Test Booklet No. _____
This booklet consists of 100 questions and 15 printed pages.

RGUCET/2024/__/_

Series NIL

RGUCET 2024
Common Entrance Test, 2024

MASTER OF ARTS (GEOGRAPHY)

Full Marks: 100   **Time: 2 Hours**

Roll No.

Day and Date of Examination: _____

Signature of Invigilator(s) _____

Signature of Candidate _____

General Instructions:

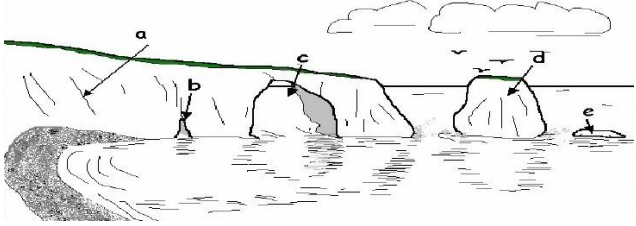***PLEASE READ ALL THE INSTRUCTIONS CAREFULLY BEFORE MAKING ANY ENTRY.***

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. 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 after the commencement of the entrance test or leave the examination hall within one hour thirty minutes.
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 candidates 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 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 answer from the given pair statement which is the most suitable reasoning: Assertion - Use of Electric vehicles are being promoted. Reasoning - Electric vehicles are more environment friendly.				
	a) R is true but A is false	b) Both A & R are true	c) A is true but R is False	d) Both A& R is true and R is the correct explanation of A	(d)
2	Choose the correct answer from the given pair statement which is the most suitable reasoning: Assertion – Forest cover in the country has gradually decreased. Reasoning – Encroachment by humans is one of the concerns for forest department.				
	a) Both A and R are true and R is the correct explanation of A	b) Both A & R are true and R is not the correct explanation of A	c) A is true but R is false	d) A is false but R is true	(a)
3	Fill up the blank with the appropriate possessive determiner from the following options. The teacher divided the sweets_____ all the children.				
	a) with	b) to	c) among	d) to	(c)
4	Mach the following words with meaning given in the column:				

A). To wonder	i). Often
B). Entertainment	ii). To meet or find somebody by chance
C). To come across	iii). To think about some thing
D). Frequently	iv). Films, movies, music, etc.

	a) A-iii, B-iv, C-ii, D-i	b) A-ii, B-i, C-iv, D-iii	c) A-iv, B-iii, C-ii, D-i	d) A-iv, B-ii, C-i, D-iii	(a)
5	Choose the indirect form of speech from the given option. We said, "We go for a walk every day."				
	a) They said that they had gone for a walk every day.	b) We said that we went for a walk every day.	c) We went for a walk every day, is what we said.	d) They said that they went for a walk every day.	(b)
6	Halley's Comet has an average orbit period of -				
	a) 46 years	b) 76 years	c) 66 years	d) 35 years	b) 76 years
7	Which one of the following countries shares the longest land frontier with India?				
	a) Bangladesh	b) China	c) Pakistan	d) Bhutan	a) Bangladesh
8	How many official scheduled languages are there in India?				
	a) 20	b) 22	c) 25	d) 23	b) 22
9	Who among the following can participate in the proceedings of both the houses of parliament in India?				
	a) Vice- President	b) Solicitor General	c) Chief Justice	d) Attorney General	d) Attorney General
10	Who is the governor of RBI?				

	a) Shaktikanta Das	b) Y.V. Reddy	c) Raghuram G. Rajan	d) Urjit Ravindra Patel	a) Shaktikanta Das
11	Which of the following crops is an example of Kharif crops?				
	a) Gram	b) Cotton	c) Pea	d) Wheat	b) Cotton
12	Where has been the Rail War Room been established by the Ministry of Railways?				
	a) Mumbai	b) Hyderabad	c) Lucknow	d) New Delhi	d
13	Match the pairs:				

A. Indira Sagar Dam	1.	Madhya Pradesh
B. Mettur Dam	2.	Tamil Nadu
C. Koyna Dam	3.	Maharashtra
D. Tehri Dam	4.	Uttarakhand

	a) 1, 2, 3 & 4	b) 2, 3, 4 & 1	c) 2, 3, 4 & 1	d) 1, 2, 4 & 3	a
14	Which state will get India's first project for pod taxis?				
	a) Assam	b) Delhi	c) Uttar Pradesh	d) Karnataka	c
15	In which sport Harshit Kumar won a gold medal at the 21st U-20 Asian Athletics Championship 2024?				
	a) Javelin Throw	b) Hammer Throw	c) Tennis	d) Chess	b
16	Match the pairs:				

A.	Input devices	1.	Radiofrequency identification readers
B.	Direct data	2.	DVD
C.	Output device	3.	Joysticks
D.	Data backup	4.	Speakers

	a) A-1, B-3, C-2, D-4	b) A-3, B-1, C-4, D-2	c) A-4, B-1, C-2, D-3	d) A-2, B-1, C-3, D-4	c
17	Look at this series: 2, 1, (1/2), (1/4), ... What number should come next?				
	a) 1/3	b) 1/8	c) 2/8	d) 1/16	b
18	Match List I and List II				

	List I		List II
A	CORPULENT	1	Dignified
B	EMBEZZLE	2	Obese
C	AUGUST	3	Accuse
D	INDICT	4	Misappropriate

Choose the correct answer from the options given below:

	a) A-2, B-3, C-1, D-4	b) A-2, B-1, C-4, D- 3	c) A-2, B-4, C-1, D- 3	d) A-3, B-4, C-1, D- 2	c
19	**Assertion (A):** Music is soothing to everybody. **Reason (R):** The rhythmic sounds stimulate the brain and produce a soothing effect. In the light of the above statements, choose the most appropriate answer from the options given below:				

a) Both A & R are correct and R is the correct explanation of A.	b) A & R are correct but R is not the correct explanation of the A.	c) A is true but R is false.	d) A is false but R is true.	d

20	**Statements**: The distance of 900 km by road between Bombay and Jafra will be reduced to 20 Km by sea. This will lead to a saving of Rs. 7.92 crores per annum on fuel. **Conclusions:** 1. Transportation by sea is cheaper than that by road. 2. Fuel must be saved to the greatest extent Which of the statements given above is/ are correct?				
	a) Only conclusion 1 follows	b) Only conclusion 2 follows	c) Either 1 or 2 follows	d) Neither 1 nor 2 follows	b

21	What is the process by which new oceanic crust is formed?				
	a) Subduction	b) Volcanic eruptions	c) Rift valley formation	d) Seafloor spreading	d) Seafloor spreading

22	What evidence supports the hypothesis of early life on Earth?				
	a) Fossil records	b) Paleomagnetism	c) Radioactive dating	d) Seismic waves	a) Fossil records

23	What geological process is responsible for the formation of mountains?				
	a) Erosion	b) Volcanic activity	c) Plate tectonics	d) Weathering	c) Plate tectonics

24	Match the following:				

	List I (Local wind)		List II (Location)	
a	Mistral	1	Russia
b	Purga	2	Central Africa
c	Harmattam	3	Argentina
d	Pampero	4	Alps region

a) (a) – 4, (b) – 1, (c)– 2, (d) - 3	b) (a) – 1, (b) – 2, (c)– 3, (d) - 4	c) (a) – 2, (b) – 3, (c)– 4, (d) - 1	d) (a) – 3, (b) – 2, (c)– 4, (d) - 1	a) (a) – 4, (b) – 1, (c)– 2, (d) - 3

25	Identify the marked portion.				

	a) Sedimentary rock	b) Glacial Till	c) Regolith	d) Block Separation	c) Regolith

26	Which of the following sequence of Heat zones is/are correctly placed? 1. Torrid Zone, South Temperate Zone and Frigid Zone. 2. Torrid Zone, North Temperate Zone and Frigid Zone. 3. South Temperate Zone, Torrid Zone and Frigid Zone. Select the correct option from the following:				
	a) 1 & 2	b) 2 & 3	c) 1 & 3	d) 1	a) 1 & 2

27	Which of these factors are responsible for variation in Insolation? a. The angle of inclination of the sun's rays b. The length of the day c. The transparency of the atmosphere Select the correct option from the following:				
	a) Only a	b) a & b	c) a, b & c	d) b & c	c) a, b & c
28	In the question given below, there are two statements marked as Assertion (A) and Reason (R). Read the statements and choose the correct option. Assertion (A): The Himalayas represent the loftiest and one of the most rugged mountain barriers of the world. Reason (R): The Himalayas are the most recent landforms. Choose the correct option from the given alternatives				
	a) Both A and R are true and R is the correct explanation of A	b) Both A and R are true but R is not the correct explanation of A	c) A is correct but R is wrong	d) A is wrong but R is correct	b)
29	The El Niño Southern Oscillation (ENSO) is a climate phenomenon primarily associated with changes in which ocean?				
	a) Indian Ocean	b) Atlantic Ocean	c) Pacific Ocean	d) Arctic Ocean	c
30	Match the pairs: <table><tr><td>A. Montreal Protocol</td><td>1. 1987</td></tr><tr><td>B. CITES</td><td>2. 1973</td></tr><tr><td>c. Stockholm Convention</td><td>3. 2001</td></tr><tr><td>d. Ramsar Convention</td><td>4. 1971</td></tr></table>				
	a) 1, 3, 2 & 4	b) 4, 3, 2 & 1	c) 1, 2, 3 & 4	d) 2, 3, 4 & 1	a
31	Consider the statement about INDIAN Ocean currents A. Somali current is warm current of Indian ocean B. Peru current is a cold current of Indian Ocean C. North Equatorial current disappears in the month of August and September. D. Somalia is a cold current of Indian Ocean. Choose the correct answer from the options given below:				
	a) A & B	b) B & C	c) C & D	d) A & D	c
32	What is the term used to describe the process by which heat is transferred from the Earth's surface				
	a) Conduction	b) Convection	c) Radiation	d) Advection	c
33	Match the following: <table><tr><td>List I (Oceans)</td><td>List II (Currents)</td></tr><tr><td>a. Atlantic</td><td>i. Monsoon Drift</td></tr><tr><td>b. Indian</td><td>ii. El – Nino</td></tr><tr><td>c. North Pacific</td><td>iii. Kuroshio</td></tr><tr><td>d. Eastern Pacific</td><td>iv. Gulf Stream</td></tr></table>				
	a) a-i, b-ii, c-iii, d-iv	b) a-iv, b-i, c-iii, d-ii	c) a-iii, b-iv, c-i, d-ii	d) a-ii, b-i, c-iii, d-iv	b) a-iv, b-i, c-iii, d-ii

34	Which among the following statements is/are correct about Atlantic Ocean? 1. The Atlantic Ocean widens to the south of equator 2. It narrows towards the equator 3. It widens in the extreme north and contacts the Arctic Ocean				
	a) Only 1	b) Only 2	c) 1 & 3	d) 1 & 2	d) 1 & 2
35	Which among the following is/are conditional for the formation of Coral Reefs? 1. The temperature of the water should be below 20°C. 2. Shallow water having a depth less than 50 meter.				
	a) Only 1	b) Only 2	c) Both 1 & 2	d) Neither 1 & 2	b) Only 2
36	Identify the coastal landforms from the given picture: 				
	a) a-Fault, b-Arch, c-Stump, d- Cave, e-Stack	b) a-Arch, b-Stump, c-Stack, d-Fault, e-Cave	c) a-Fault, b-Cave, c-Arch, d-Stack, e-Stump	d) a-Arch, b-Fault, c-Stack, d-Stump, e-Cave	c) a-fault, b-Cave, c-Arch, d-Stack, e-Stump
37	Who first gave the concept of biosphere?				Answer option
	a) Odum	b) Eduard Suess	c) Augustine	d) Edwin	**b**
38	Match the following with appropriate choices: A. Downs — i. South Africa B. Velds — ii. Argentina C. Campos — iii. Australia D. Pampas — iv. Brazil				Answer option
	a) A-iii, B-ii, C-i, D-iv	b) A-i, B-iv, C-ii, D-iii	c) A-iii, B-i, C-iv, D-ii	d) A-i, B-iii, C-ii, D-iv	**c**
39	Consider the following statements concerning the Boreal Biome. A. Vegetation primarily consists of cone-bearing needle-leaved trees. B. Tree lines flank the southernmost part of the boreal biome. C. Soils are acidic and poor in nutrients. D. Boreal forests have higher productivity than temperate forests. **Which of the statements given above is/are correct?**				Answer option
	a) A and C only	b) A and D only	c) B and C only	d) B and D only	**a**
40	The process by which earthworms break down detritus into smaller particles is called?				Answer option
	a) Humification	b) Fragmentation	c) Mineralization	d) Metabolism	**b**

41	Which of the following is/ are correct about biogeochemical cycles? A. Biogeochemical cycles are important to living organisms. B. The ozone cycle is an example of a biogeochemical cycle. C. It is a pathway by which chemical substances move to abiotic compartments. D. Biogeochemical cycles are divided into gaseous and sedimentary cycles.				Answer option
	a) A and C only	b) A and D only	c) B and C only	d) B and D only	**b**
42	Consider the following statements regarding SMOG: A. SMOG was coined in the 1950s to describe a mixture of smoke and fog. B. There are two types of smog: summer (America) and winter (London). C. The two main components of SMOG are Sulphur and Hydrogen. D. SMOG is made of particulate matter and volatile organic compounds only. **Which of the above statements is/ are correct?**				Answer option
	a) A and B only	b) A and C only	c) B and C only	d) B and D only	**a**
43	Given below are two statements: One is labeled as Assertion (A) and the other is labeled as Justification (B): A: Assertion: Water pollution can cause a series of diseases. B: Justification: A common bacteria that causes diarrhea is *E. coli*. **In the light of above statements, choose the correct answer from the options given below:**				Answer option
	a) Both A and B are true and B is the correct explanation of A	b) Both A and B are true but B is NOT the correct explanation of A	c) A is true but B is false	d) A is false but B is true	**b**
44	Which EIA tool best identifies action-effect-impact relations?				Answer option
	a)SWOT	b)Networks	c)Checklists	d)Interaction matrices	**d**
45	**Directions: -** In the following questions, the Assertions (A) and Justification(s) (B) have been put forward. Read both statements carefully and choose the correct answer from the below: **A: Assertion:** Alpine forest is found in the altitudinal range between 3400 m and 4500 m in the Himalayas. **B: Justification:** Alpine forest like no human interference				
	a) Both (A) and (B) are true and (B) is the correct explanation of (A).	b) Both (A) and (B) are true but (B) is not the correct explanation of (A).	c) (A) is true but (B) is false.	d) Both (A) and (B) are false.	b
46	The largest glacier in India, Siachen Glacier, is located in which mountain range?				

	a) Great Himalayas	b) Pir Panjal Range	c) Zanskar Range	d) Karakoram Range	d
47	The Gulf of Mannar is located between India and which island country?				
	a) Mauritius	b) Sri Lanka	a) Maldives	b) None of these	a
48	Which is the highest plateau region of India?				
	a) Deccan Plateau	b) Shillong Plateau	a) Malwa Plateau	b) Ladakh Plateau	d
49	The term '*Bhogol*' (geography) in Indian geographical literature was used for the first time in -				Answer option
	a) Vedas	b) Surya Sidhanta	c) Pancha Sidhanta	d) Aryabhata	**b**
50	Match the following with appropriate choices: A. Salmala dwipa — i. Poa-grass B. Kusa dwipa — ii. Land of horrors C. Puskara dwipa — iii. Thick cover of evergreen forests D. Saka dwipa — iv. Silk cotton tree				Answer option
	a) A-iii, B-ii, C-i, D-iv	b) A-ii, B-iv, C-iii, D-i	c) A-iv, B-i, C-ii, D-iii	d) A-i, B-iii, C-iv, D-ii	**c**
51	Consider the following statements concerning the contributions of Hecataeus. A. He predicted the solar eclipse occurred on May 28, 585 BC. B. His main book is *Ges-periodos* (description of the earth). C. He maintained that the earth is a circular plane. D. He prepared a world map of some local areas based on some scale. **Which of the statements given above is/are correct?**				Answer option
	a) A and C only	b) A and D only	c) B and C only	d) B and D only	**c**
52	Given below are two statements: One is labeled as Assertion (A) and the other is labeled as Justification (B): A: Assertion: Hipparchus devised Orthographic and Gnomonic map projections. B: Justification: He was credited for the conversion of a three-dimensional sphere into a two-dimensional plane **In the light of above statements, choose the correct answer from the options given below:**				Answer option
	a) Both A and B are true and B is the correct explanation of A	b) Both A and B are true but B is NOT the correct explanation of A	c) A is true but B is false	d) A is false but B is true	**d**
53	Which of the followingis a work of Strabo?				Answer option
	a) Historical Memoir	b) The Syntaxis	c) *Periplus*	d) *Ekumene*	**a**
54	The *Almagast* which is a popular work by Claudius Ptolemy deals with -				Answer option

	a) Latitudes and longitudes	b) Map-making	c) Mathematical geography and astronomy	d) Terra-Incognita	**b**

55	Match the following concepts of Carl Ritter with appropriate choices:				Answer option

A. Topical	i. Distribution of waterand base of human life.
B. Formal	ii. The geographical aspect of natural history.
C. Material	iii. Every naturally bounded area is a unity.
D. Unity in diversity	iv. Natural divisions of the earth's surface.

	a) A-iii, B-ii, C-i, D-iii	b) A-ii, B-iv, C-i, D-iii	c) A-iv, B-i, C-ii, D-iii	d) A-i, B-ii, C-iv, D-iii	**c**
56	Which of the following is/ are correct about the dichotomy between qualitative and quantitative geography? A. Qualitative is associated with an inductive approach whereas Quantitative is associated with a deductive approach. B. There is an epistemological divide between qualitative and quantitative approaches. C. Qualitative and quantitative approaches are not mutually exclusive; they share some common features. D. Qualitative research is subjective (bad) and Quantitative research is objective (good).				Answer option
	a) A and C only	b) A and D only	c) B and C only	d) B and D only	**a**
57	Choose the correct answer from the given pair statement which is the most suitable reasoning A: Assertion- Inshore fishing has greatly developed in China. R: Reason: Costal topography and heavy pressure of population was the cause for this.				Answer option
	a) Both A & R are correct and R explains A	b) Both A & R are correct but R does not explain A	c) A is correct but R is false	d) R is correct but A is False	Answer (c)
58	Choose the true statements from the following A) Manchuria is China's leading Industrial region B) Both coal and iron ore lie in close proximity in Manchuria C) Mukden is the main industrial cluster in Manchuria D) Manchuria has the largest petrochemical centers.				Answer option
	a) A & B are true	b) A, B & C are true	c) A & D are true	d) All of them are true	Answer (b)
59	Which of the following is not a major industrial center?				Answer option
	a) Coimbatore	b) Kolkata	c) Madurai	d) Mumbai	Answer (c)
60	Tata Iron and Steel Company (TISCO) was established by Dorabjee Tata in -				Answer option
	a) 1911	b) 1913	c) 1907	d) 1922	Answer (c)

61	Choose the correct answer from the given pair statement which is the most suitable reasoning A: Assertion- Arabs were the first to show their interest in geography because of their spatial surroundings. R: Muslim Geographers explained the formation of mountains by folding, sculpturing, erosion and weathering.				Answer option
	a) Both A & R is correct and R explains A	b) Both A & R are correct but R does not explain A	c) A is correct but R is False	d) R is correct but A is false	(b)
62	Match the following works/books with their Authors				Answer option
	A) Influence of Geographical Environment	i) Ellsworth Huntington			
	B) The Mainsprings of civilization	ii) Ratzel			
	C) Erkunde	iii) Ellen Sample			
	D) Anthropogeographic	iv) Carl Ritter			
	a) A-i, B-iv, C-ii, D-iii	b) A-ii, B-ii, C-i, D-ii	c) A-ii, B-iv, C-iii, D-i	d) A-iv, B iii. C-ii, D-i	(c)
63	Who among the following propounded the "Migration Zone Theory of Race Evolution				Answer option
	a) Huxley	b) Deniker	c) Griffith Taylor	d) Hadden	(c)
64	Choose the true statement from the following about Possibilism A) Possibilism marks the beginning of Human geography B) Beginning of Cultural Geography C) Beginning of physical Geography D) Beginning of Social Geography				Answer option
	a) A, B & C are true	b) B & C are true	c) Only A is true	d) All are true	(c)
65	The most important factor in the interaction between people and environment				Answer option
	a) Human intelligence	b) People 's perception	c) Technology	d) Human brotherhood	(c)
66	Concentric Zone Theory was propounded by -				Answer option
	a) Homer Hoyt	b) C. D. Haris	c) E. W. Burges	d) Garison	Answer (c)
67	Ethnic grouping is generally based on -				Answer option
	a) Social elements	b) Elements of Physical structure	c) Cultural Elements	d) All the above	Answer (c)
68	Choose the correct statements from the following with respect to quantitative revolution A) It focusses on areal differentiation B) It reduced geography to to space geometry C) It followed methodology of spatial science D) It helped in the development of methods of spatial structure				Answer option
	a) A & B are correct	b) B, C & D are correct	c) A, D & C are correct	d) B & D correct	(b)

69	Which of the following statements are true for vector data models in Geographical Information System? 1. It is a simple data model and has low cartographic output quality 2. It is a compact data structure and has high cartographic output quality 3. It is characterized by case of data processing 4. It is cheap data collection process as it was less expensive technology Choose the appropriate answer from the options given below:				
	a) Only 1	b) Only 2	c) Only 3	d) Only 4	b)
70	Identify the true statement/ statements from the following options: A. The range of infrared wave instruments is up to 100 km. B. Microwave instruments can be used in day as well as in night. C. Prism reflectors are used at the end of the line to be measured in infrared wave instrument. D. Lightwave instrument was first developed in Sweden and was named as Geodimeter.				
	a) A, C & D	b) Only A	c) B, C & D	d) All are true	c. B, C & D
71	Identify the sampling issues that are problematic in online surveys: 1. Many people use more than one internet service provider. 2. Every person has only one email address. 3. A household may have one computer but several users. 4. Internet users are a biased sample of the population. Choose the correct answer from the options given below:				
	a) 1, 2 & 3	b) 2, 3 & 4	c) 1, 2 & 4	d) 2 & 4	d) 2 & 4
72	Pick up the correct statement from the following: 1. The ratio of the up flux and down flux just above the snow surface is called albedo. 2. Spectral albedo of snow is calculated for the semi-finite snow thickness. 3. Water equivalent height of snow is the height of water column obtained by melting snow. 4. All of these				
	a) 1	b) 2	c) 3	d) 4	d
73	If the two regression lines are as under: $Y = a + bX$ $X = c + dY$ What is the correlation coefficient between variables X and Y?				
	a) $\sqrt{bc}$	b) $\sqrt{ac}$	c) $\sqrt{ad}$	d) $\sqrt{bd}$	d) $\sqrt{bd}$
74	Match the following: 		List I		List II
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a	Isobars	i	Lines of equal time
b	Isohels	ii	Lines of equal pressure
c	Isohalines	iii	Lines of equal salinity
d	Isochromes	iv	Lines of equal duration of sunlight					
	a) a-ii, b-iv, c-iii, d-i	b) a-iv, b-iii, c-ii, d-i	c) a-i, b-ii, c-iii, d-iv	d) a-iii, b-i, c-ii, d-iv	a) a-ii, b-iv, c-iii, d-i
75	Assertion (A): Thermal infrared energy in remote sensing is sensed by radiometers. Reasons (R): Thermal infrared can neither be seen by human eyes nor can be photographed.				

	In the light of the above statements, choose the appropriate answer from the options given below:				
	a) Both (A) and (R) are correct and (R) is the correct explanation of (A)	b) Both (A) and (R) are correct but (R) is NOT the correct explanation of (A)	c) (A) is correct but (R) is not correct	d) (A) is not correct but (R) is correct	a)
76	The maps that show the detailed physical features of a particular place are called -				
	a) Topographical map	b) Atmospheric map	c) Economic map	d) Symbolic map	a) Topographical map
77	From the list given below, identify those which are called 'Non-Probability Sampling' procedure: 1. Simple random sampling 2. Dimensional Sampling 3. Snowball sampling 4. Cluster sampling 5. Quota sampling 6. Stratified sampling				
	a) 1, 2 & 3	b) 2, 4 & 5	c) 1, 3 & 4	d) 2, 3 & 5	d) 2, 3 & 5
78	For estimating maximum value of multiple correlations, which of the following conditions should be met? I. Independent variables should correlate high with the dependent variable. II. The independent variables should correlate low with one another.				
	a) Condition I	b) Condition II	c) Both condition I and II	d) Neither condition I nor II	c) Both condition I and II
79	The mode of the following data 4, 6, 5, 9, 3, 2, 7, 7, 6, 5, 4, 9, 10, 3, 4, 7, 6, 9, 9, 10 is -				
	a) 4	b) 9	c) 20	d) 26	b) 9
80	X and Y are independent normal variables with mean 50 and 80 respectively and standard deviation as 4 and 3 respectively. What is the distribution of X + Y?				
	a) N (130, 7)	b) N (130, 3)	c) N (130, 5)	d) N (130, 4)	c) N (130, 5)
81	The mean of a distribution is 22 and the standard deviation is 10. What is the value of variance coefficient?				
	a) 45.45%	b) 35.35%	c) 25.25%	d) 55.55%	a) 45.45%
82	**Assertion (A):** The runs scored by a batsman in 5 ODIs are 31, 97, 112, 63, and 12. The standard deviation is 25.79. **Reason (R):** Mean = total sum of number of data sets / total number of data sets. In the light of the above statements, choose the most appropriate answer from the options given below: A. Both (A) and (R) are correct and (R) is the correct explanation of (A). B. Both (A) and (R) are correct but (R) is NOT the correct explanation of (A). C. (A) is correct but (R) is incorrect.				

	D. (A) is incorrect but (R) is correct.				
	a) A	b) B	c) C	d) D	b) B
83	Match List I and List II				

	List I			List II
a	Sample Statistic	1	Individual respondents, focus groups, and panels of respondents
b	Primary Data source	2	The number of accidents in a city during 2023
c	Continuous Variable	3	A numerical value used as a summary measure for a sample
d	Qualitative data	4	Data classified by attributes

Choose the correct answer from the options given below:

	a) a-3, b-1, c-2, d-4	b) a-2, b-1, c-3, d-4	c) a-1, b-2, c-3, d-4	d) a-4, b-1, c-2, d-3	a) a-3, b-1, c-2, d-4
84	The systematic arrangement of the statistical data in columns or rows is called:				
	a) Nature of the data	b) Tabulation of the data	c) Classification of the data	d) Categorisation of the data	b) Tabulation of the data
85	What is the other name for geographic coordinate system?				Answer option
	a) Latitude and Longitude System	b) Spherical Grid System	c) Rectangular Coordinate System	d) Parallel Coordinate System	**b**
86	Match the following with appropriate choices:				Answer option

A. ArcGIS	i. Netherlands
B. SuperMap	ii. United States of America
C. ILWIS	iii. India
D. IGiS	iv. China

	a) A-ii, B-i, C-iii, D-iv	b) A-i, B-ii, C-iv, D-iii	c) A-ii, B-iv, C-i, D-iii	d) A-i, B-iii, C-ii, D-iv	**c**
87	Consider the following Global Navigation Satellite System (GNSS)constellations provided by governments around the world: A. BeiDou – India B. NavIC – China C. Galileo – European Union D. QZSS – Japan **Which of the above is/ are correct?**				Answer option
	a) A and C only	b) A and D only	c) B and C only	d) C and D only	**d**
88	Given below are two statements: One is labeled as Assertion (A) and the other is labeled as Justification (B): A: Assertion: A GNSS receiver uses trilateration to calculate its location on Earth. B: Justification: The absolute position can be determined when the receiver receives signals from four (or more) satellites. **In the light of above statements, choose the correct answer from the options given below:**				Answer option
	a) Both A and B are true and B is the	b) Both A and B are true but	c) A is true but B is false	d) A is false but B is true	**a**

	correct explanation of A	B is NOT the correct explanation of A			
89	How many satellites are required in a GNSS constellation to provide 24/7 global service?				Answer option
	a) 4	b) 16	c) 24	d) 36	**c**
90	Which of the following is an example of an Active sensor in Remote Sensing?				Answer option
	a) Television Camera	b) Laser Scanner	c) Electro-optical Scanner	d) Return Beam Vidicon	**b**

91. Match the following with appropriate choices:

A. Temporal resolution	i. Detect small differences in reflected energy
B. Spectral resolution	ii. Unique revisit schedule
C. Spatial resolution	iii. Define fine wavelength intervals
D. Radiometric resolution	iv. Detect the smallest possible feature

Answer option

a) A-ii, B-i, C-iv, D-iii	b) A-iii, B-iv, C-ii, D-i	c) A-ii, B-iii, C-iv, D-i	d) A-iii, B-ii, C-i, D-iv	**c**

92. Given below are two statements: One is labeled as Assertion (A) and the other is labeled as Justification (B):

A: Assertion: A mirror stereoscope is mostly used for photo interpretation.

B: Justification: Shape, size, pattern, shadow, texture, site, etc. are vital for good photo interpretation.

In the light of above statements, choose the correct answer from the options given below:

Answer option

a) Both A and B are true and B is the correct explanation of A	b) Both A and B are true but B is NOT the correct explanation of A	c) A is true but B is false	d) A is false but B is true	**b**

93	The satellite commonly used for remote sensing and meteorology is -				Answer option
	a) Polar	b) Geosynchronous	c) Geostationary	d) Space	**a**

94. Match List I and List II

	List I		List II
a	Regression analysis	1	Display of qualitative and quantitative data
b	Bar graph	2	Type of frequency distribution
c	Histogram	3	"Case Study' method research

	d	Ethnographical Design	4	Prediction of dependent variables	
	Choose the correct answer from the options given below:				
	a) a-3, b-1, c-2, d-4	b) a-4, b-1, c-2, d-3	c) a-1, b-2, c-3, d-4	d) a-4, b-3, c-2, d-1	b) a-4, b-1, c-2, d-3
95	Which of the following is used to represent the geographical data on chorochromatic maps?				
	a) Colours	b) Lines	c) Points	d) Pictures	a) Colours
96	In which period quantitative thought became popular in geographical studies?				Answer option
	a) 1850	b) 1900	c) 1930	d) Late 1950s	Answer (d)
97	Bell metal is an alloy which is made up of				Answer option
	a) Copper and Nickel	b) Copper and tin	c) Copper and aluminum	d) Copper and Zinc	(b)
98	Human Geography, the monumental work of Vidal de La Blache was posthumously published by -				Answer option
	a) Jean Bruhnes	b) Elisee Reclus	c) A. Demangeon	d) Emmanuel de Martonne	d
99	Match the following environments proposed by Sonnenfeld (1972) with appropriate choices:				Answer option

A. Behavioural environment	i.	Impinge upon a man - aware or unaware
B. Geographical environment	ii.	Man is aware of - direct and indirect experiences
C. Perceptual environment	iii.	The real world
D. Operational environment	iv.	Extracts a behavioural response

	a) A-iv, B-iii, C-ii, D-i	b) A-iv, B-ii, C-i, D-iii	c) A-iv, B-i, C-iii, D-i	d) A-iv, B-iii, C-i, D-ii	a
100	Which of the following are examples of fuel-powered ecosystems?				Answer option
	a) Tropical rainforest	b) Deserts	c) Coastal estuary	d) Cities, Suburbs and industrial parks	d