores
18	. Redness in apple is due to		
	(1) Anthocyanin	(2) Lycopene	
	(3) Carotene	(4) Xanthophylls	
19.	Wax coating treatment enhances the	ne shelf-life of fruits be	cause it blocks
	(1) Transpiration	(2) Respiration	
	(3) Ripening process	(4) None of these	
20.	The yellow colour in onion is due t	o the pigment	
	(1) Anthocyanin (2) Quercetin	(3) Lycopene	(4) Carotene
	(	4)	(Continued)

21.	Which one of the	following is ethylen	e absorbent?	
	(1) KCI	(2) KMnO <sub>4</sub>	(3) KNO <sub>3</sub>	(4) K <sub>2</sub> SO <sub>4</sub>
22.	Fruits which show	v a rise in respiration	rate during the ripenin	g process are called
	(1) Climacteric		(2) Non-climacteri	c
	(3) Parthenocarp	ic	(4) Parthenogenetic	c
23.	The yellow pigme	ent in papaya fruit is		
	(1) Carotene	23.1	(2) Xanthophylls	
	(3) Anthocyanin	19	(4) Caricaxanthin	
24.	Fruit stored in col	ld chamber exhibits l	onger life because	
	(1) The rate of re	spiration decreases	it.	84 <sub>23</sub>
	(2) There is an increase in humidity			
	(3) Exposure to s	un light is prevented		
	(4) CO <sub>2</sub> concentra	ation in the environn	nent is increased	
25.	Pungency in chill	i is due to the presen	ce of	
	(1) Capsaicin		(2) Sulphur	
	(3) Amides		(4) Magnesium	
		(5)		(Turn Over)

26	6. Which of the following fruit contains the highest amount of ascorbic acid		
	(1) Indian Gooseberry		(2) Mango
	(3) Apple		(4) Orange
27	. Which one of the following is	a riche	st source of vitamin A?
	(1) Ripe mango fruit		(2) Carrot root
	(3) Ripe papaya fruit		(4) Ripe tomato fruit
28.	The plant growth hormone whi	ch help	s in enlarging the grape berries is
	(1) Ascorbic acid		(2) Gibberelic acid
	(3) Cytokinins		(4) Ethylene
29.	Which of the following is comr tomato ketchup?	nonly u	sed as preservative in the preparation of
	(1) Potassium metabisulphite		(2) Sodium benzoate
	(3) Sodium metabisulphite		(4) Citric acid
30.	Which one of the following is a vegetables?	method	d of long term preservation of fruits and
	(1) Pasteurization		(2) Blanching
	(3) Refrigeration		(4) Drying
		(6)	(Continuea)

31.	Yellow coloured	fruits and vegetal	oles are rich sources of	
	(1) Vitamin E	(2) Vitamin C	(3) Vitamin A	(4) Vitamin B
32.	Refractometer is	used to determin	e	
	(1) Minerals	(2) TSS	(3) Vitamins	(4) Protein
33.	Central Food Tec	hnological Resea	rch Institute is located a	nt
	(1) New Delhi	(2) Mysore	(3) Bangalore	(4) Hyderabad
34.	The edible part of	f pomegranate is		
	(1) Thalamus	(2) Mesocarp	(3) Endocarp	(4) Aril
35.	Which of the foll	owing is the riche	est source of iron?	
	(1) Parsley	(2) Spinach	(3) Celery	(4) Green peas
36.	An ideal fruit for	making jelly shou	ld be rich in	
	(1) Pectin and su	gars	(2) Acids and prote	eins
	(3) Sugars and ac	ids	(4) Pectin and acid	s
37.	A cyclone separa	tor is used for sepa	arating	
	(1) Particles from	n liquids	(2) Liquid droplets	from gases
	(3) Fine particles	from solids	(4) All of the above	e
		(	7)	(Turn Over)

38.	In single effect evaporator the economy is		
	(1) Equal to !	(2) Greater than 1	
	(3) Less than 1	(4) Less than or equal to 1	
39.	The most commonly used fumigant fo	r storage of cereals is	
	(1) Zinc phosphide	(2) Ethylene dibromide	
	(3) Aluminium phosphide	(4) DDT	
40.	Extraction of soluble constituents from as	m a solid by means of solvent is known	
	(1) Distillation	(2) Leaching	
	(3) Evaporation	(4) Sublimation	
41.	Addition of salt to ice will		
	(1) Increase the temperature of the mi	xture	
	(2) Decrease the temperature of the m	ixture	
	(3) Not alter the temperature of the m	ixture	
	(4) Do nothing of the type said earlier		

42.	The first law of	thermodynamics	s is a special case of	
	(1) Newton's law	v		
	(2) Law of cons	ervation of energ	sy.	
	(3) Charle's law			
	(4) The laws of h	neat exchange		
13.	Pascal is a unit of	of		
	(1) Displacemen	nt	(2) Temperature	
	(3) Pressure		(4) Viscosity	数
44.	A pyrometer is u	ised to measure		
	(1) Temperature		(2) Pressure	
	(3) Humidity		(4) Displacement	
<b>1</b> 5.	One ton of refrig	geration is equiva	lent to	
	(1) 50 kcal / min	ı	(2) 100 kcal / min	ss <sup>®</sup>
	(3) 150 kcal/mi	in	(4) 200 kcal / min	
6.	The boiling poin	t of milk in degre	ee Celsius is	
	(1) 99.5	(2) 100.17	(3) 99	(4) 101
			(9)	(Turn Over)

47.	Dielectric consta	nt of a food material	depends upon	
	(1) Temperature		(2) Moisture conte	nt
	(3) Density		(4) Electrical cond	uctivity
48.	A boy has 240 gra he must add to th	ams of water at 50 °C. e water to lower the v	The number of grams water temperature to	of ice at 0 °C which 0 °C is
	(1) 135	(2) 150	(3) 120	(4) 175
49.	Which one of the	following is deficien	nt in milk ?	
	(1) Iron	(2) Calcium	(3) Phosphorous	(4) Lactose
50.	Headquarters of	the Food and Agricul	ture Organization is l	ocated at
	(1) Geneva	(2) New Delhi	(3) Rome	(4) New York
51.	The antisterility	vitamin is	6),	
	(1) Vitamin A	(2) Vitamin B	(3) Vitamin E	(4) Vitamin D
52.	Which of the fol	lowing sugars is swee	etest?	
	(1) Galactose	(2) Glucose	(3) Fructose	(4) Sucrose
53.	Zero energy coo	l chambers operate of	n the principle of	
	(1) Second law of	of thermodynamics	(2) Evaporative co	oling
	(3) Boyle's law		(4) Charle's law	
		(10	)	(Continued)

54.	2.1	e following fruit, gro is one of the largest fo		
	(1) Coconut	(2) Mango	(3) Cashew	(4) Banana
55.	Site of protein sy	nthesis in a cell is		
	(1) Ribosomes		(2) Endoplasmic re	ticulum
	(3) Chloroplasts		(4) Mitochondria	
56.	Who discovered	X-ray first?		
	(1) Wilson	(2) Roentgen	(3) Benzer	(4) Muller
57.	Aflatoxins are pro	oduced by		
	(1) Yeast	(2) Bacteria	(3) Molds	(4) Nematodes
58.	Pungency in onio	on is due to the presen	nce of	
	(1) Allyl propyl	disulphide	(2) Diallyl disulphi	de
	(3) Isothiocynato	e	(4) Capsaicin	
59.	Which of the fol	lowing is not a bio-pe	esticide?	
	(1) Bioneem	(2) Biolep	(3) Dipel	(4) Carbaryl
		(11	)	(Turn Over)

				having anti-fungal
60.	Which of the following is a phenolic factor present in onion having anti-fur properties?			maving and range
	(1) Quercetin		(2) Catechol	
	(3) Sinigrin		(4) Allyl propyl dis	ulphide
61.	Major pest of pot	tato during storage is		
	(1) Cut worms		(2) Aphids	
	(3) Jassids		(4) Potato tuber mo	oth
62.	Which vitamin is	called coagulating vi	tamim?	
	(1) Vitamin A	(2) Vitamin E	(3) Vitamin K	(4) Vitamin C
63.	The pest which a	ttack the pulses both	n fields and at storag	e
	(1) Pulse beetle		(2) Gram pod borer	•
	(3) Red gram poo	d fly	(4) Pod borer	
64.	Which of the foll	owing cannot synthe	size protein by own e	nzymes?
	(1) Bacteria		(2) Mycoplasma	
	(3) RLO		(4) Virus	
55.	Mad cow disease	is caused by		
	(1) Virion	(2) Prion	(3) Bacteria	(4) MLO
		(2)		

(12)

66.	Which one of the following cannot be detected by ELISA technique?				
	(1) Virus	(2) Bacteria	(3) Viroid	(4) Fungus	
67.	The strongest bon	d is			
	(1) Ionic bond		(2) Covalent bond		
	(3) Hydrogen bor	nd	(4) van der Waals		
68.	Latent heat of fus	sion (ice to water) is			
	(1) 540 cal	(2) 620 cal	(3) 80 cal	(4) 40 cal	
69.	Which of the foll	owing is deficient in	rice grain?	538	
	(1) Lysine	(2) Glycine	(3) Isoleucine	(4) Alanine	
70.	Wavelength of vi	sible light is			
	(1) 260-350 nm	(2) 360-760 nm	(3) 390-700 nm	(4) 400-700 nm	
71.	Most dangerous	gas for depletion of	ozone layer is		
	(1) Chlorine	(2) CFC	(3) Benzene	(4) CO <sub>2</sub>	
72.	Among the follo	wing which has antio	xidant property		
	(1) Quinones	(2) Tocopherols	(3) Phenols	(4) Sorbitols	
		7.1	2)	(Turn Over)	

73.	The end product of glycolysis is			
	(1) Glucose	(2) Sucrose	(3) Pyruvic acid	(4) NADH
74.	Krebs cycle prod	uces theoritical yield	of	
	(1) 18ATP	(2) 38 ATP	(3) 32 ATP	(4) 36 ATP
75.	Cellulose is a po	lymer of		
	(1) β-D Glucose		(2) $\alpha$ -D Glucose	
	(3) β-L Fructose	2	(4) a -D Galactose	
76.	Greenhouse gas	for global warming is		
	(1) O <sub>2</sub>	(2) CH <sub>4</sub>	(3) SO <sub>2</sub>	(4) CO <sub>2</sub>
77.	Unit of pressure	in SI system is		
	(1) Atmosphere		(2) Dynes per squa	are cm
	(3) Pascal		(4) mm of mercury	7 *
78.	Coconut fat is a	rich source of		
	(1) Palmitic acid	ı	(2) Stearic acid	
	(3) Lauric acid		(4) Ricinoleic acid	Í

(14)

79.	Temperature of LTLT pasteurization of milk is			
	(1) 61-63 °C	(2) 42-49 °C	(3) 62-65 °C	(4) 51-65 ℃
80.	Rickets is caused	d due to the deficienc	y of	
	(1) Vitamin C	(2) Vitamin D	(3) Vitamin A	(4) Vitamin B <sub>12</sub>
91.	Egg shell is mad	e up of		
	(1) Ca (OH) <sub>2</sub>	(2) Ca <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub>	(3) CaCO <sub>3</sub>	(4) CaO
82.	Quality of egg ca	n be judged by		
	(1) Candling	(2) Annealing	(3) Temperature te	st (4)pH
83.	Yellow color of	egg is due to		
	(1) Carotene	(2) Anthocyanin	(3) Vitamin B	(4) Xanthphyll
84.	. Hormone required for milk secretion is			
	(1) Oxytocin	(2) ACH	(3) Prolactin	(4) TSH
85.	. Crude fibre content in roughage is approximately			
	(1) 18- 20 %	(2) 30- 32 %	(3) 25- 27 %	(4) 35- 37 %
86.	Enzyme coagula	nted milk product is		
	(1) Paneer	(2) Dahi	(3) Cheese	(4) Chhana
		(1	5)	(Turn Over)

87.	pH of fresh buffa	alo milk is		
	(1) 4.6	(2) 5.6	(3) 6.6	(4) 7.6
88.	Which of the fol milk?	llowing vitamins rem	ains most resistant o	on heat treatment of
	(1) Vitamin A	(2) Vitamin C	(3) Vitamin B <sub>1</sub>	(4) Vitamin B <sub>12</sub>
89.	Estrogen, proges	sterone and relaxin ho	ormones are secreted	from
	(1) Ovary	(2) Adrenal	(3) Pituitary	(4) Thyroid
90.	Hormone secrete	ed from pancreas that	lowers down blood s	sugar levels is
	(1) Glucagon	(2) Insulin	(3) Epinephrine	(4) Relaxin
91.	Out of the total b	ody calcium, bone an	d teeth have	
	(1) 79 %	(2) 89 %	(3) 95 %	(4) 99 %
92.	Which one of the	following, is not a b	acterial disease?	
	(1) Rinderpest		(2) Haemorrhagic s	septicaemia
	(3) Anthrax		(4) Black quarter	
93.	Surface adherence	ce of gas, liquids or so	olids onto a solid is k	nown as
	(1) Absorption	(2) Sorption	(3) Adsorption	(4) Adhesion
		(16	)	(Continued)

		(17)	(Turn Over)
	(3) Humidity	(4) Water activity	
	(1) Relative humidity	(2) Absolute humi	idity
98.	The ratio of the vapour pressure pure water is	of water in a solution to th	ne vapour pressure of
	(3) Freeze concentration	(4) Freeze drying	ja ***
	(1) Freezing	(2) Chilling	
97.	Food processing method that co liquid phase is called	onverts ice to vapour withou	out going through the
	(3) Peroxidation	(4) Deamination	
	(1) Caramelization	(2) Maillard react	tion
96.	Nonenzymatic browning reaction acid on a protein is known as	ons involving a reducing su	ngars and a free amino
	(1) Maltodextrin (2) Glucose	(3) Amylose	(4) Amylopectin
95.	Which of the following is a st stimulate fat in emulsions?	arch hydrolysis derivative	e that may be used to
	(1) Viscosity (2) Syneresis	s (3) Surface tension	on (4) Evaporation
94.	Water loss from a cooked, coo	led gel due to excessive re	etrogradation is called

99.	Resistance to flow	v of a liquid when sh	near force is applied i	s called	
	(1) Viscosity		(2) Surface tension	n	
	(3) Elasticity		(4) Turbulence		
100	100. A high molecular weight methylated galacturonic acid polymer which is insoluble in water and found in immature fruits is				
	(1) Pectin	(2) Pectinic acid	(3) Pectic acid	(4) Protopectin	
101	101. Process of adding back a nutrient to make up the loss during processing is called				
	(1) Enrichment		(2) Restoration		
	(3) Fortification		(4) Supplementati	on	
102	102. Wheat flour that is aged naturally or by chemical agents to improve baking properties of dough known as				
	(1) Matured flou	ır	(2) Bleached flou	r	
	(3) Hard flour		(4) Organic flour		
103. The name given to a proposed new regulatory category of food components that may be considered a food or a part of a food and may supply medical or health transfits including the treatment or prevention of diseases					
	(1) Pharmaceuti	cals	(2) Specialty food	ls.	
	(3) Nutraceutica	ıls	(4) Drug		
		(1	8)	(Continued)	

(Turn Over)

104	104. Pressure exerted by water filled vacuoles on the cytoplasm and the partially elastic cell wall is called		
	(1) Vapour pressure	(2) Cell pressure	
	(3) High pressure	(4) Turgor pressure	
105. Movement of solute across a permeable membrane from an area of gre- concentration to lesser concentration in heated products that do not have intact cell membrane is called			
	(1) Permeation	(2) Osmosis	
	(3) Diffusion	(4) Ultrafiltration	
106	106. Changes in conformation of proteins caused by changes in temperature, pH or ionic strength, or by surface changes is called		
	(1) Denaturation	(2) Deamination	
	(3) Decarboxylation	(4) Autooxidation	
107.	107. Characteristic of the molecule that enables it to perform a specific role in a food is known as		
	(1) Functional property	(2) Colligative property	
	(3) Special property	(4) Nutritional property	

(19)

charged group within the molecule?  (1) Anion (2) Cation (3) Bi ion (4) Zwitter ion  109. Post mortem state 6 - 24 hrs after slaughter in which muscle stiffe and become less extensible and there is loss of ATP is called  (i) Scalding (2) Post rigor  (3) Rigor mortis (4) Pre rigor  110. Material that allows two ordinarily immiscible substances to mix is called  (1) Chelate (2) Emulsifier (3) Stabilizer (4) Sequestrant  111. Heating of food materials for specific time that eliminates pathogens is called  (1) Sterilization (2) Pasteurization  (3) Blanching (4) Upperization  112. The increase in volume of ice cream over the volume of ice cream mix is due the  (1) Incorporation of emulsifier (2) Incorporation of fat  (3) Incorporation of milk solids (4) Incorporation of air					
109. Post mortem state 6 - 24 hrs after slaughter in which muscle stiffe and become less extensible and there is loss of ATP is called  (1) Scalding (2) Post rigor (3) Rigor mortis (4) Pre rigor  110. Material that allows two ordinarily immiscible substances to mix is called (1) Chelate (2) Emulsifier (3) Stabilizer (4) Sequestrant  111. Heating of food materials for specific time that eliminates pathogens is called (1) Sterilization (2) Pasteurization (3) Blanching (4) Upperization  112. The increase in volume of ice cream over the volume of ice cream mix is due the (1) Incorporation of emulsifier (2) Incorporation of fat (3) Incorporation of milk solids (4) Incorporation of air	108	108. Which of the following contains a positively charged group and a negatively charged group within the molecule?			
and become less extensible and there is loss of ATP is called  (1) Scalding (2) Post rigor (3) Rigor mortis (4) Pre rigor  110. Material that allows two ordinarily immiscible substances to mix is called (1) Chelate (2) Emulsifier (3) Stabilizer (4) Sequestrant  111. Heating of food materials for specific time that eliminates pathogens is called (1) Sterilization (2) Pasteurization (3) Blanching (4) Upperization  112. The increase in volume of ice cream over the volume of ice cream mix is due the (1) Incorporation of emulsifier (2) Incorporation of fat (3) Incorporation of milk solids (4) Incorporation of air		(i) Anion	(2) Cation	(3) Bi ion	(4) Zwitter ion
(3) Rigor mortis (4) Pre rigor  110. Material that allows two ordinarily immiscible substances to mix is called  (1) Chelate (2) Emulsifier (3) Stabilizer (4) Sequestrant  111. Heating of food materials for specific time that eliminates pathogens is called  (1) Sterilization (2) Pasteurization  (3) Blanching (4) Upperization  112. The increase in volume of ice cream over the volume of ice cream mix is due the  (1) Incorporation of emulsifier (2) Incorporation of fat  (3) Incorporation of milk solids (4) Incorporation of air	199. Post mortem state 6 - 24 hrs after slaughter in which muscle stiffens and become less extensible and there is loss of ATP is called				
(1) Chelate (2) Emulsifier (3) Stabilizer (4) Sequestrant  111. Heating of food materials for specific time that eliminates pathogens is called  (1) Sterilization (2) Pasteurization  (3) Blanching (4) Upperization  112. The increase in volume of ice cream over the volume of ice cream mix is due the  (1) Incorporation of emulsifier (2) Incorporation of fat  (3) Incorporation of milk solids (4) Incorporation of air		(1) Scalding		(2) Post rigor	
(1) Chelate (2) Emulsifier (3) Stabilizer (4) Sequestrant  111. Heating of food materials for specific time that eliminates pathogens is calle (1) Sterilization (2) Pasteurization (3) Blanching (4) Upperization  112. The increase in volume of ice cream over the volume of ice cream mix is due the (1) Incorporation of emulsifier (2) Incorporation of fat (3) Incorporation of milk solids (4) Incorporation of air		(3) Rigor mortis		(4) Pre rigor	
111. Heating of food materials for specific time that eliminates pathogens is called  (1) Sterilization  (2) Pasteurization  (3) Blanching  (4) Upperization  112. The increase in volume of ice cream over the volume of ice cream mix is due the  (1) Incorporation of emulsifier  (2) Incorporation of fat  (3) Incorporation of milk solids  (4) Incorporation of air	110. Material that allows two ordinarily immiscible substances to mix is called				
(1) Sterilization (2) Pasteurization (3) Blanching (4) Upperization  112. The increase in volume of ice cream over the volume of ice cream mix is due the (1) Incorporation of emulsifier (2) Incorporation of fat (3) Incorporation of milk solids (4) Incorporation of air	27	(1) Chelate	(2) Emulsifier	(3) Stabilizer	(4) Sequestrant
(3) Blanching (4) Upperization  112. The increase in volume of ice cream over the volume of ice cream mix is due the  (1) Incorporation of emulsifier (2) Incorporation of fat  (3) Incorporation of milk solids (4) Incorporation of air	111.	Heating of food r	naterials for specific	time that eliminates	pathogens is called
<ul> <li>112. The increase in volume of ice cream over the volume of ice cream mix is due the</li> <li>(1) Incorporation of emulsifier</li> <li>(2) Incorporation of fat</li> <li>(3) Incorporation of milk solids</li> <li>(4) Incorporation of air</li> </ul>		(1) Sterilization		(2) Pasteurization	
(1) Incorporation of emulsifier (2) Incorporation of fat (3) Incorporation of milk solids (4) Incorporation of air		(3) Blanching		(4) Upperization	
(3) Incorporation of milk solids (4) Incorporation of air	112.		olume of ice cream ov	er the volume of ice	cream mix is due to
		(1) Incorporation	of emulsifier	(2) Incorporation o	f fat
		(3) Incorporation	of milk solids	(4) Incorporation o	fair
113. Sweetened condensed milk contains sugar	113. Sweetened condensed milk contains sugar				
(1) 40- 45 % (2) 30- 35 % (3) 20- 25 % (4) 10- 15 %		(1) 40- 45 %	(2) 30- 35 %	(3) 20- 25 %	(4) 10- 15 %

114. A lipid containing two fatty acids and a phosphoric acid group esterified to glycerol and choline as the N group is called			
(1) Diglyceride	(2) Glycolipid	(3) Lecithin	(4) Cephalin
115. A compound that prevents, delays or minimizes the rancidity of oils by donating a H atom to the double bond in a fatty acid is known as			
(1) Autooxidation	n	(2) Free radical	
(3) Antioxidant		(4) Peroxide	
116. The process of formation of equal amounts of glucose and fructose from sucrose by acid and heat, or enzymes is called			
(1) Inversion		(2) Isomerization	
(3) Hydrolysis		(4) Fractionation	
117. The process of mixing dough into a uniform mass by folding, pressing and stretching is called			
(1) Kneading	(2) Baking	(3) Beating	(4) Leavening
118. Mild heat treatment that inactivates enzymes that would cause deterioration of food during frozen storage is known as			
(1) Stewing	(2) Blanching	(3) Drying	(4) Roasting
	Č	(21)	(Turn Over)

119. A method in which continuous it rapidly and maintaining quali	electrical current is passed through food to heat ity is called
(1) Microwave cooking	(2) Irradiation
(3) Ohmic heating	(4) Sonication
120. A method for addition of nutric tions specified by the standards	ents in a food to achieve established concentra- s of identity
(1) Fortification	(2) Restoration
(3) Enrichment	(4) Supplementation

# ROUGH WORK एक कार्य

1

<del>-</del>

13

## अध्यक्षियों के लिए निर्देश

## (इस पुस्तिका के प्रथम आवरण पृष्ठ पर तथा उत्तर-पत्र के दोनों पृष्ठों पर केवल नीली/काली वाल-प्याइंट पेन से ही लिखें)

- ः हार इतिका मिलने के 30 मिनर के अन्दर ही देख में कि प्रश्नपत्र में सभी एए मंजूद हैं और बोई उस सूटा तहों है । पृश्चिका रोधयन एप्टे जारे पर इसकी सूचना तत्काल कक्ष-निरोक्षक को देकर सम्पूर्ण प्रश्नपत्र की उसके एप्टेंगका साम वर में ।
- े वर्षात सकत में **प्रदेश-पत्र के अतिरिक्त, लिखा वर सादा कोई** भी खुला कार कार्य में महिली ह
- ओ.एम.आर. उत्तर-४४ अताय से दिया गया है। इसे न तो मोई और न ही विकृत करें। दूसरा ओ.एम.आर. उत्तर-पत नहीं दिया जायेगा। केवल ओ.एम.आर. उत्तर-पत्र का ही यूल्यांकर किया जायेगा।
- ल्यो प्रविष्टियौ प्रथम आवरण-पृष्ठ पर नीली/लाली पेर से निधारित स्थान पर जिस्हें ।
- 5. शो.एम.आर. राष्ट्र-८४ के प्रथम पृष्ठ पर पेन से अपना अनुक्रमांक निर्धारित स्थान पर लिखें तथा नीचे दिये वृत्तों को एक यह है। जहाँ - जहाँ आवश्यक हो वहाँ प्रश्न-पुस्तिका का क्रमांक, केन्द्र कोड नम्बर तथा संस् का नम्बर उचित नगरों पर निर्दें।
- े. और एम अप उत्तर-एवं पर अनुक्रमांच गाँउमा, प्राप्त-पृक्षिका संख्या व रोट संख्या (यदि कोई हो) तथा प्राप्त-पुस्तिका या अनुक्रमांख गाँख्या और और एम अप उत्तर-पत्र संख्या की प्राविष्टियों में उपस्थिखन की अनुमति सुने हैं।
- े इपर्युक्त प्रवि**ष्टियों में कोई भी परिवर्तन कक्ष निरीक्षक द्वा**रा ग्रामणित होना स्माहिते अन्यक्षा यह एक अनुधित नाभग का प्राचीम **मा**ना लागेपा |
- ं प्रश्न-दुस्तिका में एत्येक प्रश्न **के चार वैकल्पिक उत्तर दिये** गये हैं। प्रत्येक प्रश्न के वैकल्पिक उत्तर के लिये आपको ओ.एम**,आर. उत्तर-पत्र की सम्बन्धित पंक्ति के** सामने दिये गये बुन को उत्तर-पत्र के पथ्य पृष्ठ एर दिये गये निर्देशों के अनुसार गेन से गांदा करना है।
- 9. प्रत्येक प्रथन के उत्तर के लिए केवल एक ही पृत्त को गाड़ा करें । एक से अधिक वृत्तों को गाड़ा करने पर अधवा एक वल को अधुर्ण भरने पर वह उत्तर गलत माना जायेगा ।
- (1) व्यान में कि एक बार क्याहा हुारा अंकित उत्तर बदला नहीं जा सकता है। यदि अगा किसी प्रश्न का उत्तर जी होना पाहते हैं, तो सम्वन्धित पंक्ति के सामने दिये गएं अगी नामों को मान्त्री खोड़ हैं। ऐसे प्रश्नों पर मुख्य जब दिये बावेंगे।
- ा एक कार्य के लिए प्राप्त-पुन्तिका **के मुखपृष्ठ के अ**नदा बानत पृष्ठ तथा उपल-पुल्लका के आतम पृष्ट का प्रयोग वर्ष
- े परीक्षा की समापि के बाद अकार्थी अपना ओ.एक-आर. उत्तर-पत्र परीक्षा कक्ष/हाल व करा ितेक्क को साँप है। अभ्ययों अपने साथ परन पुस्तिका दथा औ.एफ.जार. उत्तर-पत्र की पति हा जा एकते हैं।
- 🕮 अध्यारों को परीक्षा समाप होने से पहले परीक्षा भवन से लाहर जाने की अहुपति नहीं होगी !
- ं विस्तृति अध्यश्री परीक्षा में अमृचित साधनों का प्रयोग करता है, तो यह विस्तृतिशासक द्वारा निर्वारिक दुउ का कि आगे होगा/होगी ।