

This booklet consists of **100** questions and **12** printed pages.

RGUCET/\_\_\_\_/\_\_\_\_

Series

NIL
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**RGUCET 2023**  
**Masters in FOOD TECHNOLOGY**

**Full Marks: 100**

**Time: 2 Hours**

Roll No.

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Day and Date of Examination :

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Signature of Invigilator(s) :

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Signature of Candidate :

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*General Instructions:*

***PLEASE READ ALL THE INSTRUCTIONS CAREFULLY BEFORE MAKING ANY ENTRY.***

1. DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE TOLD TO DO SO.
2. Candidate must write his/her Roll Number on the space provided.
3. This Test Booklet contains 100 Multiple Choice Questions (MCQs). Each question carries 1 mark. There shall be negative marking of 0.25 against each wrong attempt.
4. Please check the Test Booklet to verify that the total pages and total number of questions contained in the test booklet are the same as those printed on the top of the first page. Also check whether the questions are in sequential order or not.
5. Candidates are not permitted to enter into the examination hall 15 minutes after the commencement of the entrance test or leave the examination hall before 30 minutes of end of examination.
6. Making any identification mark in the OMR Answer Sheet or writing Roll Number anywhere other than the specified places will lead to disqualification of the candidate.
7. Candidates shall maintain silence inside and outside the examination hall. If candidate(s) is/are found violating the instructions mentioned herein or announced in the examination hall, they will be summarily disqualified from the entrance test.
8. In case of any dispute, the decision of the Entrance Test Committee, RGU shall be final and binding.
9. The OMR Answer Sheet consists of two copies, the Original copy and the Student's copy.

1	The process of cutting down a tree is called as				a	Felling
	a) Felling	b)Cutting	c)Pulling	d)Disforestation		
2	The spectators _____ settle before the door closes				a	Must
	a)Must	b) Shall	c) Might	d) Can		
3	What is the antonym of “INSULAR”?				d	Liberal
	a) Terrestrial	b) Earthly	c) Narrow	d) Liberal		
4	Choose the correct synonyms of “convalesce”				c	recuperate
	a) relapse	b) denounce	c) recuperate	d) recreate		
5	She is ..... LLB student and is aiming to pursue further education in abroad.				b	an
	a) a	b) an	c) the	d) no article		
6	She told me that she ..... watching the movie.				c	Had finished
	a) is finished	b) was finished	c) had finished	d) not finished		
7	The Central Rice Research Station is situated in?				a	Cuttack
	a) Cuttack	b) Kolkata	c) Chennai	d) Bangalore		
8	Prof. Amartya Sen received the Nobel Prize in which field				d	Economics
	a) Chemistry	b) Peace	c) Literature	d) Economics		
9	The first woman to reach the summit of Mount Everest was				b	Junko Tabei
	a) Marie Jose Perc	b) Junko Tabei	c) Florence Griffith Joyner	d) Jackie Joyner Kersee		
10	The unit of measurement of a word length is				c	Bit
	a) Millimetre	b) Micrometre	c) Bit	d) Byte		
11	Father of Artificial Intelligence				a	John McCarthy
	a)John McCarthy	b)Allan Turning	c)Charles Babbage	d)None of the above		

12	The highest point in Arunachal Pradesh is				b	Kangto
	a) Tawang	b) Kangto	c) Namcha Barwa	d) Dhauligiri		
13	The sum of first 101 positive natural numbers is				d	5151
	a) 5055	b) 5050	c) 4141	d) 5151		
14	A book cannot exist without its pages, likewise a guitar cannot exist without				a	Strings
	a) Strings	b) Music	c) Band	d) Plectrum		
15	Anger: Provocation :: Fear: .....				d	Threat
	a) Compulsion	b) Force	c) Excitement	d) Threat		
16	Clock : Time :: Anemometer: .....				a	Speed
	a) Temperature	b) Speed	c) Distance	d) Humidity		
17	Which of the following number is the largest among all? 0.9, 0. $\bar{9}$ , 0.0 $\bar{9}$ , 0. $\overline{09}$				c	0. $\bar{9}$
	a) 0. $\overline{09}$	b) 0.0 $\bar{9}$	c) 0. $\bar{9}$	d) 0.9		
18	Find the solution of $\frac{8 \sin 72^\circ}{\cos 18^\circ} - \frac{6 \sec 42^\circ}{\operatorname{cosec} 48^\circ}$				a	2
	a) 2	b) 3	c) 4	d) 5		
19	What will be the solution of $\sqrt{(0.65)^2 - (0.16)^2}$				c	0.63
	a) 0.53	b) 0.56	c) 0.63	d) 0.66		
20	Running at a speed of 54 km/hour, a train passed through a 1.6 km long tunnel in 3 minutes, what is the length of the train?				c	1100 m
	a) 550 m	b) 850 m	c) 1100 m	d) 1300 m		
21	Which Indian state was the first to implement the Panchayati Raj System?				b	Rajasthan
	a) Panjab	b) Rajasthan	c) Gujarat	d) Maharashtra		
22	The international forum of G-20 was established in				c	1999

	a)2020	b ) 2000	c)1999	d)1985		
23	Current captain of Indian Women' Cricket team is				d	Harmanpreet Kaur
	a) Mithali Raj	b) Safali Verma	c) Smiriti Mandana	d) Harmanpreet Kaur		
24	The most valuable currency of the world currently is				c	Kuwaiti Dinar
	a)Dollar	b)Pound	c)Kuwaiti Dinar	d)Swiss Francs		
25	Currently, the Minister of External Affairs of India is				a	Dr. Subramaniam Jaishankar
	a) Dr. Subramaniam Jaishankar	b) Salman Khurshid	C Meenakshi Lekhi	d)Vijay Kumar Singh		
26	Unit for stress is				a	Dyne/cm <sup>2</sup>
	a) Dyne/cm <sup>2</sup>	b) N/m	c) Pa.s	d) Dimensionless		
27	Foam stabilization in beer is attributed to				b	Proteins from barley
	a) Caramelized sugars	b)Proteins from barley	c)Yeast	d)Hops		
28	Temperature of a system decreases in which of the following cases				b	Adiabatic expansion
	a) Adiabatic compression	b) Adiabatic expansion	c) Isothermal compression	d)Isothermal expansion		
29	What is the absolute zero temperature				b	0 K
	a) 32 F	b) 0 K	c) -450.67° F	d) -270 K		
30	2 kilocalorie is equal to				b	8368 Joule
	a) 8.368 Joule	b) 8368 Joule	c) 43.68 Joule	d) 836.68 Joule		
31	For a fluid flowing in a pipe under turbulent flow, the Reynold's number will be				c	3500-4500
	a) 2000	b)1500-2000	c) 3500-4500	d) 1500		
32	Ionic bonds are formed due to				a	Transfer of

	a) Transfer of electron	b) Sharing of electrons	c) Vander Waals force	d) Hydrogen bonding		electron
33	Which of the following compounds is the odd one out				a	NaCl
	a) NaCl	b) CH <sub>4</sub>	c) C <sub>2</sub> H <sub>2</sub>	d) CH <sub>2</sub> O		
34	Which of the following is dimensionless				c	Strain
	a) Young's modulus	b) Stress	c) Strain	d) Gas constant		
35	A 100 ppm solution is equivalent to				c	100mg/1000ml
	a) 100 mg/ml	b) 100mg/100ml	c) 100mg/1000ml	d) 1mg/100ml		
36	Father of microbiology is				b	Antonie Van Leeuwenhoek
	a) Robert Koch	b) Antonie Van Leeuwenhoek	c) Louis Pasteur	d) Edward Jenner		
37	The structure of Purines in genetic material consist of				a	Double ring
	a) Double ring	b) Single ring	c) Straight Chain	d) Polymeric		
38	During Gram staining , gram negative bacteria retains the color of				c	Crystal Violet
	a) Safranin	b) Iodine	c) Crystal Violet	d) Methyl blue		
39	Which of the following is not a reducing sugar				a	Sucrose
	a) Sucrose	b) Maltitol	c) Maltose	d) Ribose		
40	Which of the following is a gram positive bacteria				d	<i>Pseudomonas aeruginosa</i>
	a) <i>Salmonella thyphimurium</i>	b) <i>Escherichia coli</i>	c) <i>Listeria monocytogenes</i>	d) <i>Pseudomonas aeruginosa</i>		
41	Number of types of RNA is				b	3
	a) 2	b) 3	c) 1	d) 5		
42	Which of the following is not the property of genetic code				c	Code is non-polar
	a) Code is triplet	b) Code is degenerate	c) Code is non-polar	d) Code is non-ambiguous		

43	Mycotoxins are produced by				b	Fungi
	a) Bacteria	b) Fungi	c) Algae	d) Bryophytes		
44	On analysing milk, the protein content is observed to be abnormally high. The possible adulterant may be				c	Urea
	a) Rice starch	b) Formalin	c) Urea	d) Potato starch		
45	"White Revolution" is related to which commodity				b	Milk
	a) Salt	b) Milk	c) Sugar	d) Rice		
46	Suppose in foods having significant amount of thiamine which of the following preservative is not to be used				b	Potassium Metabisulphites
	a) Sorbic acid	b) Potassium Metabisulphites	c) Benzoic acid	d) Acetic acid		
47	Non-enzymatic browning is due to heating of				c	Sugar and Protein
	a) PPO and PO	b) Protein	c) Sugar and Protein	d) Fats		
48	Growing plants in cooperation with fishes is known as				c	Aquaponics
	a) Aquaculture	b) Hydroponics	c) Aquaponics	d) Hydroculture		
49	Vitamin A deficiency causes				b	Night blindness
	a) Cataract	b) Night blindness	c) Rickets	d) Beri-beri		
50	Which of the following is not a sporicide				d	Isopropyl alcohol
	a) Formaldehyde	b) Glutaraldehyde	c) Ethylene oxide	d) Isopropyl alcohol		
51	The first step in PCR technique is				b	Denaturation
	a) Annealing	b) Denaturation	c) Extension	d) Amplification		
52	Inactive precursors of enzymes are termed as				c	Zymogens
	a) Apoenzymes	b) Vitamins	c) Zymogens	d) Co-enzymes		

53	Enzymes are polymers of				d	Amino acids
	a) Sugars	b) Fats	c) Polysaccharides	d) amino acids		
54	Which of the following is important for thyroid health				d	Iodine
	a) Cobalt	b) Iron	c) Calcium	d) Iodine		
55	RDA stands for				b	Recommended Dietary allowances
	a) Regulatory Dietary Advisor	b) Recommended Dietary allowances	c) Required Dietary Allowances	d) Regular Dietary Allowances		
56	Antimicrobial agent in saliva is				c	Lysozyme
	a) Ptyalin	b) Opiorphin	c) Lysozyme	d) Water		
57	To achieve 100% bioavailability for a drug is one can employ which of the following routes:				c	Intravenous
	a) Oral	b) Topical	c) Intravenous	d) Rectal		
58	Which of the following is not an intrinsic parameter for involved in microbial growth				d	Humidity
	a) Oxidation reduction potential	b) pH	c) Moisture	d) Humidity		
59	If a microbes utilizes only a single carbon source the growth follows a _____ curve				a	Logarithmic
	a) Logarithmic	b) Diauxic	c) Asynchronous	d) Straight line		
60	Which of the following product is not fermented microbially :				b	Tea
	a) Cracker variety of biscuits	b) Tea	c) Wine	d) Beer		
61	Which of the following method is followed to obtain estimated for crude protein content in a food sample				d	Kjeldahl method
	a) Soxlet	b) Lea method	c) Lowry's	d) Kjeldahl		

	method		Method	method		
62	Beer acquires a bitter taste due to				b	Hops
	a) Caramel	b) Hops	c) Malt	d) Simple sugars		
63	The correct protein content value in soybean chunks is				b	40-55%
	a) 10-20%	b) 40-55%	c) 20-30%	d) 55-60%		
64	The enzyme ficin is				c	Proteolytic
	a) Cellulolytic	b) Pectolytic	c) Proteolytic	d) Lipolytic		
65	Most abundant carbohydrate				d	Cellulose
	a) Glucose	b) Sucrose	c) Starch	d) Cellulose		
66	Agar is obtained from				a	Red algae
	a) Red algae	b) Green algae	c) Brown algae	d) blue-green algae		
67	Dutch Process is carried out in which of the following products				d	Chocolate
	a) Tea	b) Coffee	c) Sugar	d) Chocolate		
68	Chemical score of egg protein is				d	100
	a) 10	b) 90	c) 70	d) 100		
69	Father of canning				b	Nicolas Appert
	a) Louis Pasteur	b) Nicolas Appert	c) Bryan Appert	d) John hall		
70	Which of the following is not a milk product				d	Tofu
	a) Curd	b) Kefir	c) Koumiss	d) Tofu		
71	Fats and sugars group mainly provide.....to the body.				c	Energy
	a) strength	b) satiety	c) energy	d) growth		
72	Which vitamin is not fat soluble?				b	Vitamin C
	a) Vitamin A	b) Vitamin C	c) Vitamin E	d) Vitamin K		
73	Which of the following calorimeters does not use the indirect					



	calorimetry principle?					
	a) Bomb Calorimeter	b) Benedict's oxy calorimeter	c) Benedict - Roth respiration calorimeter	d) Douglas bag calorimeter	a	Bomb Calorimeter
74	Food spoilage related to white cottony appearance on food products is due to .....					
	a) bacteria	b) moulds	c) yeast	d) fungi	b	moulds
75	At what temperature and time combination, milk is pasteurized under High Temperature Short Time (HTST)?					
	a) 71.2 & 15 sec	b) 71.7 °C & 15 sec	c) 71.2 °C & 30 sec	d) 71.7 °C & 30 sec	b	71.7 °C & 15 sec
76	Which of the following is not a class II preservative?					
	a) Benzoic acid	b) Sorbic acid	c) Vinegar	d) Propionic acid	c	Vinegar
77	Which of the following Class II preservative is used in meat and meat products?					
	a) Sodium benzoate	b) Sodium metabisulfite	c) Sodium propionate	d) Sodium nitrate	d	Sodium nitrate
78	Nicholas Appert is known as the father of .....					
	a) fermentation	b) boiling	c) canning	d) freezing	c	Canning
79	..... pigments are responsible for the red, purple, or blue colour of fruits.					
	a) Carotenoids	b) Anthocyanins	c) Anthoxanthins	d) Chlorophyll	b	Anthocyanins
80	When vegetables are cut and exposed to air, tannin is converted to melanin by.....enzyme.					
	a) Melanin	b) Phenolase	c) Rennin	d) Pectinase	b	Phenolase
81	In which of the following processes is moist heat supplied to starch?					
	a) Dextrinization	b) Gelatinization	c) Fermentation	d) Drying	b	Gelatinization

82	Camellia sinensis is the botanical name of ..... plant.				a	Tea
	a) Tea	b) Coffee	c) Cocoa	d) Saffron		
83	Which of the following gas is used for artificial ripening of fruit?				d	Ethylene
	a) Acetylene	b) Methane	c) Ethane	d) Ethylene		
84	What is the chemical name for 'baking soda'?				d	Sodium bicarbonate
	a) Sodium nitrate	b) Sodium nitrite	c) Sodium carbonate	d) Sodium bicarbonate		
85	Sour taste of 'Coca Cola' is due to the presence of				d	phosphoric acid
	a) Formic acid	b) Acetic acid	c) Hydrochloric acid	d) Phosphoric acid		
86	An emulsion is a colloid of a				a	liquid in a liquid
	a) liquid in a liquid	b) liquid in a gas	c) gas in a liquid	d) gas in a solid		
87	Glass is a				c	supercooled liquid
	a) Superheated solid	b) superheated liquid	c) supercooled liquid	d) supercooled gas		
88	Which of the following is used for refrigeration?				b	Freon
	a) Chlorine	b) Freon	c) Phosphine	d) Sulphur dioxide		
89	The colour of cow's milk is slightly yellow due to the presence of				c	Carotene
	a) Riboflavin	b) Ribulose	c) Carotene	d) Xanthophyll		
90	The noble gas used for the treatment of cancer is				d	Radon
	a) Argon	b) Helium	c) Krypton	d) Radon		
91	Iodine solution is used to test the presence of				b	starch
	a) Sugar	b) Starch	c) Fats	d) Protein		
92	The velocity of heat radiation in vacuum is				c	Equal to that of light
	a) Less than	b) Greater than	c) Equal to that	d) Equal to		

	that of light	that of light	of light	that of sound		
93	The instrument that measures the relative humidity of air is				b	Hygrometer
	a) Hydrometer	b) Hygrometer	c) Barometer	d) Lactometer		
94	Angle of friction and angle of repose are				b	equal to each other
	a) Not equal to each other	b) Equal to each other	c) Proportional to each other	d) No relation between them		
95	Heat stored in water vapour is .....				d	latent heat
	a) absolute heat	b) relative heat	c) specific heat	d) latent heat		
96	Which of the following is the intrinsic factor for the microbial growth?				c	Water activity
	a) Oxygen	b) Temperature	c) Water activity	d) Packaging		
97	The D-value is indicated by				a	minutes
	a) minutes	b) log number	c) degree centigrade	d) degree Fahrenheit		
98	Hops are used in the manufacture of				a	Beer
	a) Beer	b) Brandy	c) whiskey	d) Wine		
99	For the laminar flow the Reynold's number should be less than				c	4100
	a) 2100	b) 3100	c) 4100	d) 5100		
100	Heat flow by conduction is governed by ..... law				a	Fourier's
	a) Fourier's	b) Newton's	c) Stefan's	d) Boltzman's		

**SPACE FOR ROUGH WORK**