									Test Boo	klet No	
This bookle	et con	sists	of <u>1(</u>	<u>00</u> qu	estic	ons ar	nd 12	2 prir	ited pages.		
RGUPET/_	/_	_		P	h.D.			ET 2	023 CHNOLOG	Series Y	NIL
Full Mark	s: 100	0									Time: 3 Hours
Roll No.											
Day and Date	e of Ex	amin	ation	:							
Signature of	Invigil	ator(s)	:							
Signature of	Candio	date		:							

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) from the concerned subject. Each question carries 1 mark.
- 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	Descriptive res	search includes				
	a)Surveys	b)Solution	c)Abstract	d)Quantitative		Surveys
	and fact	for a	idea	measurements	а	and fact
	finding	problem				finding
2	Which of the f	following is not	the measure of c	entral tendency?	С	Standar d deviatio n
	a) Mean	b) Median	c) Standard deviation	d) Mode		
3	ANOCOVA full	form is			С	
	a) Analysis of	b)Analysis of	c)Analysis of	d)Analysis of		Analysis
	correlation	coexistence	covariance	coefficients		of
						covarian ce
4	Median divide	s the data set ir	nto			
	a) 2 equal	b)3 equal	c) 4 equal	d) 5 equal parts		2 equal
	parts	parts	parts		а	parts
5	Concept are	of Re	esearch			
	a) guide	b) tools	c) methods	d) variables	b	tools
6	Concept repres	sents various de	gree of			
	a)	b)	c) Abstraction	d) Specification		Abstract
	Formulation	Calculation			c	ion
7	Analogies are	the sources of		1		
	a) Data	b) Concept	c) Research	d) Hypothesis	d	Hypothe sis
8	A Hypothesis	which develops	while planning t	he research is		
	a) Null Hypothesis	b) Working Hypothesis	c) Relational Hypothesis	d) Descriptive Hypothesis	b	Working Hypothe sis
			ำ			

9	How to judge	the depth of any	research?				
	a) By research objectives	b) By research duration	c) By total expenditure on research	d) By research title	a	By research objectiv es	
10	The first step of	of research is:					
	a) Finding a problem	b) Selecting a problem	c) Searching a problem				
	The conclusion	ns/findings of w	rhich type of rese	arch cannot be			
11	generalized to	other situations	?				
	a) Historical Research	b) Casual Comparative Research	c) Descriptive Research	d) Experimental Research	a	Historic al Researc h	
	_	and displaying	raw data in a con	npact form is known		Tabulati	
12	as a) Bar	b) charts	c) Tabulation	d) graph	c	on	
	,	of "skewness" is	<i>′</i>	u) grapii		Lack of	
13	a)Leptokurti	b)Bi-variate population	c) Lack of symmetry	d) Covariance	c	symmetr	
	The process of known as	f assigning num	erals or other syn	abols to answer is	a	Coding	
14	a) Coding	b) Editing	c) Tabulation	d) Data cleaning	-		
	The average of the series	f difference of the	he value of items	from some average of	ь	Mean deviatio	
15	a)Standard deviation	b)Mean deviation	c)Median	d)Range		n	
	The collection is called	a	Populati on				
16	a)Population	b)Variables	1				
17	The chi-square						

	a) A mean	b) A multiquestion tes	ts	c) A statistical mistake	d) A statistic	d	A statistic
18	Primary data	can be collected	from:	1	l		
	a) Survey	b) Internet		c) New pape	er d) Reports	a	Survey
19	Which research something occ	_	deter	mine the frequ	nency with which		
	a) exploratory	b) diagnosti	С	c) descriptiv	d) Analytical	ь	diagnost ic
20	Student rankin	ng from high to l	ow is	an example of	which scale?		
	a) Nominal Scale	b) Ordinal S	b) Ordinal Scale c) Interval d) Ratio Scale Scale				
21	Which among	nich among the following is not a measure of central tendency?					
	a) Range	b) Mean		c) Median	d) Mode	a	Range
22		is a proce		•	collected raw data	d	Editing
	a) Data adjusting	b) Questionnaire checking	c) C	lassification	d) Editing		
23	_	people who have studied is called	-		rience with		
	a) Experimenta 1 survey	b) Experience survey	c) In	sight survey	d) In-depth Survey	ь	Experien ce survey
24	The number of items to be selected from the universe to constitute a sample						Size of sample
	a) Population	b) Sampling units	c) Si	ze of sample	d) Control		
25	The size of sample should be						
	a) Large	b) Small	c) O	ptimum	d) Meagre		Optimu m

a) Pie Chart b) Column Chart c) Line Chart d) Dot Graph b Column Chart 27 A complete list of all the sampling units is called: a) Sampling design b) Sampling c) Population frame b Sampling grame 28 Which of the following is not the method of Research? a) Survey b) Historical c) Observation d) Philosophical c observation d) Philosophical of the following qualities a) Flexibility b) Comparability Appropriateness a Flexibility d) Measurability Comparability Appropriateness 30 Which of the following methods is used in empirical researches? a) Inductive b) Deductive c) Initiative method d c method d c method method method d c method method method d c method method method corrections analysis analysis analysis analysis analysis analysis analysis d) Hypothesis b) Groups c) Proportion d) Variable c Proportion d) Treatment b) Group c) Dependent variable depends upon or is a consequences of another variable then it is called a) Treatment b) Group c) Dependent variable d) Independent variable d) Indepen	26	What type of cl	hart is useful for c	comparing values	over categories?					
a) Sampling design b) Sampling frame c) Population frame b Sampling grame 28 Which of the following is not the method of Research? a) Survey b) Historical c) Observation d) Philosophical c Observation of the following qualities a) Flexibility b) Comparability Appropriateness a Flexibility which of the following methods is used in empirical researches? a) Inductive method b) Deductive method method d d Scientific method which type of analysis studies the functional relationship between two or more existing variables? a) Comparability d) Scientific method d d method d d method which type of analysis studies the functional relationship between two or more existing variables? a) Comparability d) Scientific method d d method d d method d d method d d method which type of analysis studies the functional relationship between two or more existing variables? a) Comparability d) Scientific method d d d d d d d d d d d d d d d d d d		a) Pie Chart		c) Line Chart	d) Dot Graph	b				
design frame frame b grame 28 Which of the following is not the method of Research? a) Survey b) Historical c) Observation d) Philosophical c Observation of the following qualities A satisfactory statistical quantitative method should not possess one of the following qualities a) Flexibility b) Measurability Comparability Appropriateness 30 Which of the following methods is used in empirical researches? a) Inductive b) Deductive method method do Scientific method method do c method Which type of analysis studies the functional relationship between two or more existing variables? a) correlation b) regression analysis analysis analysis analysis analysis analysis do analysis analysis analysis analysis do analysis analysis analysis do do analysis do do analysis do	27	A complete list	of all the sampling	ng units is called:						
a) Survey b) Historical c) Observation d) Philosophical c A satisfactory statistical quantitative method should not possess one of the following qualities a) Flexibility b) Comparability Appropriateness a) Flexibility b) Measurability Comparability Appropriateness a) Which of the following methods is used in empirical researches? a) Inductive b) Deductive e) Initiative method d d comparability method d d comparability or method d d comparability or method d d d d d d d d d d d d d d d d d d					d) Cluster	b	-			
A satisfactory statistical quantitative method should not possess one of the following qualities a) Flexibility b) C) Comparability Appropriateness a Flexibility ty 30 Which of the following methods is used in empirical researches? a) Inductive b) Deductive c) Initiative method d C method d C method method method d Measurability method d Dependent method meth	28	Which of the fo	ollowing is not the	e method of Resea	rch?					
29 of the following qualities a) Flexibility b) Comparability Appropriateness a Flexibility Tomparability Appropriateness a Flexibility Tomparability Appropriateness a Flexibility Tomparability Tomparability Tomparability Tomparability Appropriateness a Flexibility Tomparability Tomparabi		a) Survey	b) Historical	c) Observation	d) Philosophical	С				
a) Flexibility b) Measurability c) Comparability Appropriateness a Flexibility ty 30 Which of the following methods is used in empirical researches? a) Inductive b) Deductive c) Initiative method d Scientific method d c method method d c method 31 Which type of analysis studies the functional relationship between two or more existing variables? a) correlation b) regression c) casual analysis d) Wariable c Proportion d) Variable c Proportion d) Treatment b) Group c) Dependent variable d Dependent variable Depe			A satisfactory statistical quantitative method should not possess one							
Measurability Comparability Appropriateness a ty	29	of the following	g qualities							
a) Inductive method b) Deductive method method d comethod method method d comethod d com		a) Flexibility		,	,	a				
method method method d c method Which type of analysis studies the functional relationship between two or more existing variables? a) correlation analysis b) regression c) casual analysis analysis analysis 32is a measure of attributes. a) Hypothesis b) Groups c) Proportion d) Variable c Proportion 33 If one variable depends upon or is a consequences of another variable then it is called a) Treatment b) Group c) Dependent variable d) Independent variable nt variable	30	Which of the fo	ollowing methods	is used in empirio	cal researches?					
two or more existing variables? a) correlation analysis b) regression c) casual d) inferential analysis analysis analysis analysis 32		,			,	d	c			
a) correlation analysis c) casual d) inferential analysis b n analysis 32is a measure of attributes. a) Hypothesis b) Groups c) Proportion d) Variable c Proportion on If one variable depends upon or is a consequences of another variable then it is called a) Treatment b) Group c) Dependent variable variable nt variable	31			ne functional relati	ionship between		regressio			
a) Hypothesis b) Groups c) Proportion d) Variable c Proportion 33 If one variable depends upon or is a consequences of another variable then it is called a) Treatment b) Group c) Dependent variable variable nt variable		/	'	,	,	ь	n			
If one variable depends upon or is a consequences of another variable then it is called a) Treatment b) Group c) Dependent variable variable nt variable	32		is a measure	of attributes.						
then it is called a) Treatment b) Group c) Dependent variable c) Dependent variable d Depende nt variable		a) Hypothesis	b) Groups	c) Proportion	d) Variable	С				
variable variable nt variable	33		of another variable	d						
34 Which one of the following is a method of field research?		a) Treatment	b) Group	/ 1			nt			
	34	Which one of the	Which one of the following is a method of field research?							

	a) Opinionnaire	b) Play analysis	c) Analysis of documents	d) Analysis of historical records	a	Opinion naire
35	Ex post facto re	esearch is a		,	С	Descript ive research
	a) Analytical research	b) Applied research	c) Descriptive research	d) Conceptual research		
36	Gathering know	wledge for the kno	wledge's sake is ca	alled		
	a) Fundamental Knowledge	a	Fundam ental Knowle dge			
37	inexpensive to	a	Structur e question naires			
	a) Structure questionnaire s	b) Unstructured questionnaire	c) General form	d) Question sequence		
38	Which one is n	ot an example of h	nypothesis testing?			
	a) Chi-square test	b) t-test	c) f-test	d) Q-test	d	Q-test
39	Manipulation is	s always a part of				
	a) Historical research	b) Descriptive research	Fundamental research	d) Experimental research	b	Descript ive research
40	The word "data					
	a) Detum	b) Datum	c) Datam	d) Detem	b	Datum
41	41 Information in the research is:					
	a) Raw Data	b) Processed Data	c) Input Data	d) Organized Data	d	Organiz ed Data

42	In Excel, which through E5	In Excel, which of the following function denotes a range from B1 through E5							
	a) B1 - E5	b) B1:E5	c) B 1 to E5	d) B1\$E5	_ b	B1:E5			
	The principal co	mponent technique	is a very popula	rly used for		Factor study			
43	a) Variable study	b) Factor study	c) Size study	d) Logical study	ь				
	Oral presentation	n is effective when	supplemented by	various	d	Visual devices			
44	a)Sample	_ u							
	Discriminant and	alysis is used to pre	dict			Group			
45	a)Individual	b)Group membership	c)Population	d)Control	ь	member ship			
	The researcher n writing final dra	_ a	Technic al jargon						
46	a)Technical jargon	b) Concise writing	c) Simple d) Tabulation language		_ a				
		ways typed in e another by double	•	e though they are	ь	Single space			
47	a)Double space	b)Single space	c) 1.5 space	d) 2.5 space					
	Outline of techn	ical report should c	ontent	1		Summar			
48	a)Summary of results	b)Questionnaire	c)Raw data	d)Case study	a	y of results			
	Which is not a co	ommon citation sty	le in scientific w	riting	1	PLA			
49	a) APA	b) MLA	c)Chicago	d)PLA	d				
50		As glycogen supplies are depleted, ATP regeneration stops, and the actin and myosin remain locked in a permanent contraction							
	a) Rigor mortis	b) Thawing	c) Stunning	d) Filleting	a	Rigor mortis			
51	Bromelain enzyr tenderization	Bromelain enzymes extracted fromis used for meat renderization							

	a) Pineapple	b) Orange	c) Guava	d) sugarcane	a	Pineappl e		
52	National Meat a	and Poultry Process	sing Board (NMPPB) is located in				
	a) Chennai	b) Mumbai	c) Kolkata	d) New Delhi	d	New Delhi		
53	In Europe, one of found to contain	of the food scandal n	s advertised spicy l	beef were	С			
	a) Duck meat	b) Buffalo meat	c) Horse meat	d) Kangaroo meat		Horse meat		
54	Bacon is made f	rom			b			
	a) Beef	b) Pork	c) Chevon	d) Poultry		Pork		
55	The color of egg	The color of egg yolks due to the presence of						
	a) Xanthophylls	b) Livetin	c) Sodium	d) Calcium	а	Xanthop hylls		
56	One gram of car	bohydrate contains			а	4 kcal		
	a) 4 kcal	b) 6 kcal	c) 9 kcal	d) 8 kcal				
57	Cell Powerhous	se is			b			
	a)Nucleus	b)Mitochondria	c)Endoplasmic Reticulum	d)Golgi body		Mitocho ndria		
58	Enzyme which	break down the car	bohydrate in mouth	1		Salivary amylase		
	a) Lactase	b) Protease	c) Salivary amylase	d) Hydrolase	С			
59	Cereal is deficie	Cereal is deficient in						
	a) Phenylalan ine	b) Valine	c) Lysine	d) Methioni ne	С	Lysine		
60	Toads skin defic	ciency is due to			а	Vitamin		

	a) Vitamin A	b) Vitamin C	c) Vitamin E	d) Vitamin		А
61	Spoilage in can	ned meat is due to t	he presence of			
	a) Escherichia	b) Clostridium	c) Pseudomona	d) Salmonel	b	Clostridi um
62	Milk pasteuriza	tion at 62.8°C for 30	min to eliminate	I.		
	a) Coxiella burnetti	b) Listeria monocytogen s	c) Callus cereus	d) Salmonel la Thyphim uriun	a	Coxiella burnetti
63	Black rot is seen	n in			b	egg
	a) Meat	b) Egg	c) Milk	d) Bread	D	_ C88
64	Baker's yeast	1	l			6 /
	a) Saccharom yces bulgaricus	b) Saccharomyc es cerevisae	c) Saccharomyc es carlsbergensi s	d) Candida albicans	b	Sacchar omyces cerevisa e
65	Fermented	beverage "Ale " is a	<u> </u>	I.		
	a) Type of whiskey	b) Type of wine	c) type of beer	d) type of juice	С	Type of beer
66	Feni is a liquor	originated from		1		
	a) Madhya Pradesh	b) Punjab	c) Goa	d) Arunach al Pradesh	С	Goa
67	Unit of specific	gravity	1	I		

	a) g/cm ³	b) kg/cm ³		c)	kg/m³		d) g/m ³	С	kg/m³
68	Atmo	isture content, c	onsta	nt p	eriods ends	and	falling rate	а	Critical
	a) critical	b) specific		c)	EMC		d) Initial		
69	Perfect black	body absorptivit	y is e	quals	s to				
	a) 1	b) 2		c) 3	3		d) 4	а	1
70	SI Unit of pre	I Unit of pressure							
	a)Poise	e b) Centipoise c) Pascal d) Pas- sec						d	Pascal
71		hen hot and cold fluid flow in opposite direction in a heat changer than flow is called						С	Counter-
	a) Parallel	b) Co-currer	nt	c)	Counter- current		d) Laminar		current
72	Which of the	following is invo	olved	in m	aillard react	ion	?		
	a) Reducing sugar	b) Non reducing sugar	c) R suga		rsible		Non versible sugar	a	Reducin g sugar
73	Which of the milk?	following compo	onents	dis _l	olay anti-mi	crob	pial activity in		
	a) Beta- lactoglobuli n	b) Lactoferrin	c) Gly	coma	acropeptid	d)	MFG protein	b	Lactofer rin
74	Acetaldehyde	e is the major flav	ourin	g co	mpound in	<u> </u>			
	a) Dahi	b) Yoghurt	c) C	hees	se	d)	Koumiss	ь	Yoghurt
75	National Insti	National Institute of Nutrition is located in							
	a) Hyderabad	b) Bombay	c) N	lew]	Delhi	d)	Kanpur	a	Hyderab ad

76	Triple point t	emperature of wa	nter is					
	a) 0.1 °C	b) 0.01 °C	c) 0 °C	d) 1 °C	b	0.01 °C		
77	Minimum %	total soluble soli	ds in orange nectar i	is				
	a) 25%	b) 30%	c) 15%	d) 40%	c	15%		
78	CSIR institut at	e dedicated to res	search on all aspects	of food is located				
	a) Mysore	b) Hyderabad	c) Nagpur	d) Calcutta	a	Mysore		
79	Optimum pH	value for jelly is						
	a) 3.0	b) 3.2	c) 3.4	d) 3.6	b	3.2		
80	Glycerol mor	Glycerol monostearate is commonly used as a						
	a) Stabiliser	b) Preservative	c) Emulsifier	d) Anti-oxidant	c	Emulsifi er		
81	Radappertiza	tion means						
	a) Radiation	b) Radiation	c) Radiation	d) Radiation		Radiatio		
	sterilization	pasteurization	ionization	decontamination	a	n sterilizat ion		
82	Fishes are no	t preserved by						
	a) Drying	b) Salting	c) Canning	d) Vacuum		Vacuum		
				packaging	d	packagin g		
83	Which of the	following enzym	nes are used in coffe	e bean fermentation				
	a) Hydrolases	b) Proteases	c) Takadiastase	d) Pectinases	d	Pectinas es		
84	Which of the	Which of the following has maximum biological value						
	a) Egg	b) Milk	c) Meat	d) Red gram	a	Egg		
85	Baking powd	Baking powder is a compound of						
					1			

	a) Sodium bicarbonate s and tartrates	b) Sodium bicarbonate and corn starch	c) Corn starch and tartrates	d) Sodium citrate and tartrates	a	Sodium bicarbon ates and tartrates
86	Saponins are	found in				
	a) Soyabean	b) Faba bean	c) Kidney bean	d) Broad bean	a	Soyabea n
87	High pectin c	ontent in jam cau	ises			
	a) Crystallizati on	b) Premature setting	c) Gummy jam	d) Surface graining	ь	Prematu re setting
88	Shaffer-Somo	ogyi micro metho	d is used for estimation	on of		
	a) Sugar	b) Citric acid	c) Total soluble solid	d) Ascorbic acid	a	Sugar
89	Maximum %	of oil is found in				
	a) Ground nut	b) Mustard	c) Linseed	d) Coconut	d	Coconut
90	After homoge	enization the size	of fat globules should	d be		
	a) < 2 micron	b) 4 micron	c) >2-4 micron	d) 0.4 micron	a	<2 micron
91	FDA is terme	d as	I			
	a) Fruit and Drug Administrat ion	b) Food and Drug Administratio n	c) Fruit and Dietary Allowance	d) Foundation of Drug Administration	b	Food and Drug Adminis tration
92	Bakery produ	cts are commonly	y packed in			
	a) LDPE pouches	b) HDPE pouches	c) Cellophane pouches	d) Aluminum foil laminates	a	LDPE pouches

93	Hygrometer is used to measure in air					
	a) Moisture	b) Nitrogen	c) Hydrogen	d) Oxygen	a	Moisture
94	Actin is present in					
	a) Wheat	b) Meat	c) Milk	d) Rice	ь	Meat
95	Anthocyanins are soluble					
	a) Water	b) Fat	c) Organic solvent	d) Alcohol	a	Water
96	Aseptic packaging is used in					
	a) Food	b) Food	c) Food	d) Food		Food
	Pasteurizati on	intoxification	sanitization	sterilization	a	sterilizat ion
97	Natural enzymes present in fruit that hydrolyze pectin is					
	a) Pectin methyl esterase	b) Pectin ethyl esterase	c) Pectin methyl peroxidase	d) Pectin ethyl peroxidase	a	Pectin methyl esterase
	The process of heat treatment to inactivate the natural browning					
98	enzyme of vegetables or fruits is called					
	a) Scalding	b) Pasteurization	c) Blanching	d) Suberization	c	Blanchin g
99	The principle protein of rice is					
	a) Glutenin	b) Oryzenin	c) Zein	d) Gliadin	b	Oryzeni n
100	Richest source of Vitamin C is					
	a) Gauva	b) Barbedos Cherry	c) Lichi	d) Pine Apple	ь	Barbedo s Cherry

SPACE FOR ROUGH WORK