

Test Booklet No. \_\_\_\_\_

**This booklet consists of 150 questions and 20 printed pages.**

**RGUPET/2024/\_\_\_/\_\_\_**

**RGUPET 2024  
Common Entrance Test, 2024**

**DOCTOR OF PHILOSOPHY IN GEOGRAPHY**

**Full Marks: 150  
Hours**

**Time: 3**

Roll No.

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Day and Date of Examination: \_\_\_\_\_

Signature of Invigilator(s) \_\_\_\_\_

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 150 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 after the commencement of the entrance test or leave the examination hall within two hour.
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 indirect form of speech from the given option.				
	a) That she is taking weekly medication was said by him.	b) She is taking weekly medication, he said.	c) He said that she was taking medication weekly.	d) He said that, weekly medication was being taken by her.	(c)
2	Choose the true statement from the following A). English is the most widely spoken language in the world B). English is the least Spoken Language in the world C). English is the 2 <sup>nd</sup> most spoken language in the world D). Chinese and Mandarin is the most Spoken language in the world.				
	a) A	b) B	c) C	d) D	(a)
3	Match the following phrasal verbs with meaning given in the column				
	A). Look after		i). Wear		
	B). Put on		ii). Take care of		
	C). Keep on		iii). Cancelled		
	D) Called off		iv). Continue		
	a) A-i B-ii, C- iii, D-iv	b) A-iii, B-i C-iv, D-ii	c) A-ii, B-I, C-iv, D-iii	d) A-iv, B-iii, C-ii, D-i	(c)
4	Fill up the blank with the appropriate possessive determiner from the following options. Miss, I'm sorry to say it but _____ coffee you have just served me is tepid."				
	a) those	b) that	c) this	d) these	(c)
5	Choose the word opposite in meaning to the given word: <b>Plausible</b>				
	a) implausible	b) unplausible	c) displeasible	d) inplausible	(a)
6	The Great Victoria Desert is located in -				
	a) Canada	b) West Africa	c) Australia	d) North America	c) Australia
7	The name of the Laccadive, Minicoy and Amindivi islands was changed to Lakshadweep by an Act of Parliament in the year -				
	a) 1970	b) 1971	c) 1972	d) 1973	d) 1973
8	Match List I and List II				
	<b>List I (River)</b>		<b>List II (Origin)</b>		
	A	Narmada	1	Vindhyan Range	
	B	Godavari	2	Amarkantak	
	C	Chambal	3	Tso-Lhamo lake	
	D	Teesta	4	Western Ghat	
	Choose the correct answer from the options given below:				
	a) A-4, B-2, C-3, D-1	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) A-2, B-4, C-1, D-3
9	Which of the following provisions of the Constitution of India is/ are related to the launch of the National Social Assistance Programme by the Government of India? 1. Fundamental Rights. 2. Fundamental Duties. 3. Directive Principles of State Policy.				
	a) Only 1	b) Only 3	c) 1 & 3	d) 1, 2 & 3	b
10	What is Blue Carbon? A. Carbon captured by oceans and coastal ecosystems. B. Carbon sequestered in forest biomass and agricultural soils.				

	C. Carbon contained in petroleum and natural gas. D. Carbon present in atmosphere.																					
	a) A	b) B	c) C	d) D	a																	
11	Which nation has elected Jose Raul Mulino as its new president?																					
	a) Panama	b) Guatemala	c) Nicaragua	d) Cuba	a																	
12	Recently, a new laptop has been created that is lighter, smaller, and consumes less energy than earlier laptop models. Which technological tool has been employed to make this happen?																					
	a) Faster Random Access Memory	b) Blu Ray Drive	c) Solid State Hard Drive	d) Universal Serial Bus Mouse	c																	
13	Over the last century, the estimated rise of global sea level is by 10 to 25 cm or more. This is attributed to which of the following? A. Thermal contraction of ocean water. B. Melting of glaciers and small ice cap. C. Thinning of the Greenland ice sheet. D. Changes in terrestrial water storage. Choose the correct answer from the options given below.																					
	a) A, B & C	b) A, C & D	c) B & C	d) B, C & D	d																	
14	Which country launched Hangor-class submarines?																					
	a) China	b) Russia	c) U.S.A	d) Iran	a																	
15	Which of the following are the demerits of globalization of higher education? A. Exposure to global curriculum B. Promotion of elitism in education C. Commoditization of higher education D. Increase in the cost of education  Select the correct answer from the codes given below :																					
	a) A & D	b) A, C & D	c) B, C & D	d) A, B & D	c																	
16	Two bus tickets from city A to B and three tickets from city A to C cost Rs. 77 but three tickets from city A to B and two tickets from city A to C cost Rs. 73. What are the fares for cities B and C from A?																					
	a) Rs. 4, Rs. 23	b) Rs. 13, Rs. 17	c) Rs. 15, Rs. 14	d) Rs. 17, Rs. 13	b																	
17	Match List I and List II																					
	<table border="1"> <thead> <tr> <th>List I</th> <th>List II</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>DIVA:OPERA</td> </tr> <tr> <td>B</td> <td>GRAIN:SALT</td> </tr> <tr> <td>C</td> <td>THRUST:SPEAR</td> </tr> <tr> <td>D</td> <td>PAIN:SEDATIVE</td> </tr> </tbody> </table>		List I	List II	A	DIVA:OPERA	B	GRAIN:SALT	C	THRUST:SPEAR	D	PAIN:SEDATIVE	<table border="1"> <tbody> <tr> <td>1</td> <td>chip:glass</td> </tr> <tr> <td>2</td> <td>fence:eppee</td> </tr> <tr> <td>3</td> <td>grief:consolation</td> </tr> <tr> <td>4</td> <td>thespian:play</td> </tr> </tbody> </table>		1	chip:glass	2	fence:eppee	3	grief:consolation	4	thespian:play
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18	<b>Assertion:</b> Dogs are easily one of the most social creatures on earth <b>Reasoning:</b> Dogs have been artificially bred from wolves over several generations. 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	b) A & R are correct but R is	c) A is true but R is false.	d) A is false but R is true.	a																	

	the correct explanation of A.	not the correct explanation of the A.			
19	In a meeting, the map of a village was placed in such a manner that south-east becomes north, north-east becomes west and so on. What will south become?				
	a) North	b) North-east	c) North-west	d) West	<b>b</b>
20	In a certain coding language 'CHEMISTRY' is written as 'DGFLJRUQZ', then in the same code 'GEOMETRY' will be written as: A. HDPLFSSZ B. HDLPFSXS C. HLDPFSSX D. HDPLFSSX				
	a) A	b) B	c) C	d) D	<b>d</b>
21	The overall strategy or plan for conducting a research study refers to -				Answer option
	a) Problem	b) Statement	c) Methods	d) Design	<b>d</b>
22	Given below are the characteristics of Research Design. Match the two sets and choose the correct answer from the code:				Answer option
	A. Neutrality	i. The results are accurate and can be replicated			
	B. Reliability	ii. The outcome can be applied to a large set of people			
	C. Validity	iii. The assumptions made are free from bias			
	D. Generalizability	iv. Use of appropriate measuring tools			
	a) A-i, B-ii, C-iii, D-iv	b) A-iii, B-i, C-iv, D-ii	c) A-ii, B-iv, C-i, D-iii	d) A-iv, B-iii, C-ii, D-i	<b>b</b>
23	The internal validity factor in research is associated with the issue of -				Answer option
	a) Duplication	b) Causality	c) Naturalism	d) Generalizability	<b>b</b>
24	In which of the following research the objective is to develop hypotheses rather than their testing?				Answer option
	a) Exploratory	b) Empirical	c) Diagnostic	d) Laboratory	<b>a</b>
25	Which of the following are the complete experimental research designs? A. One group after-only design B. Factorial design C. One-group before-after design D. Latin square design				Answer option
	a) A and B only	b) A and C only	c) B and D only	d) C and D only	<b>d</b>
26	A hypothesis that is alternative to the null hypothesis is represented as -				Answer option
	a) $H_1$	b) $H=0$	c) $H_0$	d) $H_{alt}$	<b>a</b>

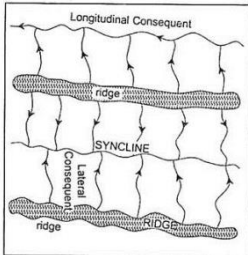
27	Which of the following software is <b>NOT</b> used for managing references?				Answer option
	a) EndNote	b) Mendeley	c) Tableau	d) Zotero	<b>c</b>
28	Which one of the following sampling technique is considered most reliable in heterogeneous population?				
	a) Stratified	b) Simple Random	c) Purposive	d) Convenient	<b>a</b>
29	Which one of the following is <b>false</b> about a questionnaire?				
	a) Saves money in research.	b) Applicable to literate/illiterate respondents.	c) Chance of getting unfiled questions is more.	d) Chance of delay in respondent's response is high.	<b>b</b>
30	Which of the following sampling technique is an <b>Odd</b> one?				
	a) Snowball	b) Purposive	c) Quota	d) Cluster	<b>d</b>
31	<p><b>Directions:</b> - 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:</p> <p><b>A: Assertion:</b> Literature review is indispensable in research.</p> <p><b>B: Justification:</b> Literature review enables researcher not only to grasp a given topic but also helps identify research gaps and develop theoretical and conceptual framework.</p>				
	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>a</b>
32	Which one of the following sampling technique is considered most reliable in homogeneous population?				
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33	<p>Which among the following are statistical package?</p> <p>A. SPSS B. SAS C. ANOVA D. STATA</p> <p>Choose the correct answer from the options</p>				
	a) A, B, C & D	b) A & B	c) A, B & C	d) C & A	<b>c</b>
34	Which one of the following descriptive statistics is most affected by outliers?				
	a) Mean	b) Median	c) Mode	d) Range	<b>b</b>
35	Which descriptive statistics is least affected by outliers?				
	a) Range	b) Standard Deviation	c) Median	d) Mean	<b>c</b>
36	Which are <b>TRUE</b> about descriptive statistics?				
	<p>A. Uses measures such as mean, median, mode, etc.</p> <p>B. Describe population characteristics.</p>				

	<p>C. Involves hypothesis testing.  D. It forms the ultimate basis for drawing inferences.  Choose the correct answer from the options given below.</p>														
	a) A, B & C	b) A, C & D	c) A & B	d) B, C & D	c										
37	Which descriptive statistics measures “peakedness” of a dataset?														
	a) Variance	b) Kurtosis	c) Range	d) Median	b										
38	Match the pairs: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">Research Types</th> <th style="width: 50%;">Characteristics</th> </tr> </thead> <tbody> <tr> <td>A. Fundamental Research</td> <td>1 Finding out the extent of perceived impact of an intervention</td> </tr> <tr> <td>B. Applied research</td> <td>2. Developing an effective explanation through theory building</td> </tr> <tr> <td>C. Action research</td> <td>3. improving an existing situation through use of interventions</td> </tr> <tr> <td>D. Evaluative research</td> <td>4. Exploring the possibility of a theory for use in various situations</td> </tr> </tbody> </table>				Research Types	Characteristics	A. Fundamental Research	1 Finding out the extent of perceived impact of an intervention	B. Applied research	2. Developing an effective explanation through theory building	C. Action research	3. improving an existing situation through use of interventions	D. Evaluative research	4. Exploring the possibility of a theory for use in various situations	
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	a) A-4, B-2, C-3, D-1	b) A-4, B-2, C-1, D-3	c) A-2, B-3, C-1, D-4	d) A-3, B-1, C-2, D-4	a										
39	Research ethics is concerned with -														
	a) Data analysis through quantitative or qualitative techniques	b) Defining the population of research	c) Following the prescribed format of a thesis	d) Evidence based research reporting	d										
40	What exemplifies the action research strategy's cyclical nature?														
	a) Observe, Act, Reflect, Plan	b) Plan, Act, Observe, Reflect	c) Reflect, Observe, Plan, Act	d) Plan, Observe, Act, Reflect	c										
41	A research that attempts to evaluate the effect of method of feeding on anxiety - proneness of children is -														
	a) Case study method	b) Survey method	c) Ex-post Facto method	d) Experimental Method	d										
42	A researcher plans to investigate the impact of potentially organizing successful midday meal programs. Which research design will work best for this kind of study?														
	a) Historical method	b) Experimental method	c) Descriptive survey method	d) Ex-post-facto method	b										
43	In which of the following research methods, an empirico—inductive paradigm is employed? 1. Ethnographic probe 2. Case study method 3. Ex post facto method 4. Narrative method 5. Experimental method Select your answer from the options given below:														
	a) 1, 2 & 3	b) 2, 3 & 4	c) 1, 2 & 4	d) 3, 4 & 5	c										
44	What is required in the principle of "justice" in research ethics?														
	a) Ensuring that the research is published.	b) Equitable selection and fair treatment of research participants.	c) Maximizing the number of participants.	d) Using the most advanced research methods available.	b										

45	Which ethical principle emphasizes that research should do no harm?				
	a) Autonomy	b) Justice	c) Beneficence	d) Respect for persons	c
46	From the list given below identify those which are called Non-probability sampling procedures: i. Dimensional sampling ii. Snowball sampling iii. Quota sampling iv. Stratified sampling				
	a) i, ii & iii	b) ii, iii & iv	c) i & ii	d) iii & i	a
47	Which of the following actions is considered plagiarism?				
	a) Paraphrasing a source without giving credit.	b) Conducting original research.	c) Reviewing literature for a study.	d) Quoting a source with proper citation.	a
48	Below are given two sets – research methods (Set-I) and data collection tools (Set-II). Match the two sets and indicate your answer by selecting the correct code:				
	A. Experimental method		i. Using primary secondary sources		
	B. Ex post-facto method		ii. Questionnaire		
	C. Descriptive survey method		iii. Standardized tests		
	D. Historical method		iv. Typical characteristics tests		
	a) A-ii, B-i, C-iii, D-iv	b) A-iii, B-iv, C-ii, D-i	c) A-ii, B-iii, C-i, D-iv	d) A-ii, B-iv, C-iii, D-i	b
49	<b>Directions:</b> - 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: <b>A: Assertion:</b> Sustainable development is critical to well being of human society. <b>B: Justification:</b> Environmentally sound policies do not harm the environment or deplete the natural resources.				
	a) Both A and B are true and B is the correct explanation of A.	b) Both A and B are true and B is not the correct explanation of A.	c) A is true but B is false.	d) Both A and B are false.	b
50	Which of the following is a prerequisite for starting a research?				
	a) Developing a research design.	b) Deciding about the data analysis procedure.	c) Formulating a research hypothesis.	d) Formulating a research question.	d
51	Who gave the statement, “the landscape is the result of two competing tendencies i.e. tendency towards variability and tendency towards uniformity”?				
	a) W. M. Davis	b) Walter Penck	c) R. E. Horton	d) G. K. Gilbert	d) G. K. Gilbert
52	Which plate is being subducted beneath western South America?				
	a) the Pacific plate	b) the South American Plate	c) the Nazca plate	d) the South Atlantic plate	c) the Nazca plate
53	Batholiths are landforms created by:				

	a) Volcanic activities	b) Groundwater	c) Fluvial action	d) Glaciers	a) Volcanic activities
54	Match the two sets and indicate your answer by choosing from the code:				
	List I		List II		
	a. Normal Fault		1. Fluvial process		
	b. Sill and Dykes		2. Epeirogenic forces		
	c. Pot holes and plunge pools		3. Tensional stress		
	d. Emergence and submergence		4. Plutonic		
	a) a-2, b-3, c-4, d-1	b) a-3, b-4, c-1, d-2	c) a-1, b-3, c-2, d-4	d) a-4, b-1, c-3, d-2	b) a-3, b-4, c-1, d-2
55	Match List I with List II and select the correct answer from the codes given below:				
	List I		List II		
	a. Parallel Retreat		1. W.M. Davis		
	b. Stream competency and capacity		2. W.Penck		
	c. Cycle of Erosion		3. G.K. Gilbert		
	d. Base level erosion		4. J.W. Powell		
	a) a-1, b-4, c-3, d-2	b) a-1, b-2, c-4, d-3	c) a-4, b-3, c-2, d-1	d) a-4, b-2, c-1, d-3	c) a-4, b-3, c-2, d-1
56	Consider the following statements and choose the correct statements:				
	1. Igneous rocks are also called secondary rocks. 2. Sedimentary rocks contain fossils of plants, animals and other microorganisms. 3. Extrusive igneous rocks have a very fine-grained structure. 4. Sandstone is made from grains of granite.				
	a) Only 1	b) Only 2	c) Only 3	d) 1 & 4	b) Only 2
57	Which one of the following groups of landforms is produced by erosion? Choose the correct option:				
	1. Fiords, Drumlin, Natural levees 2. Playa, Pinnacle, Swallow holes 3. Eskers, Outwash plain, Till 4. Cirques, Stalagmites, Ventifacts				
	a) 1 & 4	b) Only 1	c) 2 & 4	d) Only 2	d) Only 2
58	Given below are two statements: Statement 1: The process in which one plate slides beneath another plate is zone of convergence. Statement 2: Sea floor spreading becomes more prominent along the zone of convergence. In the light of the above statements, choose the correct answer from the options given below:				
	a) Both 1 & 2 are true	b) Both 1 & 2 are false	c) 1 is true but 2 is false	d) 1 is false but 2 is true	b) Both 1 & 2 are false
59	Given below are two statements: One is labelled as Assertion (A) and the other is labelled as Reason (R) Assertion (A): Fiord is not a suitable location for a port. Reason (R) : Fiords are drowned glaciated valleys with narrow deep channels along the coast.				



	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 not correct.	d) A is not correct but R is correct.	a) Both A and R are correct and R is the correct explanation of A.
60	<p>Given below are two statements: One is labelled as Assertion (A) and the other is labelled as Reason (R)</p> <p>Assertion (A): Volcanic soils are usually fertile.</p> <p>Reason (R): The heat of eruptions causes fertility on such soils.</p> <p>In the light of the above statements, choose the most appropriate answer from the options given below:</p>				
	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) Both A and R are correct and R is the correct explanation of A
61	If water is flowing through a pipe of diameter 1 cm at 100 m/s, then find its viscosity if the Reynolds number of the flow is 1000.				
	a) 10	b) 0.1	c) 100	d) 1	a) 10
62	<p>What type of drainage pattern is this?</p> 				
	a) Dendritic	b) Trellis	c) Rectangular	d) Barbed	b) Trellis
63	<p>Which of the following is correct for Dreinkanter?</p> <ol style="list-style-type: none"> <li>It is a faceted rock boulder, cobbles and pebbles.</li> <li>It is formed by long periods of wind erosion.</li> <li>They are also called as ventifacts</li> <li>They have two to three abraded facets</li> </ol> <p>Choose the correct answer from the options given below:</p>				
	a) 1, 2 & 4	b) Only 1	c) 1, 2 & 3	d) 1 & 4	c) 1, 2 & 3
64	The Inter tropical Convergence Zone (ITCZ) is characterized by:				
	a) High-pressure systems	b) Low-pressure systems	c) High humidity levels	d) Strong westerly winds	b
65	<p>Which of the following natural characteristics are associated with dry monsoon forests of India?</p> <ol style="list-style-type: none"> <li>Annual rainfall is below 50 cm</li> <li>The trees have short roots</li> <li>Conditions remain favourable for plant growth throughout the year</li> </ol>				

	d. Thorny shrubs and grasslands are found between the trees.				
	a) a & d	b) b & c	c) c & d	d) d & c	a
66	What is the term used to describe the process by which water vapor is released from plants into the atmosphere?				
	a) Condensation	b) Precipitation	c) Respiration	d) Transpiration	d
67	The Beaufort Scale is used to measure:				
	a) Wind speed	b) Humidity levels	c) Precipitation intensity	d) Air pressure	a
68	Match the pairs:				
	A. Horse Latitudes		1. Subtropical High Pressure Belt		
	B. Intertropical Convergence Zone		2. Equatorial Low Pressure Belt		
	C. Subtropical High Pressure Belt		3. Trade Winds		
	D. Equatorial Low Pressure Belt		4. Low pressure		
	a) A-1, B-2, C-3, D-4	b) A-2, B-3, C-4, D-1	c) A-3, B-2, C-4, D-1	d) A-3, B-4, C-1, D-2	a
69	The atmospheric layer that contains the ozone layer and absorbs the majority of the Sun's ultraviolet (UV) radiation is:				
	a) Troposphere	b) Stratosphere	c) Ionosphere	d) Exosphere	b
70	<p><b>Directions:</b> - 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:</p> <p><b>A: Assertion:</b> El Niño is a climate pattern that occurs in the Pacific Ocean.</p> <p><b>B: Justification:</b> It involves a periodic warming of sea surface temperatures.</p>				
	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.	a
71	Identify the cryogenic indicators of Paleoclimates:				
	<p>A. Evaporite deposits</p> <p>B. Ice cores</p> <p>C. Varves</p> <p>D. Ice sheet</p>				
	a) B & A	b) A & D	c) B & D	d) B & C	c
72	Which wind belt is located near the poles and is characterized by cold air sinking and flowing towards lower latitudes?				
	a) Polar easterlies	b) Trade winds	c) Westerlies	d) Hadley Cell	a
73	<p>Consider the statement about Indian Ocean currents.</p> <p>A. Somali current is warm current of Indian ocean</p> <p>B. Peru current is a cold current of Indian Ocean</p> <p>C. North Equatorial current disappears in the month of August and September.</p> <p>D. Somalia is a cold current of Indian Ocean.</p> <p>Choose the correct answer from the options given below:</p>				
	a) A & B	b) B & C	c) C & D	d) A & D	c

74	The greenhouse effect primarily involves the trapping of which type of radiation in Earth's atmosphere?				
	a) Ultraviolet (UV)	b) Visible	c) Infrared (IR)	d) X-rays	c
75	The oceanic zone characterized by extremely high pressure, darkness, and the presence of hydrothermal vents is called -				
	a) Hadal zone	b) Abyssopelagic zone	c) Bathypelagic zone	d) Mesopelagic zone	b
76	Match the pairs:				
	A. Agulhas Current	1. Indian Ocean			
	B. Brazil Current	2. South Atlantic Ocean			
	C. California Current	3. Pacific Ocean			
	D. Gulf Stream	4. Atlantic Ocean			
	a) A-1, B-2, C-3, D-4	b) A-2, B-3, C-4, D-1	c) A-3, B-4, C-2, D-1	d) A-4, B-3, C-2, D-1	a
77	Given below are two statements: <b>Statement 1:</b> Highest source of marine pollution is shipping. <b>Statement 2:</b> The South East Asia has highest % of endangered coral reefs by marine pollution. Choose the correct option.				
	a) Both 1 & 2 are true	b) Both 1 & 2 are false	c) 1 is true but 2 is false	d) 1 is false but 2 is true	a
78	A transition layer between warmer mixed water at the ocean surface and the cooler deep water below is called -				
	a) Thermocline	b) Halocline	c) Chemocline	d) Pycnocline	a
79	The Sargasso Sea, known for its distinctive floating seaweed, is located in which ocean?				
	a) Indian Ocean	b) Pacific Ocean	c) Atlantic Ocean	d) Arctic Ocean	c
80	Match the pairs:				
	Tropical Disturbances		Wind Speed in Circulation (kmph)		
	A. Low pressure area	1. 89-118			
	B. Severe cyclonic storm	2. 31-49			
	C. Depression	3. < 31			
	D. Cylonic storm	4. 62-88			
	a) A-3, B-1, C-2, D-4	b) A-3, B-2, C-1, D-4	c) A-1, B-2, C-3, D-4	d) A-4, B-3, C-2, D-1	a
81	Which one of the following is correct arrangement of ocean in ascending order of their size? i. Atlantic ii. Pacific iii. Arctic iv. Indian				
	a) i, iii, iv, ii	b) iii, ii, iv, i	c) iii, iv, i, ii	d) i, iv, ii, iv	c
82	What is the name of the deepest point in the ocean?				
	a) Puerto Rico Trench	b) Java Trench	c) Tonga Trench	d) Mariana Trench	d

83	The continental shelf is the shallowest part of the ocean, extending from the shoreline to approximately how many meters deep?				
	a) 1000 m	b) 500 m	c) 200 m	d) 100 m	b
84	Which of the following statements is/ are not true? Surface Circulation of Ocean is due to: A. Resisting Force B. Tidal Force C. Gravitational Force D. Blowing Wind				
	a) A & B are true	b) B & D are false	c) D is true	d) A is not true	d
85	What is the name of the phenomenon where warm surface waters in the Pacific Ocean shift eastward along the equator, affecting global weather patterns?				
	a) Typhoon	b) Monsoon	c) El Niño	d) La Niña	c
86	Who mentioned the ecosystem as ‘the basic unit in ecology’?				Answer option
	a) Odum	b) Evans	c) Cowles	d) Tansley	b
87	Given below are the Ecosystem functions. Match the two sets and choose the correct answer from the code:				Answer option
	A. Regulatory functions	i. Photosynthesis and nutrient uptake			
	B. Production functions	ii. Maintenance of human health			
	C. Habitat functions	iii. Life support systems			
	D. Information functions	iv. <i>In situ</i> conservation			
	a) A-i, B-ii, C-iii, D-iv	b) A-ii, B-i, C-iv, D-iii	c) A-iii, B-i, C-iv, D-ii	d) A-iv, B-iii, C-ii, D-i	c
88	Which of the following are secondary consumers? A. Mosquito larvae B. Snake C. Mollusc D. Sparrow <b>Choose the most appropriate answer from the options given below:</b>				Answer option
	a) A and C only	b) A and D only	c) B and C only	d) B and D only	b
89	Given below are two statements: One is labeled as Assertion (A) and the other is labeled as Justification (B): A: Assertion: Keystone species help holds a system together. B: Justification: They are vital for the survival of the ecosystem. <b>In the light of above statements, choose the correct answer from the options given below:</b>				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	a
90	A distinct ecological community of plants and animals living together in a particular climate is -				Answer option

	a) Niche	b) Habitat	c) Biome	d) Ecosystem	<b>c</b>
91	An ecological interaction wherein one organism is benefitted and another is unaffected is called -				Answer option
	a) Mutualism	b) Parasitism	c) Competition	d) Commensalism	<b>d</b>
92	Given below are the types of food chains and their characteristics. Match the two sets and choose the correct answer from the code:				Answer option
	A. Grazing food chain		i. Living in or on a host organism		
	B. Parasitic food chain		ii. Dead fungi and bacteria		
	C. Saprophytic food chain		iii. Predator-prey relationship		
	D. Decomposer food chain		iv. Dead organic matter		
	a) A-iii, B-i, C-iv, D-ii	b) A-i, B-ii, C-iii, D-iv	c) A-ii, B-i, C-iv, D-iii	d) A-iv, B-iii, C-i, D-ii	<b>a</b>
93	Which of the following are the causes of the Urban Heat Island Effect?  A. Transparent structures with high albedo. B. Dark surfaces like concrete and asphalt. C. Reflect more of the sun's energy. D. Reduction in vegetation, water bodies, and crop fields.				Answer option
	a) A and C only	b) A and D only	c) B and C only	d) B and D only	<b>d</b>
94	Which article of the Indian Constitution mandates that the State shall endeavor to protect and improve the environment and safeguard the forests and wildlife of the country?				Answer option
	a) Article 51 A	b) Article 50A	c) Article 48 A	d) Article 45 A	<b>c</b>
95	Which pollution causes Itai-Itai disease in human beings?				Answer option
	a) Cadmium	b) Nitrate	c) Mercury	d) Arsenic	<b>a</b>
96	The outcomes of the Kyoto Protocol of 1997 were: A. The protocol entered into force on 11 December 1997. B. The protocol was applied to 6 greenhouse gases. C. China and India were exempted from the Kyoto Agreement. D. Currently, there are 192 signatories to the Kyoto Protocol. Choose the most appropriate answer from the options given below:				Answer option
	a) A and C only	b) A and D only	c) B and C only	d) B and D only	<b>c</b>
97	Given below are two statements: One is labeled as Assertion (A) and the other is labeled as Justification (B): A: Assertion: The Sustainable Development Goals (SDGs), also known as the Global Goals were adopted by the United Nations in 2015. B: Justification: SDG 10 aims to achieve gender equality and empower all women and girls.				Answer option

	In the light of above statements, choose the correct answer from the options given below:				
	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>c</b>
98	The Paris Agreement is also known as -				Answer option
	a) COP 18	b) COP 19	c) COP 20	d) COP 21	<b>d</b>
99	Which continent has the highest growth rate of the population?				
	a) Asia	b) Africa	c) Europe	d) Australia	<b>(b)</b>
100	Which one of the following is not an area of the sparse population?				
	a) The Atacama	b) Equatorial Region	c) South-East Asia	d) Polar Regions	<b>(c)</b>
101	Which of the following statements on desert population is true? A) Oases are places of dense settlements in the deserts. B) Mid latitude deserts face the problem of water scarcity as well as extremes of temperature. C) Oasis settlements associated with mineral resources cease to exist once the resources are exhausted. D) The population density in the desert is decreasing exponentially.				
	a) A & B	b) A, C & D	c) A, B & C	d) A & C	<b>(c)</b>
102	Choose the correct answer from the given pair statement which is the suitable reasoning, Assertion: A - Before 1921, India's population growth rate was very low. Reason: R - The birth rate before 1921 was very low.				
	a) Both A and R are correct and R explains A	b) Both A and 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>(c)</b>
103	Match the following theories and concepts with their propounder.				
	A). Urban Growth Stage theory	i). Rogers			
	B). Unified Field theory	ii). J. E Vance			
	C). Mercantile concept	iii). Thompson			
	D). Diffusion Curve	iv). S. B Jones			
	A) A-iv, B-ii, C-iii, D-i	b) A-iii, B-iv, C-ii, D-i,	c) A-ii, B-i, C-iv, D-iii	d) A-i, B-ii, C-iii, D-iv	<b>(b)</b>
104	Which of the following is not a push factor for out migration				
	a) Water shortage	b) Unemployment	c) Medical facilities	d) Epidemic	<b>(c)</b>
105	Choose the true statements about Primitive Gathering economy from the following statements A). It is the oldest form of Economic activity. B). It is practiced because of very low man land ratio. C). It mostly involves Tribal societies.				

	D). It provides a strong sense of territoriality.				
	a) A & B are correct	b) B & C are correct	c) C & D are correct	d) All are correct	(d)
106	By the 2025 AD the world population will be -				
	a) 6.8 billion	b) 8 billion	c) 6 billion	d) 8.6 billion	(b)
107	Choose the correct statement from the following Third Stage in the demographic transition is characterized by; A. High birth rate and high death rate. B. High birth rate and rapidly declining death rate. C. Low death rate and rapidly declining birth rate. D. Low birthrate and Low death rate.				
	a) A & B	b) B & C	c) Only D	d) A & D	(c)
108	Scattered type of settlements is associated with				
	a) Broken relief	b) Plain areas	c) Desert land	d) None of these	(a)
109	Which of the following pairs are not correctly matched? A. Indonesians-Australoid B. North African -Caucasoid C. South Asian - Mongoloids D. South Americans- Australoid, Mongoloids & Caucasoid				
	a) A & B	b) A, C & D	c) B & C	d) B & D	(b)
110	Which of the following statement is true? In his theories Malthus failed to recognize A). Change in human dietary pattern. B). Changes in Technology. C). The discovery of new inhabitable regions. D). War and Diseases.				
	a) A & D	b) C & D	c) Only B	d) Only C	(c)
111	When adjoining towns grow and merge together it is known as -				
	a) Metropolis	b) Agglomeration	c) Conurbation	d) None of these	(b)
112	Which among the following countries is the largest producer of bauxite in the world?				Answer option
	a) Australia	b) Brazil	c) China	d) India	(a)
113	Choose the correct answer from the given pair statement which is the most suitable reasoning A: Assertion- The coal deposits are immensely important to south Africa as energy resource R: The country has no petroleum or Natural gas and only a modest hydroelectric power				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	(a)
114	Which country is the largest producer of crude steel in the world?				Answer option
	a) Japan	b) China	c) U.S. A	d) None of these	(b)

11 5	Social geography is primarily concerned with -				
	a) Social relations and identities & social space	b) Social relations and societies in space	c) Social relations and equalities	d) Social Equation	(b)
11 6	Which one of the following is not usually considered an indicator of social wellbeing,				
	a) Infant mortality	b) Female literacy	c) Availability of portable water	d) Crime	(d)
11 7	Choose the true statement from the following A). The emergence of cultural hearth occurred during the Mesolithic period B). The belief that people and not environment are the dynamic forces of cultural development is termed as Possibilism. C). Cultural convergence is the merging of original cultural hearths. D). Cultural landscape is best understood as an outcome of kinship.				
	a) A is true	b) B is true	c) C is true	d) All are true	(b)
11 8	Choose the correct answer from the given pair statement which is the most suitable reasoning A: Assertion - The relationship between cultural practices by a group and the environment it occupies is expressed in term as Cultural ecology. R: Reasoning - Culture is the outcome of adaptation and influence of the environment occupied by a group as their habitat.				
	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 but R is not the correct explanation of A	(d)
11 9	Match the following				
	A). Adivasis		i). Kerala		
	B). Moplahs		ii). Nilgiri Hills		
	C). Todas		iii). Manipur		
	D). Angamis		iv). Madhya Pradesh		
	a) A-iv, B-ii, C-i, D-iii	b) A-iv, B-i, C-ii, D-iii	c) A-ii, B-iv, C-iii, D-i	d) A-iv, B-iii, C-ii, D-i	(b)
12 0	The zones and strata theory pertaining to origin of human races was propounded by -				
	a) Griffith Taylor	b) Ripley	c) Baker	d) Huntington	(a)
12 1	Choose the true statemen/statements from the following A). The Rimland theory was propounded by Spykman to counter the Heartland theory of Mackinder. B). The concept of Modern state is an 18 <sup>th</sup> Century idea. C). Core area of political geography deals with social structure. D). The term “state “usually refers to a political boundary only.				
	a) Only A is true	b) B & C are true	c) C & D are true	d) All are true	(a)
12 2	The zone of varying width separating the Ecumene of a given pair of State is known as -				
	a) Frontiers	b) Boundaries	c) Federal States	d) Nations	(a)



123	Linguistic Diffusion is usually the result of -				
	a) Common origin of a language	b) Distance decay factor	c) Innovations	d) Migration and assimilation	(d)
124	Choose the correct answer from the given pair statement which is the most suitable reasoning A: Assertion - Of the four major world religion Christianity has experienced the most diverse geographical diffusion. R: Reasoning - Christianity is most widely practiced religion across the world.				
	a) R is true but A is false	b) Both A & R are true	c) Both A & R is true but R is not the correct explanation of A	d) A is true but R is False	(c)
125	Choose the true statements from the following A. Since the end of paleolithic period the rate of invention and innovation has been decreasing. B. The carrying capacity of a defined region would be lowest for hunters-gatherers. C. The end of paleolithic period was characterized by beginning of subsistence system of hunting and gathering. D. The most accurate representation of cultural unit is complex region realm and traits.				
	a) A & B	b) B & C	c) A & D	d) All of them	(b)
126	The Heartland Theory was propounded by -				
	a) Griffith Taylor	b) Ratzel	c) Mackinder	d) Spykman	(c)
127	The Distance of territorial control of a nation state's exclusive economic zone is -				
	a) 12 nautical miles (19 km)	b) 24 nautical miles (38 km)	c) 200 nautical miles (370 km)	d) Over 200 nautical miles (more than 370 km)	(c)
128	Which one of the following has been described as west wind by Homer?				Answer option
	a) <i>Boreas</i>	b) <i>Eurus</i>	c) <i>Zephyrus</i>	d) <i>Notus</i>	<b>c</b>
129	In the Ramayana, Valmiki referred to seasons ( <i>Ritus</i> ) in India. Match the two sets and choose the correct answer from the code:				Answer option
	A. <i>Grishma</i>		i. Severe winter		
	B. <i>Sarad</i>		ii. Winter		
	C. <i>Hemanta</i>		iii. Summer		
	D. <i>Sisira</i>		iv. Autumn		
	a) A-i, B-ii, C-iii, D-iv	b) A-iii, B-iv, C-ii, D-i	c) A-ii, B-i, C-iv, D-iii	d) A-iv, B-iii, C-i, D-ii	<b>b</b>
130	Which of the following are the works of Immanuel Kant? A. Anthropology from a Pragmatic Point of View				Answer option

	B. Description regni Laponiae et Siam C. Ankündigung D. Book of Various Enterprises Choose the most appropriate answer from the options given below:				
	a) A and C only	b) A and D only	c) B and C only	d) B and D only	<b>a</b>
13 1	Given below are two statements: One is labeled as Assertion (A) and the other is labeled as Justification (B): A: Assertion: Humboldt divided <i>Kosmos</i> into uranography and geography.  B: Justification: Uranography deals with topical, formal, and material features.  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>c</b>
13 2	Carl Ritter wrote how many volumes under the <i>Erdkunde</i> ?				Answer option
	a) 14	b) 16	c) 17	d) 19	<b>d</b>
13 3	Who wrote the article "Darwin's Impact on Geography" in 1966?				Answer option
	a) Herbertson	b) Stoddart	c) Huxley	d) Barrows	<b>b</b>
13 4	Which of the following are the works of Ellen Churchill Semple? A. Man and Nature B. Hundred Years of Geography C. American History and its Geographical Conditions D. Influence of Geographical Environment				Answer option
	a) A and C only	b) A and D only	c) B and C only	d) C and D only	<b>d</b>
13 5	Who among the following preferred to term the quantitative revolution a 'civil war'?				Answer option
	a) Minshull	b) L. D. Stamp	c) I. Burton	d) D. Harvey	<b>b</b>
13 6	Who is accused of "leaving ge out of geography"?				Answer option
	a) Humboldt	b) Guyot	c) Hartshorne	d) Reclus	<b>c</b>

13 7	Given below are the modern themes in Geographical thought and their advocates. Match the two sets and choose the correct answer from the code:				Answer option
	A. Yi-Fu-Tuan	i. Radicalism			
	B. Wright and Kirk	ii. Realism			
	C. Peet	iii. Humanism			
	D. Gibson	iv. Behaviouralism			
	a) A-ii, B-iii, C-iv, D-i	b) A-iii, B-iv, C-i, D-ii	c) A-iv, B-i, C-ii, D-iii	d) A-i, B-ii, C-iii, D-iv	<b>b</b>
13 8	Who among the following were the leading advocates of quantitative revolution in Geography? A. Hagerstrand and Chorley B. Kirk and Tuan C. Hagget and Bunge D. Porteous and Sonnenfeld <b>Choose the most appropriate answer from the options given below:</b>				Answer option
	a) A and C only	b) A and D only	c) B and C only	d) B and D only	
13 9	Given below are two statements: One is labeled as Assertion (A) and the other is labeled as Justification (B): A: Assertion: Postmodernism is a recent movement in humanities, philosophy, arts, and social sciences. B: Justification: Postmodernism is divided into style, method, and epoch. <b>In the light of above statements, choose the correct answer from the options given below:</b>				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	
14 0	Which of the following environments has been advocated by Porteous in 1977?				Answer option
	a) Geographical	b) Operational	c) Perceptual	d) Contextual	
14 1	Which of the following is <b>NOT</b> a technique used for quantitative representation of geographical data?				<b>d</b>
	a) Isopleth	b) Density	c) Choropleth	d) Location	Location
14 2	Comment on the assertion (A) and justification (B) given below. A: Isopleth will be separate line in all cases. B: In case of distribution temperature the isopleth will never join.				<b>c</b>
	a) A is false, B is also false	b) Both A & B are true	c) A is false, B is true	d) Both A & B are false	
14 3	Arrange in order of dimension of analysis - from lower to higher i. Relief analysis ii. Drainage density iii. Stream order iv. Stream length				<b>b</b>
	a) ii, iii, i, iv	b) iii, iv, ii, i	c) i, ii, iii, iv	d) iv, iii, I, ii	

14 4	Which of the following is true for Rank size rule?				b
	a) Third city will have one third population of first city.	b) Primate city should have a population more than 3000.	c) Ranking is done on composite indices.	d) Mean population of cities in a state should be one fourth of first city.	Primate city should have a population more than 3000
14 5	Which of the following is not a part of Christaller's assumption? A. an evenly distributed population. B. distance decay mechanism does not hold good. C. transport cost may not be directly proportional to distance travelled. D. consumers are of the same income level and same shopping behaviour.				a
	a) B & C	b) A & B	c) B & D	d) C & D	B & C
14 6	Is the justification B valid in the light of assertion A A: Vector and raster are used for representation of earth surface features. B: These models use coordinate pairs for representation.				a
	a) A is true but B is false	b) A is false but B is true	c) Both are true and justification is right	d) Both are false	A is true but B is false
14 7	Nearest neighbor analysis is used for which of the following?				a
	a) Finding clusters	b) Finding quality of data	c) Assessing neighbourhood quality	d) Analyzing popular places	Finding clusters
14 8	The Dampa Tiger Reserve is located in which state?				
	a) Mizoram	b) Nagaland	c) Meghalaya	d) Manipur	a
14 9	Choose the true statement: The Mathabhanga River serves as an international border between - A. India and Bangladesh B. India and Myanmar C. India and Nepal D. India and Bhutan				
	a) Only A	b) Only B	c) Only C	d) Only D	a
15 0	Which is the largest brackish water lake in India?				
	a) Dal Lake	b) Vembanad Lake	c) Chilka Lake	d) Pulicat Lake	c