

Test Booklet No. _____

This booklet consists of 100 questions and 12 printed pages.

RGUPET/____/____

Series

NIL

**RGUPET 2023
PH.D. IN GEOGRAPHY**

Full Marks: 100

Time: 3 Hours

Roll No.

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Day and Date of Examination : _____
Signature of Invigilator(s) : _____
Signature of Candidate : _____

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	Choose the correct synonym for abundant				c	plentiful
	a) Scarce	b) limited	c) plentiful	d) sparse		
2	Select the correct form. "ITV last night"				d	watched
	a) watch	b) watching	c) watches	d) watched		
3	Identify the correct plural form of 'child':				c	children
	a) childs	b) childes	c) children	d) child's		
4	I..... to the store yesterday.				c	went
	a) go	b) goes	c) went	d) gone		
5	What is the major attribute of Correlation Analysis?				a	Association among variables
	a) Association among variables	b) Difference among variables	c) Regression among variables	d) variation among variables		
6	What is the name of the conceptual framework in which the research is carried out?				d	research design
	a) Research hypothesis	b) synopsis of research	c) Research paradigm	d) research design		
7	What does the longitudinal research approach actually deal with?				c	long term research
	a) horizontal research	b) short term research	c) long term research	d) vertical research		
8	Which one is called non-probability sampling?				a	Quota sampling
	a) Quota sampling	b) Cluster sampling	c) Systematic sampling	d) random sampling		

9	MIRI and MRS is associated with which space agency?				b	NASA
	a) ISRO	b) NASA	c) JAXA	d) CERN		

10	The term “et al.” is the abbreviated form of the Latin term -				B	et alia
	a)et ala	b)et alia	c)et alium	d)et alea		
11	Who proposed the g-index as an improvement over h-index?				A	Leo Egghe
	a)Leo Egghe	b)J.E. Hirsch	c)Eugene Garfield	d)H. G. Wells		
12	Who introduced chi-square test (symbolically represented as χ^2)?				D	Karl Pearson
	a)Francis Galton	b)R. A. Fisher	c)Spearman	d)Karl Pearson		
13	Piper, Andrew. "Rethinking the Print Object: Goethe and the Book of Everything." <i>PMLA</i> , vol. 121, no. 1, 2006, pp. 124-38.Which of the following format is used in this reference?				C	MLA
	a)Chicago	b)Harvard	c)MLA	d)APA		
14	A good synopsis is considered to be -				B	A half-way research
	a) A beginning of research	b) A half-way research	c) A complete research	d) A partial research		
15	A subscription journal in which some of the articles are open access is called -				A	a hybrid open-access
	a) a hybrid open-access	b) a gold open-access	c) a diamond open-access	d) a green open-access		
1	Which of the following is a characteristic of qualitative research?				C	Unique case

6					orientation	
	a) Standardized tests and measures	b) Random sampling	c) Unique case orientation	d) Generalization to the population		
17	What is Paraphrasing?				D	Putting information, I read into my own words
	a) Saying whatever I want after reading	b) Copying the text	c) A proofing activity	d) Putting information, I read into my own words		
18	The independent or predictor variable is also known as -				B	Explanatory variable
	a) Explorative variable	b) Explanatory variable	c) External variable	d) Experimental variable		
19	At 40 minutes past 2 o'clock, the hands of a clock are inclined at -				B	160 degrees
	a) 140 degrees	b) 160 degrees	c) 170 degrees	d) 180 degrees		
20	A person who hates women is called -				C	Misogynist
	a) Misologist	b) Misandrist	c) Misogynist	d) Misogamist		
21	Which of the following is NOT a step of the scientific method?				B	Count items
	a) Problem	b) Count items	c) Hypothesis	d) Draw conclusions		

2 2	Which of the following is a method of qualitative research?				C	Ethno methodology
	a) Ex-post factor research	b) Normative survey	c) Ethno methodology	d) Experimental research		
2 3	Which of the following explains about an item's tendency to cluster?				D	Range
	a) Regression	b) Correlation	c) Variance	d) Range		
2 4	A variable that is presumed to cause a change in another variable is known as -				A	Intervening variable
	a) Intervening variable	b) Dependent variable	c) Independent variable	d) Response variable		
2 5	The simplest form of measurement is -				C	Nominal
	a) Ratio	b) Interval	c) Nominal	d) Ordinal		
2 6	What is the full abbreviation of GLM?				B	General Linear Model
	a) General Logic Model	b) General Linear Model	c) General Line Model	d) General Lab Model		
2 7	Which of the following is non-probability sampling?				D	Snowball
	a) Cluster	b)	c) Random	d) Snowball		

		Stratified				
28	Who is considered as the father of geographic information system?				B	Roger Tomlinson
	a) Ian McHarg	b) Roger Tomlinson	c) John Snow	d) Jack Dangermond		
29	An empirical model that calculates long-term average annual soil loss due to sheet and rill erosion is known as -				C	RUSLE
	a) USLE	b) ASLE	c) RUSLE	d) ASLEE		
30	A model that follows random probability distribution or pattern that may be analysed statistically but may not be predicted precisely is -				A	Stochastic
	a) Stochastic	b) Analogue	c) Mathematical	d) Simulation		
31	A logical process in which the reasoning is from general to particular is called -				B	Deduction
	a) Intuition	b) Deduction	c) Observation	d) Induction		
32	Which of the following is a primary data?				C	Newspaper
	a) Book	b) Journal	c) Newspaper	d) Census report		
33	A researcher is generally expected to -				A	generate new principles and theories.
	a) generate new principles and	b) evaluate the findings of a study.	c) study the existing literature in a field.	d) synthesize the ideas given by others.		

	theories.					
3 4	The square root of Variance is -				C	Standard Deviation
	a) Standard Error	b) Deviation Quotient	c) Standard Deviation	d) Error variance		
3 5	The identification of when and where an event took place is called -				D	Contextualization
	a) Negative criticism	b) Sourcing	c) Corroboration	d) Contextualization		
3 6	The first step in the research process is -				B	Define broad problem area
	a) Problem definition	b) Define broad problem area	c) Preliminary data collection	d) Theoretical framework		
3 7	Which type of research intensively use Quota sampling?				D	Market research
	a) Action research	b) Ethnographic research	c) Experimental research	d) Market research		
3	The most read page of a thesis is -				C	Abstract

8						
	a) Title page	b) Table of contents	c) Abstract	d) Research design		
39	A list of all works on a subject or by an author that were used or consulted to write a thesis is called -				B	Bibliography
	a) Citation	b) Bibliography	c) Heading	d) References		
40	A certificate of copyright waiver is generally given in -				C	Thesis
	a) Book	b) Chapter	c) Thesis	d) Article		
41	What is the literal meaning of Symposium?				B	Intellectual entertainment
	a) Mental recreation	b) Intellectual entertainment	c) Motivational urges	d) Urges for creativity		
42	Research report writing in a scientific manner is -				A	Global communication
	a) Global communication	b) Global standardization	c) Global awareness	d) Global welfare		
43	A scientific research paper must -				B	include parenthetical citations
	a) be as objective as possible	b) include parenthetical citations	c) be as descriptive as possible	d) include your own opinion		
44	Which of the following remains attached to a source even if the URL changes?				C	DOI

	a)Permalinks	b) http	c) DOI	d) www		
4 5	Where is the statement of problem located in a research paper?				B	last sentence of the introduction
	a)first sentence of your conclusion	b)last sentence of the introduction	c) after the title	d) after the methodology		
4 6	Shodhganga refers to -				A	a reservoir of theses
	a)a reservoir of theses	b)a river of articles	c) a river of knowledge	d)a reservoir of books		

47	A group of species that exploits the biotic and abiotic resources in the same way is called -				B	Guild
	a)Biome	b)Guild	c)Habitat	d)Niche		
48	According to Conservation International, how many Biodiversity Hotspots are there in the world?				D	36
	a) 30	b) 34	c) 35	d) 36		
49	According to D.Chattarjee(1962), India can be divided into how many phytogeographical regions?				C	9
	a) 7	b) 8	c) 9	d) 10		
50	Which layer is most developed in the grassland than in any other ecosystem?				C	Root
	a) Herbaceous	b) Ground	c) Root	d)Shrubby		
51	Which article of the Indian constitution directs the State to protect and improve the environment and safeguard wildlife and forests?				A	Article - 48A
	a) Article -	b) Article -	c) Article -	d)Article – 51A		

	48A	48B	50A			
52	Which of the following is also known as Chorographical map?				D	Atlas map
	a) Planimetric map	b) Cadastral map	c) Wall map	d) Atlas map		
53	If a map with the scale of 1/50000 is enlarged 5 times, then what is the correct scale of the enlarged map?				A	1/10000
	a) 1/10000	b) 1/150000	c) 1/2500000	d) 1/25000		
54	The line formed by the intersection of a horizontal plane and an inclined surface is known as -				C	Strike
	a) Dip	b) Azimuth	c) Strike	d) Bedding		
55	The ratio of the diameter of a circle with the same area as that of the basin to the maximum basin length is -				D	Elongation ratio
	a) Circularity ratio	b) Bifurcation ratio	c) Stream ratio	d) Elongation ratio		
56	The Rn value of 2.15 in a Nearest Neighbour Analysis represents -				B	Regular
	a) Clustered	b) Regular	c) Uniform	d) Random		
57	In which type of surveying only linear measurements are made in the field?				B	Chain surveying
	a) Compass surveying	b) Chain surveying	c) Dumpy level	d) Theodolite surveying		
58	Horizontal angle with the true Meridian through one of the extremities of the line is called?				C	True bearing
	a) Bearing	b) Magnetic	c) True	d) Arbitrary		

		bearing	bearing	bearing		
59	Closed contours with higher value inwards, represent a -				B	Hillock
	a) Plane surface	b) Hillock	c) Depression	d) Tableland		
60	The longitudinal section of the surface of bubble tube is -				C	circular
	a) elliptic	b) strait	c) circular	d) parabolic		
61	In an internal focussing type of telescope, the lens provided is -				B	concave
	a) convex	b) concave	c) plano-concave	d) plano-convex		
62	In a straight-line equation $Y = a + bX$; b is the -				B	slope
	a) X-intercept	b) slope	c) Y-intercept	d) trend		
63	Type II error refers to -				A	Accepting a wrong hypothesis
	a) Accepting a wrong hypothesis	b) Rejecting a true hypothesis	c) Rejecting a wrong hypothesis	d) Accepting a true hypothesis		
64	Who designed the Student's t-test?				C	W. S. Gosset
	a) Wald Wolfowitz	b) R. A. Fisher	c) W. S. Gosset	d) Francis Galton		
65	Which key in the keyboard can be used to view slide show?				C	F5
	a) F3	b) F4	c) F5	d) F7		
66	Which of the following TCP/IP protocol is used to transfer electronic mail from one machine to another?				A	SMTP
	a) SMTP	b) FTP	c) HTTP	d) SNMP		

67	Which type of farming is characterized by the cultivation of a single crop or livestock species over a large area?				d	Monoculture
	a) Large farming	b) extensive farming	c) intensive farming	d) Monoculture		
68	What is the main crop grown in the United States?				d	Wheat
	a) Rice	b) Corn	c) Millet	d) Wheat		
69	Which region is known as the “breadbasket” of the world?				b	North America
	a) South America	b) North America	c) Australia	d) Europe		
70	The term ‘plantation agriculture’ was originally applied specifically to the British settlements in.....				c	America
	a) India	b) Africa	c) America	d) Europe		
71	The first scientific attempt for delineation of agricultural systems was made by				a	D. Whittlesey
	a)D. Whittlesey	b) Baker	c) Weaver	d) Coppock		
72	‘Rubbish and heap’ hypothesis was suggested by				a	Hawkes
	a)Hawkes	b)Zohary	c)Symon	d)Hillman		
73	Which river is known as the “ Yellow River” of India				d	Godavari
	a) Brahmaputra	b) Ganga	c) Narmada	d) Godavari		
74	Which year is called a Great Divide in the demographic history of India?				a	1921
	a) 1921	b) 1951	c) 1971	d) 2011		
75	The zonal soil type of peninsular India belongs to.....				b	red soil
	a) black soil	b) red soil	c) older alluvium soil	d) yellow soil		
76	Indian state known as garden spice is				c	Kerala
	a) Arunachal	b)Karnataka	c) Kerala	d) Assam		

	Pradesh					
77	India is the largest World producer of					
	a) Mica	b) Bauxite	c) Gold	d) Iron Ore	a	Mica
78	Which one of the following local wind is different from the other three?					
	a) Mistral	b) Sirocco	c) Foehn	d) Khamsin	a	Mistral
79	Horse Latitude is located on					
	a) Equatorial Low Pressure belt	b) Sub-tropical high pressure belt	c) Polar high pressure belt	d) Sub-polar low pressure belt	b	Sub-tropical high pressure belt
80	Recharging of water table depends on.....					
	a) vegetation of the area	b) amount of percolation	c) amount of rainfall	d) relief of the area	d	relief of the area
81	Which one of the following gases is found in highest quantity in Exosphere?					
	a) Helium	b) Oxygen	c) Nitrogen	d) Hydrogen	d	Hydrogen
82	Cyclones are caused due to.....					
	a) low pressure	b) high pressure	c) low temperature	d) high density	a	low pressure
83	The slogan of which Five-Year Plan in India is "Faster, More Inclusive and Sustainable Growth"?					
	a) 10 th	b) 11 th	c) 12 th	d) 13 th	c	12 th
84	NITI AYOG was established on.....					
	a) 15 August 2014	b) 15 August 2015	c) 1 January 2014	d) 1 January 2015	d	1 January 2015
85	Who among the following proposed the core-periphery model of economic development?					
	a) Friedman	b) Rostow	c) Harschman	d) Perroux	a	Friedman

86	Who is regarded as the father of Regional Science?				b	W. Isard
	a) L. Lefebvre	b) W. Isard	c) H.S. Perloff	d) J.M. Cumberland		
87	Which school of thought is mainly concerned with social well being of people?				b	Welfare
	a) Possibilism	b) Welfare	c) Radical	d) Behavioural		

88	When people move from one place to another, the place they move from is called the				(a)	The Place of origin
	a)The Place of origin	b)Route of movement	c)Direction of Movement	d)Place of Destination		
89	The most important factor responsible for high density of population found in Katanga-Zambia Plateau located in Africa				(a)	Availability of copper in abundance
	a)Availability of copper in abundance	b)Availability of forests resources	c)Close social ties	d)Scenic natural beauty		
90	The population of which among the following country is greater than 1.2 billion				(a)	Both India and China
	a)USA	b)China	c)India	d)Both India and China		
91	The term crude birth rate is close in meaning to which of the following term				(b)	Fertility
	a)Mortality	b)Fertility	c)Migration	d) Population growth		
92	The world population was around 2 billion in 1930 which has rocketed to about 6 billion by 2000. Reasons for these were due to				(d)	All of these
	a)Increase in	b)decline in	c)decline in	d)All of these		

	longevity	death rate	maternal mortality rate			
93	The largest proven oil reserve of the world lies in				(a)	Venezuela
	a) Venezuela	b) Saudi Arabia	c) Iran	d) Iraq		
94	The leading producer of both rice and wheat in the world is				(a)	China
	A China	b) India	c) Russia	d) USA		
95	Where the largest sea port is situated				(a)	Shanghai
	a) Shanghai	b) Kolkata	c) Tokyo	d) none among These		
96	Which one of the following countries is credited with the establishment of Uranium city				(c)	Canada
	a) Australia	b) Russia	c) Canada	d) USA		
97	Chena cultivation is found in				(C)	Sri-Lanka
	a) Cambodia	b) Indonesia	c) Sri-Lanka	d) Philippines		

98	In the sampling of time, which of the following is not the part of the duration of observation?				b)	Steady
	a) Discrete	b) Steady	c) Sampled	d) Quantized		
99	Strike-slip faults are _____ fracture surfaces					

	a) Vertical or near vertical	b) Horizontal	c) Diagonal	d) Lateral	a)	Vertical or near vertical
100	Which of the mountains were not formed between oceanic-continental collision?					
	a) Rockies	b) Andes	c) Cascades	d) Caledonian	d)	Caledonia

SPACE FOR ROUGH WORK