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Roll No:		
Application No: Name:	Registered Photo	Exam Day Photo
Exam Date: 07-Oct-2020		
Exam Time: 15:00-18:00 Examination: 1. Course Code - Ph.D.		
2. Field of Study - REGIONAL DEVELOPMENT: GEOGRAPHY (GEOH)		
SECTION 1 - SECTION 1		
Question No.1 (Question Id - 93)		
The central tendencies of a distribution is calculated to study its characteristics. If the mean is 281 279, which of the following statement is correct ?	I.4, median is 280.7 and mo	de
(A) O Moderate Negatively skewed		
(B) O Moderate Positively skewed (Correct Answer)		
 (C) ○ High negatively skewed (D) ○ High positively skewed 		
Question No.2 (Question Id - 50) On a vertical aerial photograph, an agricultural field measures 8.65 cm long and 5.13 cm wide. The What is the size of area of the field on the ground ? (A) \bigcirc 1.026 km ²	e photo scale was 1 : 20,000.	
(B) ○ 1.730 km ²		
$(C) \bigcirc 1.775 \text{ km}^2$ (Correct Answer)		
(D) ○ 1.030 km ²		
Question No.3 (Question Id - 52) GPS technology has successful applications to achieve positional accuracies ranging from 100 m t equipment and procedure used.	o few millimeters based on t	he
A. Navigation		
B. Surveying		
C. Integration with GIS		
D. Integration with RS		
Choose the correct GPS applications from the options given below :		
(A) ⊖ B, C and D only		
(B) \bigcirc A, B and C only		
(C) \bigcirc A, B and D only		
(D) O A, B, C and D (Correct Answer)		
Question No.4 (Question Id - 96) Which of the following measures of central tendency can have more than one value in a single san	nple ?	
(A) 🔿 Arithmetic mean		
(B) O Median		
 (C) ○ Mode (Correct Answer) (D) ○ Geometric mean 		
Question No.5 (Question Id - 9) The thesis supporting a Second Demographic Transition by Dutch Demographers in 1986 was bas	ed on the rationale :	
(A) ○ consideration of family size		
(B) O consideration of the rights and self-fulfilment of individuals (Correct Answer)		
(C) \bigcirc consideration of better infant and child care		
(D) O consideration for ensuring good life for the next generation		
Question No.6 (Question Id - 98) There is a difference of 8 m in water level between two wells that are located about 0.7 km apart in The subsurface material between these two places have a hydraulic conductivity of 105 m/hour. the aquifer is 65 m thick and has a cross sectional width of 90 m. What will be the rate of flow throu	The well logs determined th	ka. nat
(A) ◯ 7020 m^3/hour (Correct Answer)		
(A) \bigcirc 7020 m ⁻ 3/second (B) \bigcirc 7020 m ⁻ 3/second		
(C) O 7020000 m^3/hour		
(D) 🔿 108 m^3/hour		
Question No.7 (Question Id - 80) Given below are two statements : one is labelled as Assertion A and other is labelled as Reason	R.	
Assertion A: The distribution of <i>Palmae</i> (palm family) is mainly limited to the tropical and subtropical regions.		
Reason R:		
The Palme have only a single growing point at the apex of their stems.		
In the light of the above statements, choose the most appropriate answer from the options given	below :	

 (A) O 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 (Correct Answer) (C) A is true but R is false (D) A is false but R is true
Question No.8 (Question Id - 99) The impermeable materials, such as thick clay or unfractured igneous rock, which hinder the free flow of groundwater are called :
 (A) ○ aquifers (B) ○ aquitards (C) ○ aquifuges (D) ○ aquicludes (Correct Answer)
Question No.9 (Question Id - 16) In the nine-fold classification of Land Use by the Government of India, "all lands which were taken up for cultivation, but are temporarily out of cultivation for a period of not less than one year and not more than five years" are called :
 (A) ○ Current Fallows (B) ○ Fallow Lands other than Current Fallows (Correct Answer) (C) ○ Recent Fallows (D) ○ Current Unculturable Lands
Question No.10 (Question Id - 35) Earth is considered to be a plane in the plane surveying than the geodetic surveying. Plane surveying is used for small areas of which control points are established by geodetic surveying. Which of the following is/are the type/s of plane surveying ?
A. Plane table surveying
B. Prismatic compass surveying C. Theodolite surveying
D. Chain surveying
Choose the correct answer from the options given below :
 (A) ○ A only (B) ○ B, C and D only (C) ○ A, B, C and D (Correct Answer) (D) ○ A, C and D only
Question No.11 (Question Id - 2) Which of the following statements regarding Kerala are correct, when compared to the other states of India ?
A. The state ranks first in HDI
B. The state has the lowest fertility rate
C. The state has highest female labour force participation
D. The state has highest proportion of elderly population
Choose the correct answer from the options given below :
 (A) Statements A, B, and C are correct (B) Statements A, C and D are correct (C) Statements A, B and D are correct (Correct Answer) (D) Statements A, B, C and D are correct
Question No.12 (Question Id - 4) Rural spaces marked by green belts, national parks, game parks and where mechanisms of control are contested by social groups on the basis of their economic and environmental interests are known as :
 (A) O Preserved rural spaces (Correct Answer) (B) O Contested rural spaces (C) O Paternalist rural spaces (D) O Clientilist rural spaces
Question No.13 (Question Id - 94) The following data is an analysis of monthly production by workers in firms X, Y and Z of a manufacturing industry. Firm X Firm Y Firm Z Number of workers 550 460 700 Monthly total production (Quantity) 7975 9900 9450 Variance in production (Quantity) 100 196 225 Which of the above firm/firms has/have more consistency in production by workers ?
 (A) ○ Firm X (B) ○ Firm Y (Correct Answer) (C) ○ Firm Z (D) ○ Firm Y and Z
Question No.14 (Question Id - 61) Given below are two statements :
Statement I :

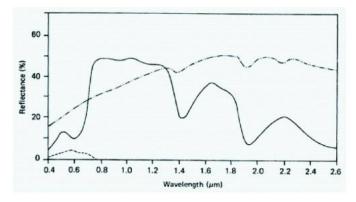
The correlation between monthly discharges of two adjacent river basins is 0.734. Statement II : There is high correlation between discharges of two adjacent river basins. (1)The stated correlation is spurious. In the light of the above statements, choose the most appropriate answer from the options given below : (A) O Statement I and Statement II-1 and II-2 are correct (B) O Statement I and Statement II-1 and II-2 are incorrect (C) O Statement I and Statement II-2 are correct while Statement II-1 is incorrect (Correct Answer) (D) O Statement I and Statement II-1 are correct while Statement II-2 is incorrect Question No.15 (Question Id - 64) A violent convective storm, accompanied by thunder and lightning, usually localized and short-lived which is always associated with vertical air motion and considerable humidity is known as : (A) 🔘 storm (B) O hurricane (C) O tropical cyclone (D) O thunderstorm (Correct Answer) Question No.16 (Question Id - 31) Each map is distinctive on the basis of design, content and construction. Maps can be classfied onto several types. Which among the following are based on relief representation? A. Hypsometric maps B. Topographic maps C. Planimetric maps D. Thematic maps Choose the correct answer from the options given below : (A) O A and D only (B) O B, C and D only (C) O A and C only (D) O A, B and C only (Correct Answer) Question No.17 (Question Id - 89) The low part of the ridges separating ocean basins from one another or from the adjacent sea-floor is known as : (A) 🔘 sea-floor (B) O sill (Correct Answer) (C) O seamount (D) O trench Question No.18 (Question Id - 63) Halocline is a zone near the ocean surface : (A) \bigcirc where only salinity of water rapidly changes with depth (B) \bigcirc where only density of water increases with depth (C) O where salinity and density of water increases with depth (Correct Answer) (D) O where salinity and pressure of water changes with depth Question No.19 (Question Id - 7) Which one of the following map projections minimizes the sum of distortions to area, distance and directions ? (A) O Mercator Projection (B) O Conical with one standard parallel (C) O Sinusoidal Projection (D) O Winkel Tripel Projection (Correct Answer) Question No.20 (Question Id - 84) The green revolution has resulted in food security for India. However, it also resulted in many environmental problems. Which one of the following is the second-generation environmental problem of green revolution in India ? $(A) \bigcirc$ excessive use of canal irrigation (B) \bigcirc excessive use of electricity for pumping of groundwater (C) ○ excessive use of water (D) O excessive drawdown of water table (Correct Answer) Question No.21 (Question Id - 69) Ocean tides are produced as a results of balance between : A. centrifugal force B. corolis forces C. gravitational force D. hydraulic gradient

Choose the correct answer from the options given below :

(A) ○ A and B (B) ○ A and C (Correct Answer) (C) ○ C and D (D) ○ B and C

Question No.22 (Question Id - 56)

Spectral reflectance curves for three basic type of Earth features are healthy green vegetation, dry bare soil (gray-brown loam) and clear lake water. Average reflectance curves compiled by measuring a large sample of features is shown in the graph below :



A. Healthy green vegetation shows distinct characteristics in energy reflection

B. Soil reflectance curve shows less peak-and-valley variation

C. Water has the most distinct characteristic in energy absorption

D. Dry bare soil manifest high peak-and-valley configuration

Choose the correct combination of average reflectance curves from the option given below :

(A) \bigcirc A, B and C only (Correct Answer)

(B) O B, C and D only

(C) \bigcirc A, B, C and D

(D) \bigcirc A, C and D only

Question No.23 (Question Id - 95)

The average age of 10 women is 50 and their average blood pressure is 137.7 mmHg. The standard deviation of age and blood pressure of these women are 11.508 and 15.203. The age and blood pressure are strongly correlated with a value of 0.894. What will be average blood pressure of these women when they attain an average age of 60 ?

(A) O 149.5 mmHg (Correct Answer)

(B) 🔿 137.5 mmHg

(C) (C) 143.6 mmHg

(D) 🔿 155.4 mmHg

Question No.24 (Question Id - 32)

Based on existing knowledge about historical development of cartography, there are four distinctive phases mentioned as follows

List – I (phases)	List – II (periods)
A. Recent period	I. 1500 to 1900 AD
B. Ancient period	II. 1900 AD to date
C. Early modern period	III. 400 to 1500 AD
D. Medieval period	IV. up to 400 AD
Choose the correct answe	er from the options give

(A) ○ A-I, B-II, C-IV, D-III
(B) ○ A-II, B-III, C-I, D-IV
(C) ○ A-II, B-IV, C-I, D-III (Correct Answer)
(D) ○ A-III, B-IV, C-I, D-II

Question No.25 (Question Id - 30)

'Pseudo-urbanisation' describing developing countries urbanisation marked by retarding economic growth was given by :

(A) O McGee (Correct Answer)

- (B) O Breese
- (C) O Dwyer
- (D) 🔘 Sovani

Question No.26 (Question Id - 67)

Arrange the following rivers in descending order of the per capita water availability :

- A. Tapti
- B. Narmada
- C. Mahanadi
- D. Ganga

(A) ○ D, B, C, A (B) ○ B, C, D, A (Correct Answer)
$(C) \bigcirc D, C, B, A$ $(D) \bigcirc D, B, A, C$
Question No.27 (Question Id - 25) Arrange in descending order, the Urban Agglomerations of India by their population size (2011 Census) :
 (A) Sangalore; Hyderabad; Ahmedabad; Pune (Correct Answer) (B) Hyderabad; Bangalore; Ahmedabad; Pune (C) Hyderabad; Bangalore; Pune; Ahmedabad (D) Bangalore; Hyderabad; Pune; Ahmedabad
Question No.28 (Question Id - 38) The real world of geographical variation is infinitely complex and uncertain. Geographic information shown on maps is populated by features which comprise the elements of the vector data model. Select the correct geographic feature types from the following list :
A. Benchmark
B. Lake / pond
C. Road centerline
D. No shape
Choose the correct answer from the options given below :
 (A) ○ B, C and D only (B) ○ A, B and D only (C) ○ A, B and C only (Correct Answer) (D) ○ A, C and D only
Question No.29 (Question Id - 42) RADAR remote sensing is one of the active sensors for imaging of the Earth which works in all weather conditions. The applications of radar remote sensing are given below :
A. Geological and geomorphological mapping
B. Soil moisture assessment
C. Ice cover monitoring
D. Oil spill monitoring
Choose correct answer for physical resource cover mapping from options given below :
 (A) ○ A, C and D only (B) ○ B, C and D only (C) ○ A, B and C only (Correct Answer) (D) ○ A, B and D only
Question No.30 (Question Id - 13) Which of the following is the correct sequence of the Core Periphery Model as given by Friedman ?
 (A) Core-periphery, dispersion of economic activity, localized economies, spatial integration (B) Localized economies, core-periphery, dispersion of economic activity, spatial integration (Correct Answer) (C) Core-periphery, localized economies, dispersion of economic activities, spatial integration (D) Localized economies, dispersion of economic activities, spatial integration, core-periphery.
Question No.31 (Question Id - 53) Wide Area Augmentation System (WAAS) enabled GPS spatially covers United States and some parts of Canada and Mexico. What is the WAAS capable receiver's accuracy ranges ?
A. WAAS capable receiver's accuracies ranging 3 to 5 metres horizontally
B. WAAS capable receiver's accuracies ranging 3 to 7 metres in altitude
C. WAAS capable receiver's normal accuracy ranging within 3 metres
D. WAAS capable receiver's normal accuracy more than 6 meters
Choose the correct WAAS enabled GPS accuracy from the options given below :
 (A) ○ B, C and D only (B) ○ A, B, C and D (C) ○ A, B and C only (Correct Answer) (D) ○ A, B and D only

Question No.32 (Question Id - 71)

Match List-I with List-II to relate rain gauge with its characteristics :

(Rain gau				List - II
10 10000 200 100	ge type)		(Characteristics)
A. Standard ma		See and a	atively	y most accurate
B. Self-recordi	na	II. Va	riation	n in rainfall overtime is not recorded
C. Tipping buc		III. Va	ariation	on in rainfall overtime is recorded
		Service and a		ative losses are more
	2			ions given below :
A) (A-II, B-III, and C B) (A-II, B-III, C-I and C C) (A-IV, B-I and C D) (A-II, B-I and C-I Question No.33 (Que	nd A-IV (Cor -II only V only stion Id - 12)	45 hu	
he concept of 'rurban (A) C.J. Galpin (Co B) K.H. Stone C) C.A. Doxiadis D) J.C. Hudson		-	15 by	
 f the following is true a The standard deviati Standard deviation g It is possible to calcund the correct ans A) A only B only B and C only A, B and C (Construction) A, B and C (Construction) 	bout the stan on can be ca jives less wei ulate the com swer from the rrect Answe stion Id - 14	dard deviation ? lculated if variar ight to the value: bined standard options given b	nce of a dis s near to m deviation o elow :	bbservations from the mean value. If this statement is correct, which distribution is known. In mean while extreme values get more weight. In of two or more groups.
A) O Migrants from w B) Migrants from o C) Migrants from o D) Migrants within Question No.36 (Que the mapping of physic couracy assessment. C	ther districts ther states of n the state o stion Id - 57 cal surface fe alculate the e	of the State India f enumeration atures and reso	ource map	Answer) apping from satellite imagery is performed on the basis of orests and the error of omission for agriculture on the basis of
A) O Migrants from w B) Migrants from o C) Migrants from o D) Migrants within Question No.36 (Que the mapping of physic couracy assessment. C	ther districts ther states of n the state o stion Id - 57 cal surface fe alculate the e below :	of the State f India f enumeration f enumeration f enumeration atures and reso error of commiss	ource map	apping from satellite imagery is performed on the basis of
A) O Migrants from w B) O Migrants from o C) O Migrants from o D) Migrants within Question No.36 (Que	ther districts ther states of n the state o stion Id - 57 cal surface fe alculate the e below : Real	of the State f India f enumeration eatures and reso error of commiss world reference	ource map ion for fore data	apping from satellite imagery is performed on the basis of orests and the error of omission for agriculture on the basis of
A) O Migrants from w B) Migrants from o C) Migrants from o D) Migrants within Question No.36 (Que the mapping of physic couracy assessment. C ata given in the table b Classified Image	ther districts ther states of n the state o stion Id - 57, cal surface fe alculate the e below : Real Forest	of the State Findia f enumeration eatures and reso error of commisse world reference Agriculture	ource map ion for fore data Urban	apping from satellite imagery is performed on the basis of orests and the error of omission for agriculture on the basis of Total
A) O Migrants from w B) Migrants from o C) Migrants from o D) Migrants within Question No.36 (Que ne mapping of physic ccuracy assessment. C ata given in the table b Classified Image	ther districts ther states of n the state o stion Id - 57 cal surface fe alculate the e below : Real	of the State f India f enumeration eatures and reso error of commiss world reference	ource map ion for fore data	apping from satellite imagery is performed on the basis of orests and the error of omission for agriculture on the basis of
A) O Migrants from w B) Migrants from o C) Migrants from o D) Migrants within Question No.36 (Que the mapping of physic couracy assessment. C ata given in the table b	ther districts ther states of n the state o stion Id - 57 cal surface fe alculate the e below : Real Forest 62	of the State f India f enumeration (eatures and reso error of commiss world reference Agriculture 5	ource map ion for fore data Urban 0	apping from satellite imagery is performed on the basis of orests and the error of omission for agriculture on the basis of Total 1 67
A) O Migrants from w B) O Migrants from o C) O Migrants from o D) Migrants within Question No.36 (Que the mapping of physic ecuracy assessment. C ata given in the table b Classified Image prests griculture	ther districts ther states of n the state o stion Id - 57 cal surface fe alculate the e below : Real Forest 62 2	of the State f India f enumeration eatures and reso error of commiss world reference Agriculture 5 18	ource map ion for fore data Urban 0 0	apping from satellite imagery is performed on the basis of orests and the error of omission for agriculture on the basis of Total 1 67 20

Question No.38 (Question Id - 75)

For a station located at an altitude 288 m above MSL, the gravitational acceleration is 9.81 ms⁻² and air density is 1.01 kg

m ⁻³ . What will be the increase in pressure if the station would have been at the MSL ? (A) \bigcirc 2.853 hPa	
(B) O 2853.532 hPa	
(C) ○ 285.353 hPa (D) ○ 28.535 hPa (Correct Answer)	
Question No.39 (Question Id - 87) Along the coastal areas where the coastal sand supplies are abundant and the sea floor slopes gently, the mainland separated by water bodies, is commonly bordered by :	
(A) O atoll	
 (B) ○ lagoons (C) ○ barrier island (Correct Answer) 	
(D) \bigcirc back-island	
Question No.40 (Question Id - 49) A vertical aerial photograph was taken by a camera with a lens of 152-mm focal length. The flying height of the aircraft was 2780 m above mean sea level. The terrain was flat with an elevation of 500 m. What is the scale of the aerial photograph ? (A) ○ 1:15,000 (Correct Answer) (B) ○ 1:10,000 (C) ○ 1:20,000 (D) ○ 1:25,000	
Question No 44 (Question Id. 49)	
Question No.41 (Question Id - 48) Black and white photography for topography mapping is acquired by aircraft flying over an area which is photographed in zig-zag pattern of adjacent flight line flown over a mapping project area. The resulting vertical photographs are on scale ranges from 1 : 20,000 to 1 : 24,000 have overlapping photograph proportions as follows. Which of the following is the correct overlaps ?	
A. Adjacent flight lines are spaced to have 30 per cent sidelap	
B. Along flight line between successive exposures have 60 per cent endlap	
C. Adjacent flight lines are spaced to have 40 per cent sidelap	
D. Along flight line between successive exposures have 80 per cent endlap	
Choose the correct answer from the options given below :	
(A) O A and D only	
(A) A and B only (Correct Answer)	
(C) \bigcirc C and D only	
(D) O B and C only	
Question No.42 (Question Id - 76) A well in which the water level rises above the top of the local aquifer is known as : (A) ○ borewell (B) ○ spring (C) ○ water table	
(D) ⊖ artesian well (Correct Answer)	
Question No.43 (Question Id - 39) In GIS, attribute data for thematic mapping can be geographically referenced by hierarchical referencing system which is also denoted as the discrete system. For GIS users such system contain a wealth of information associated with some aspects of geography as mentioned below :	
A. Land administration and title systems	
B. Municipal addresses	
C. Postal codes	
D. Census enumeration areas	
Choose the correct GIS attributes from the options given below :	
$(A) \bigcirc A \bigcirc and \bigcirc anti-$	
 (A) ○ A, C and D only (B) ○ A, B and C only 	
(C) O A, B, C and D (Correct Answer)	
(D) O B, C and D only	
Question No.44 (Question Id - 55) Large-scale digital databases having two special applications are Land Information System (LIS) and Automated Mapping/Facilities Management (AM/FM) which are consolidated into multipurpose cadastral map. The basic content of these maps are given below :	
A. Parcel boundaries, dimensions and area	
B. Block and lot numbers and parcel identifiers	
C. Doundaries of political and governmental sub-divisions	
C. Boundaries of political and governmental sub-divisions D. Right of way and easement boundaries	
 D. Right of way and easement boundaries Choose the correct content of cadastral maps from the options given below : 	
D. Right of way and easement boundaries	
 D. Right of way and easement boundaries Choose the correct content of cadastral maps from the options given below : (A) O A, B and C only 	
D. Right of way and easement boundariesChoose the correct content of cadastral maps from the options given below :	

	n descending order according to their respective global warming potential over a 100 ses are released to the atmosphere almost simultaneously.					
A. Carbon dioxide						
B. Nitrous oxide						
C. Methane						
Choose the correct answer from the optic	Choose the correct answer from the options given below					
(A) O C, A and B						
$(B) \bigcirc A, B \text{ and } C$						
 (C) ○ A, C and B (D) ○ B, C and A (Correct Answer) 						
Question No.46 (Question Id - 5) Soils associated with sub-humid, mid-latitu	ide graeslands are known as .					
(A) ○ Mollisols (Correct Answer)						
(B) O Aridisols						
(C) O Gelisols						
(D) O Vertisols						
Question No.47 (Question Id - 40)						
In GIS a network analysis is closed	y related to spatial interaction modelling. Network is "a set					
	ected in a system by a number of routes". A network denotes					
to a system of lines topologically s	tructured. In this context, a topological measures of network					
structure characteristics are ment	ioned below :					
(A) Diameter (d) = maximum d	lij					
(B) Dispersion index = $\sum_{i=1}^{v}$	$\sum_{i=1}^{N} dii$					
(b) Dispersion matrix $\sum_{i=1}^{i}$						
(C) Accessibility index = $\sum_{j=1}^{v}$	dij					
	hortest-path network from the options given below :					
 (A) ○ B, C and D only (B) ○ A, B and C only (Correct Answe) 						
$(C) \bigcirc A, B and C only (correct Answer (C) \bigcirc A, B and D only (C)$						
(D) \bigcirc A, C and D only						
Question No. 48 (Question Id. 72)						
Question No.48 (Question Id - 72) Which one of the following statements is c	orrect with reference to hygrometer ?					
	ower temperature than dry bulb thermometer. (Correct Answer)					
	er temperature than wet bulb thermometer. ers records same temperature initially, but dry bulb temperature decreases with					
increase in humidity.	as records same temperature initially, but dry buib temperature decreases with					
(D) O In wet bulb thermometer, the temp	erature decreases with increase in atmospheric humidity.					
Question No.49 (Question Id - 86)						
In most soils, the individual particles tend t	o aggregate into clumps. They are called					
(A) o peds (Correct Answer)						
 (B) ○ colloids (C) ○ crumbs 						
(D) ⊖ separates						
	I					
Question No.50 (Question Id - 66) Given below are two statements : one is la	belled as Assertion A and other is labelled as Reason R.					
Assertion A :						
Along the longitudinal profile, the valley wi	dth of the rivers increase.					
Reason R :						
	load					
It is concomitant with increase in sediment load.						
in the light of the above statements, choos	e the most appropriate answer from the options given below :					
(A) \bigcirc Both A and R are true and R is the	e correct explanation of A					
(B) \bigcirc Both A and R are true but R is NO						
(C) \bigcirc A is true but R is false (Correct A	Answer)					
(D) O A is false but R is true						
Question No.51 (Question Id - 15)	t combination :					
Match List-I with, List-II and select correct List-I	List-II					
(Types of Resource Scarcity)	(Concern)					
A. Physical scarcity supplies	Needs exceed the ability to pay for resource					
B. Geo-political scarcity C. Economic scarcity	II. Depletion of renewable resources III. Shift in the location of low cost mineral sources to hostile blocs of nations					
D. Renewable and environmental	IV. Distribution of essential bio-geographical cycles and threatening sustainability of					

noose the correct answer from the options given b	elow :		
A) O A-I, B-IV, C-II, D-III B) O A-II, B-III, C-I, D-IV (Correct Answer)			
$C) \bigcirc A-III, B-IV, C-II, D-I$			
D) 🔿 A-II, B-III, C-IV, D-I			
Question No.52 (Question Id - 28)			
ne concept of 'Dynapolis' was expounded by :			
 B) O Jean Gottman 			
C) O Patrick Geddes			
)) ○ Alexander Leman			
Question No.53 (Question Id - 60) here are two types of sampling, probability and non	-probability sampling. The types	of sampling are given below :	
Simple random sampling			
Stratified random sampling			
Systematic or interval sampling			
Systematic quota sampling			
noose the correct probability sampling techniques	from the options given below :		
$(A) \bigcirc D, C and A only$			
 B) C, B and D only C) A, B and C only (Correct Answer) 			
D) O A, B and D only			
Question No.54 (Question Id - 44)			
	14 14 21		
Remote sensing satellite sensors have v	/arying spectral and spat	al vacalutions	
terriote sensing suterrite sensors have t		al resolutions.	
List-I	List-II	al resolutions.	
	The second secon	al resolutions.	
List-I	The second secon	al resolutions.	
List-I (Remote sensing systems/sensors)	(Sensor's resolution)	al resolutions.	
List-I (Remote sensing systems/sensors) A. Landsat ETM +	(Sensor's resolution) I. 23.5 m resolution	al resolutions.	
List-I (Remote sensing systems/sensors) A. Landsat ETM + B. IRS 1-D LISS III	(Sensor's resolution) I. 23.5 m resolution II. 20 m resolution	al resolutions.	
List-I (Remote sensing systems/sensors) A. Landsat ETM + B. IRS 1-D LISS III C. SPOT 4 HRVI – M D. IKONOS PAN	(Sensor's resolution) I. 23.5 m resolution II. 20 m resolution III. 04 m resolution IV. 30 m resolution		
List-I (Remote sensing systems/sensors) A. Landsat ETM + B. IRS 1-D LISS III C. SPOT 4 HRVI – M D. IKONOS PAN	(Sensor's resolution) I. 23.5 m resolution II. 20 m resolution III. 04 m resolution IV. 30 m resolution		
List-I (Remote sensing systems/sensors) A. Landsat ETM + B. IRS 1-D LISS III C. SPOT 4 HRVI – M D. IKONOS PAN Match the correct sequence of satellite jiven above :	(Sensor's resolution) I. 23.5 m resolution II. 20 m resolution III. 04 m resolution IV. 30 m resolution		
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List-I (Remote sensing systems/sensors) A. Landsat ETM + B. IRS 1-D LISS III C. SPOT 4 HRVI – M D. IKONOS PAN Match the correct sequence of satelliter fiven above : () A-I, B-II, C-IV, D-III () A-I, B-IV, C-III, D-I () A-IV, B-I, C-II, D-III (Correct Answer) () A-I, B-II, C-III, D-IV Constitution No.55 (Question Id - 47) here are many ways to express the scale of ar presentative fraction. Suppose, 1-inch on an aeria pressed as follows : . Verbal scale 1-inch = 2,000 ft . Representative fraction 1 : 24,000 . Verbal scale 1-inch = 4,000 ft	(Sensor's resolution) I. 23.5 m resolution II. 20 m resolution III. 04 m resolution IV. 30 m resolution e/sensors and their resolution	tion from the options	
List-I (Remote sensing systems/sensors) A. Landsat ETM + B. IRS 1-D LISS III C. SPOT 4 HRVI – M D. IKONOS PAN Match the correct sequence of satellite given above : A-I, B-II, C-IV, D-III A-I, B-IV, C-III, D-I A-I, B-IV, C-III, D-I C. A-IV, B-I, C-II, D-III (Correct Answer) D. A-I, B-II, C-III, D-IV Question No.55 (Question Id - 47) here are many ways to express the scale of ar presentative fraction. Suppose, 1-inch on an aerial spressed as follows : Verbal scale 1-inch = 2,000 ft Representative fraction 1 : 24,000 Verbal scale 1-inch = 4,000 ft Representative fraction 1 : 40,000 hoose the correct answer from the options given the	(Sensor's resolution) I. 23.5 m resolution II. 20 m resolution III. 04 m resolution IV. 30 m resolution e/sensors and their resolution	tion from the options	
List-I (Remote sensing systems/sensors) A. Landsat ETM + B. IRS 1-D LISS III C. SPOT 4 HRVI – M D. IKONOS PAN Match the correct sequence of satellite jiven above : A-I, B-II, C-IV, D-III A-I, B-IV, C-III, D-I C. A-IV, B-I, C-II, D-III A-IV, B-I, C-III, D-I C. A-IV, B-I, C-III, D-I Comparison No.55 (Question Id - 47) There are many ways to express the scale of ar presentative fraction. Suppose, 1-inch on an aeria pressed as follows : Verbal scale 1-inch = 2,000 ft Representative fraction 1 : 24,000 Verbal scale 1-inch = 4,000 ft Representative fraction 1 : 40,000	(Sensor's resolution) I. 23.5 m resolution II. 20 m resolution III. 04 m resolution IV. 30 m resolution e/sensors and their resolution	tion from the options	
List-I (Remote sensing systems/sensors) A. Landsat ETM + B. IRS 1-D LISS III C. SPOT 4 HRVI – M D. IKONOS PAN Match the correct sequence of satellite jiven above : A-I, B-II, C-IV, D-III A-I, B-IV, C-III, D-I A-I, B-IV, C-III, D-I C. A-IV, B-I, C-II, D-III (Correct Answer) D. A-I, B-II, C-III, D-IV Question No.55 (Question Id - 47) here are many ways to express the scale of ar presentative fraction. Suppose, 1-inch on an aeria pressed as follows : Verbal scale 1-inch = 2,000 ft Representative fraction 1 : 24,000 Verbal scale 1-inch = 4,000 ft Representative fraction 1 : 40,000 hoose the correct answer from the options given the A) O B and C only	(Sensor's resolution) I. 23.5 m resolution II. 20 m resolution III. 04 m resolution IV. 30 m resolution e/sensors and their resolution	tion from the options	

(B) $\bigcirc\;$ changes in particle size and wind direction

(C) $\bigcirc\;$ an increase in wind speed and particle size

(D) \bigcirc change in wind direction and cohesion

	sea trench (Correct Answer)
While doing O	b.58 (Question Id - 51) Iobal Positioning System (GPS), there are many observational errors as mentioned below :
A. Satellite clo	ock error
 Multipath e 	rror
C. Orbital erro	זר
D. Receiver c	lock error
Choose the co	prrect set of errors from the options given below :
(A) 🔿 B, Ca	and D only
(B) O A, B a	
(C) (C) A , B , ((D) (C) A , B a	C and D (Correct Answer) nd D only
Question Nr	0.59 (Question Id - 26)
	vith List-II and select correct combination, based on the Total Fertility Rate and Contraceptive Prevalence Rate of
List-I (Country)	List-II (Total Fertility Rate and Contraceptive Prevalence Rate)
A. Hong Kong	
B. Sri Lanka C. Namibia	II. 1.0 and 86 percent III. 5.4 and 29 percent
D. Nigeria	IV. 6.0 and 5 percent prrect answer from the options given below :
5710036 th e Cl	
(A) O A-I, B-	
(B) O A-IV, E (C) O A-II, B	3-III, C-I, D-II 3-I, C-III, D-IV (Correct Answer)
(D) 🔿 A-IV, E	
 (B) ○ Migrat (C) ○ Nuclea (D) ○ Disper 	ated village
and cover cla	b.61 (Question Id - 43) assification procedure is to automatically categorize all pixels in an image into classes or themes. Some of the ad image classification methods for image processing are given below :
A. Unsupervi	sed classification
B. Supervise	d classification
C. Hybrid cla	ssification
D. Fuzzy clas	ssification
Choose corre	ect answer for multispectral image classification from options given below :
	ind D only
(A) 🔿 A, Ca	
(B) 🔿 A, B a	nd C only
(B) ○ A, B a (C) ○ B, C a	nd C only Ind D only
(B) ○ A, B a (C) ○ B, C a (D) ○ A , B , (ind C only ind D only C and D (Correct Answer)
(B) ○ A, B a (C) ○ B, C a (D) ○ A, B, C Question No Digital Elevatio	Ind C only Ind D only C and D (Correct Answer) D.62 (Question Id - 37) on Model (DEM) data consist of an array of regularly spaced elevations. USGS DEM products are similar in logical
(B) ○ A, B a (C) ○ B, C a (D) ○ A, B, (Question No Digital Elevation data structure	Ind C only Ind D only C and D (Correct Answer) D.62 (Question Id - 37) on Model (DEM) data consist of an array of regularly spaced elevations. USGS DEM products are similar in logical for different geographic coverages and available for units as given below :
(B) ○ A, B a (C) ○ B, C a (D) ○ A, B, (Question No Digital Elevation data structure A. 7.5-minutes	Ind C only Ind D only C and D (Correct Answer) D.62 (Question Id - 37) on Model (DEM) data consist of an array of regularly spaced elevations. USGS DEM products are similar in logical for different geographic coverages and available for units as given below : s
(B) ○ A, B a (C) ○ B, C a (D) ○ A, B, C Question No Digital Elevatio data structure A. 7.5-minutes B. 15-minutes	Ind C only Ind D only C and D (Correct Answer) D.62 (Question Id - 37) on Model (DEM) data consist of an array of regularly spaced elevations. USGS DEM products are similar in logical for different geographic coverages and available for units as given below : s
(B) ○ A, B a (C) ○ B, C a (D) ○ A, B, C Question No Digital Elevation data structure A. 7.5-minutes C. 30-minutes	Ind C only Ind D only C and D (Correct Answer) D.62 (Question Id - 37) on Model (DEM) data consist of an array of regularly spaced elevations. USGS DEM products are similar in logical for different geographic coverages and available for units as given below : s
(B) ○ A, B a (C) ○ B, C a (D) ○ A, B, (Question No Digital Elevatio data structure A. 7.5-minutes B. 15-minutes C. 30-minutes D. 01-degree	Ind C only Ind D only C and D (Correct Answer) D.62 (Question Id - 37) on Model (DEM) data consist of an array of regularly spaced elevations. USGS DEM products are similar in logical for different geographic coverages and available for units as given below : s
(B) ○ A, B a (C) ○ B, C a (D) ○ A, B, G Question No Digital Elevatio data structure A. 7.5-minutes B. 15-minutes C. 30-minutes D. 01-degree	Ind C only Ind D only C and D (Correct Answer) D.62 (Question Id - 37) on Model (DEM) data consist of an array of regularly spaced elevations. USGS DEM products are similar in logical for different geographic coverages and available for units as given below : s s
 (B) ○ A, B a (C) ○ B, C a (D) ○ A, B, C (D) ○ A, B, C Question No Digital Elevation data structure A. 7.5-minutes B. 15-minutes C. 30-minutes D. 01-degree Choose the co (A) ○ A, C a 	Ind C only Ind D only C and D (Correct Answer) Do.62 (Question Id - 37) on Model (DEM) data consist of an array of regularly spaced elevations. USGS DEM products are similar in logical for different geographic coverages and available for units as given below : s s s porrect geographic coordinate extent of USGS DEM from the options given below : and D only
 (B) ○ A, B a (C) ○ B, C a (D) ○ A, B, C (D) ○ A, B, C Question Nc Digital Elevation data structure A. 7.5-minutes B. 15-minutes C. 30-minutes D. 01-degree Choose the cc (A) ○ A, C a (B) ○ A, B, C 	Ind C only and D only C and D (Correct Answer) Do.62 (Question Id - 37) on Model (DEM) data consist of an array of regularly spaced elevations. USGS DEM products are similar in logical for different geographic coverages and available for units as given below : s s porrect geographic coordinate extent of USGS DEM from the options given below : ind D only C and D (Correct Answer)
Question No Digital Elevatio data structure A. 7.5-minutes B. 15-minutes C. 30-minutes D. 01-degree Choose the co (A) () A, C a	Ind C only and D only C and D (Correct Answer) D.62 (Question Id - 37) on Model (DEM) data consist of an array of regularly spaced elevations. USGS DEM products are similar in logical for different geographic coverages and available for units as given below : s s prrect geographic coordinate extent of USGS DEM from the options given below : ind D only C and D (Correct Answer) ind D only

/ertisol

(D) O inceptisol

Question No.64 (Question Id - 62)

The vertical motion of an aeroplane while passing through cumulus cloud is because of the :

(A) $\bigcirc\;$ approaching jet stream against aeroplane's direction of movement

(B) $\bigcirc\;$ air pressure variation inside the cabin area of aeroplane

(C) $\bigcirc\;$ presence of high moisture content in the atmosphere

(D) $\bigcirc\;$ upward and downward draft in the cloud (Correct Answer)

Question No.65 (Question Id - 8)

Match List-I with List-II and select the correct combination :

	List-I	List-II
Α.	Urbanisation	 when the commuter's belt grows at the cost of the urban core
Β.	Suburbanisation	II. the rate of population loss of the urban core tapers off
C.	Counter-urbanisation	III. when certain settlements grow at the cost of their surrounding countryside
D.	Re-urbanisation	IV. when the population loss of the urban core exceeds the population growth of the commuter's belt

(A) 🔿 A-III, B-II, C-I, D-IV

(B) 🔿 A-II, B-I, C-IV, D-III

(C) O A-III, B-I, C-IV, D-II (Correct Answer)

(D) 🔘 A-III, B-IV, C-II, D-I

Question No.66 (Question Id - 58)

Surveying principles are applied for both two and three-dimensional positionings using different methods. Such surveying methods are designed to give horizontal position of points in the environment for making planimetric maps. The methods are given below :

- A. Traverse
- B. Triangulation
- C. Trilateration

D. Trigonometric

Choose the correct methods of surveying from the options given below :

(A) ○ B, C and D only
 (B) ○ A, C and D only
 (C) ○ A, B and D only
 (D) ○ A, B and C only (Correct Answer)

Question No.67 (Question Id - 6)

The Nearest Neighbour Statistic ranging 'from uniform grid to uniform triangular', in settlement analysis vary in value from :

(A) ○ 0 to 2.149
(B) ○ 1.0 to 2.0
(C) ○ 2.0 to 2.149 (Correct Answer)
(D) ○ 1.0 to 2.149

Question No.68 (Question Id - 21)

A green village type found primarily in Eastern Germany characterized by open fields is called :

(A) O Angerdorf (Correct Answer)

(B) 🔘 Dusseldorf

- (C) 🔘 Haufendorf
- (D) O Marschhufendorf

Question No.69 (Question Id - 3)

Match List-I with List-II and select the correct combination :

List-I	List-II
A. ASEAN	I. Nepal, Bhutan, Maldives
B. CIS	II. China, Brazil, Russia
C. BRICS	III. Belarus, Georgia, Moldova
D. SAFTA	IV. Indonesia, Malaysia, Vietnam

Choose the correct answer from the options given below :

(A) O A-IV, B-III, C-II, D-I (Correct Answer)

(B) ○ A-II, B-I, C-III, D-IV (C) ○ A-I, B-II, C-III, D-IV

(D) O A-II, B-IV, C-I, D-III

Question No.70 (Question Id - 54)

The GPS Positioning accuracy measurement is significant for quantification for the degree of certainty that it is accurate from meters to sub-meters. Accuracy and precision are diagrammactically presented below

(Diagrams		List II	
)	(Description)	
		accuracy and high precision	
B.) II. Low	accuracy and low precision	
		h accuracy and high precision	
D.		n accuracy and low precision	
Choose the entry of	combination of	accuracy and provision from the	an option given below -
		accuracy and precision from the	
	, C - IV, D - II (C C - IV, D - III	orrect Answer)	
(D) 🔿 A - II, B - I,	0 - III, D - IV		
(D) A - II, B - I, Question No.71 (Which one of the fc Census 2011 :	Question Id - 1	9) Indian States and Union Terr	ritories exhibit highest literacy (in descending order) accordir
Question No.71 (Which one of the fo	Question Id - 1	9) Indian States and Union Terr	ritories exhibit highest literacy (in descending order) accordir
Question No.71 (Which one of the fo	Question Id - 19	Indian States and Union Terr	ritories exhibit highest literacy (in descending order) accordir
Question No.71 (Which one of the fo Census 2011 : (A) O Mizoram; K (B) C Kerala; Lal	Question Id - 1 Dilowing order of Cerala; Lakshadv kshadweep; Mi	Indian States and Union Terr veep; Goa zoram; Goa (Correct Answe	
Question No.71 (Which one of the fo Census 2011 : (A) Mizoram; K (B) Kerala; Lal (C) Mizoram; K	Question Id - 1 ollowing order of erala; Lakshadw kshadweep; Mi erala; Goa; Laks	Indian States and Union Terr veep; Goa zoram; Goa (Correct Answe shadweep	
Question No.71 (Which one of the fo Census 2011 : (A) O Mizoram; K	Question Id - 1 ollowing order of erala; Lakshadw kshadweep; Mi erala; Goa; Laks	Indian States and Union Terr veep; Goa zoram; Goa (Correct Answe shadweep	
Question No.71 (Which one of the fo Census 2011 : (A) Mizoram; K (B) Kerala; Lal (C) Mizoram; K (D) Kerala; Miz	Question Id - 1 ollowing order of cerala; Lakshadv kshadweep; Mi cerala; Goa; Laks oram; Goa; Laks	Indian States and Union Terr veep; Goa zoram; Goa (Correct Answe shadweep shadweep	
Question No.71 (Which one of the fo Census 2011 : (A) Mizoram; K (B) Kerala; Lal (C) Mizoram; K (D) Kerala; Miz Question No.72 (Question Id - 1 ollowing order of cerala; Lakshadw kshadweep; Mi cerala; Goa; Laks oram; Goa; Laks	Indian States and Union Terr veep; Goa zoram; Goa (Correct Answe shadweep shadweep 0)	
Question No.71 (Which one of the fo Census 2011 : (A) Mizoram; K (B) Kerala; Lal (C) Mizoram; K (D) Kerala; Miz Question No.72 (Match List-I with, L	Question Id - 1 ollowing order of cerala; Lakshadv kshadweep; Mi cerala; Goa; Laks oram; Goa; Laks Question Id - 1 .ist-II and select	Indian States and Union Terr veep; Goa zoram; Goa (Correct Answe shadweep shadweep	
Question No.71 (Which one of the fo Census 2011 : (A) Mizoram; K (B) Kerala; Lal (C) Mizoram; K (D) Kerala; Miz Question No.72 (Match List-I with, L	Question Id - 1 ollowing order of cerala; Lakshadw kshadweep; Mi cerala; Goa; Laks oram; Goa; Laks Question Id - 1 ist-II and select	Indian States and Union Terr veep; Goa zoram; Goa (Correct Answe shadweep shadweep 0)	ritories exhibit highest literacy (in descending order) accordir er)
Question No.71 (Which one of the fc Census 2011 : (A) Mizoram; K (B) Kerala; Lal (C) Mizoram; K (D) Kerala; Miz Question No.72 (Match List-I with, L List-I (Tribes of India)	Question Id - 1 ollowing order of cerala; Lakshadw kshadweep; Mi cerala; Goa; Laks oram; Goa; Laks Question Id - 1 ist-II and select List-II (States)	Indian States and Union Terr veep; Goa zoram; Goa (Correct Answe shadweep shadweep 0)	
Question No.71 (Which one of the fo Census 2011 : (A) Mizoram; K (B) Kerala; Lal (C) Mizoram; K (D) Kerala; Miz Question No.72 (Match List-I with, L List-I (Tribes of India) A. Bhils	Question Id - 1 ollowing order of cerala; Lakshadw kshadweep; Mi cerala; Goa; Laks oram; Goa; Laks Question Id - 1 ist-II and select List-II (States) I. Meghalaya	Indian States and Union Terr veep; Goa zoram; Goa (Correct Answe shadweep shadweep 0)	
Question No.71 (Which one of the fo Census 2011 : (A) Mizoram; K (B) Kerala; Lal (C) Mizoram; K (D) Kerala; Miz Question No.72 (Match List-I with, L List-I (Tribes of India) A. Bhils B. Tharus	Question Id - 1 illowing order of cerala; Lakshadw kshadweep; Mi cerala; Goa; Laks oram; Goa; Laks Question Id - 1 ist-II and select List-II (States) I. Meghalaya II. Tamil Nadu	Indian States and Union Terr veep; Goa zoram; Goa (Correct Answer shadweep shadweep 0) correct combination :	
Question No.71 (Which one of the fo Census 2011 : (A) Mizoram; K (B) Kerala; Lal (C) Mizoram; K (D) Kerala; Miz Question No.72 (Match List-I with, L List-I (Tribes of India) A. Bhils B. Tharus C. Todas	Question Id - 1 illowing order of cerala; Lakshadw kshadweep; Mi cerala; Goa; Laks oram; Goa; Laks Question Id - 1 ist-II and select List-II (States) I. Meghalaya II. Tamil Nadu III. Madhya Pra	Indian States and Union Terr veep; Goa zoram; Goa (Correct Answer shadweep shadweep 0) correct combination :	
Question No.71 (Which one of the fo Census 2011 : (A) Mizoram; K (B) Kerala; Lal (C) Mizoram; K (D) Kerala; Miz Question No.72 (Match List-I with, L List-I (Tribes of India) A. Bhils B. Tharus	Question Id - 1 illowing order of cerala; Lakshadw kshadweep; Mi cerala; Goa; Laks oram; Goa; Laks Question Id - 1 ist-II and select List-II (States) I. Meghalaya II. Tamil Nadu	Indian States and Union Terr veep; Goa zoram; Goa (Correct Answer shadweep shadweep 0) correct combination :	
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B. hard rock

C. rapids

D. waterfalls

Choose the correct answer from the options given below :

(A) ○ A, C
(B) ○ A, D
(C) ○ B, C
(D) ○ B, D (Correct Answer)

Question No.74 (Question Id - 46) Photogrammetry is defined as "the art and science of making accurate measurements by means of aerial photography". Method 1 : Analog photogrammetry is performed using aerial photograph format size of 9" x 9" print or positive transparency. Method 2: Digital photogrammetry is performed using computer and digital aerial photography. In the light of the above methods, choose the correct answer from the options given below : (A) O Neither methods are superior (B) O Method 1 is superior (C) 🔿 Each method has an approach depending upon analysis goals (Correct Answer) (D) O Method 2 is superior Question No.75 (Question Id - 45) Satellite imagery comprises by unwanted disturbance due to sensing, signal digitization or data recording process. Image noise degrade the true radiometric information by encountering a line drop in a digital imagery. Calculate the DNs values for the pixels occurring in the line drop for the digital imagery given below : 14 20 28 21 22 28 26 19 19 26 26 24 28 21 18 22 16 21 24 26 20 26 22 19 16 22 19 16 Choose the correct DNs values for a line drop for above imagery from the options given below : (A) O DNs Values 26, 21, 24 and 22 (B) O DNs Values 22, 16, 21 and 28 (C) O DNs Values 22, 21, 21 and 24 (Correct Answer) (D) O DNs Values 18, 26, 21 and 24 Question No.76 (Question Id - 24) Migration, which flows from prosperous to less prosperous regions, is known as : (A) O Perverse migration (Correct Answer) (B) O Step Migration (C) O Forced Migration (D) O Reverse Migration Question No.77 (Question Id - 90) In Optically-Stimulated Luminescence (OSL) dating technique the dates are determined based on : (A) O the time lapse of quartz grain's last exposure to sunlight (Correct Answer) (B) \bigcirc the time lapse of quartz grain's first exposure to sunlight (C) O the time lapse since quartz grain's sufficient exposure to sunlight (D) O the quartz grain's exposure to sunlight during pre-quaternary Question No.78 (Question Id - 92) The relative percentage distribution of workers in a region are 50% agricultural, 20% industrial and 30% service sector. The mean annual income of agricultural workers is \Box 0.8 lakhs, industrial workers is \Box 1.5 lakhs and that of service sector workers is 2 lakhs. The mean annual income of total workers will be : (A) 🔘 🗆 1.43 lakhs (B) O 0 4.3 lakhs (C) O 1.3 lakhs (Correct Answer) (D) 🔘 🗆 2.15 lakhs Question No.79 (Question Id - 18) A belief or policy which supports the right of different social and ethnic groups to retain distinctive identities is known as : (A) 🔘 Nationalism (B) O Neoliberalism (C) O Multiculturalism (Correct Answer) (D) O Postmodernism Question No.80 (Question Id - 83) The soils can be classified according the particle size. The Argillite soils contain particles that are : (A) O fine grained (Correct Answer) (B) ○ coarse grained (C) O medium grained (D) ○ very coarse grained Question No.81 (Question Id - 78) In the classification of the ocean sediments, fine and coarse grains that are produced by the weathering and erosion of the rocks

on land are termed as :

 (A) ○ hydrogenous sediments (B) ○ marine sediments (C) ○ terrigenous sediments (Correct Answer) (D) ○ biogenous sediments 				
Question No.82 (Question Id - 33) The international date line is a unanimous agreement that the day begins at longitude of 180° which passes through the Pacific Ocean; but it is not followed while passing through the land. Suppose, if it is 6 a.m. on January 10 on eastern side of the line, what will be the time and day on other side ?				
 (A) ○ 5 a.m. on January 11 (B) ○ 6 p.m. on January 11 (C) ○ 5 p.m. on January 11 (D) ○ 6 a.m. on January 11 (Correct Answer) 				
	I Id - 36) d mapping, three constituting components are data quality, spatial referencing and errors. There are on maps. Which of the following combinations of measures of location errors is correct?			
A. Root mean square error				
B. Accuracy tolerance				
C. Epsilon band				
D. Uncertainty in spatial dat	a			
Choose the correct answer	from the options given below :			
 (A) ○ B, C and D only (B) ○ A, B and C only (C) ○ A, B, C and D (Correct Answer) (D) ○ A, B and D only 				
Question No.84 (Question	ı Id - 74)			
Match List-I with List-II to relate cloud type with its characteristics :				
List - I	List - II			
(Cloud type)	(Cloud character)			
A. Stratus	I. Extensive sheet of cloud, usually precipitating and thick to block out sun			
B. Cumulus	II. Featureless, extensive cloud, just deep enough to produce cloud			
C. Nimbostratus	III. Large, usually showering, having a cirriform character at high levels			
	IV. Scattered, hill shaped upper part with flat base			
Choose the correct answer from the options given below : (A)				
Question No.85 (Question Id - 100) The streams are described according to their relationship with the initial surface upon which they are developed. Accordingly, a stream developed subsequent to the initial surface along the lines of weakness, such as weak strata or faults running along the strikes of the rocks, which carves out new valleys and creates new slopes and flows in the opposite direction to consequent stream is termed as : (A) O resequent stream				
 (A) O recequent stream (B) O consequent stream (C) O obsequent stream (Correct Answer) (D) O subsequent stream 				
Question No.86 (Question Id - 17) Given below are two statements : one is labelled as Assertion A and the other is labelled as Reason R.				
Assertion A :				
	logical feminism examines the connections between women and nature.			
Reason R :				
This philosophy does not include the ways both nature and women are treated by patriarchal society.				
In the light of the above state	ements, choose the most appropriate answer from the options given below :			
 (A) ○ Both A and R are false (B) ○ Both A and R are true and R is the correct explanation of A (C) ○ Both A and R are true but R is not the correct explanation of A (D) ○ A is true but R is false (Correct Answer) 				

Question No.87 (Question Id - 41) Vegetation indices have been developed and modeled for vegetation and biophysical mapping derived from remote sensing data. Vegetation indices provides functionally equivalent information; but some provide unique biophysical information as

l

mentioned below :

- A. Normalized Difference Vegetation Index (NDVI)
- B. Enhanced Vegetation Index (EVI)
- C. Normalized Difference Moisture Index (NDMI)
- D. Normalized Difference Water Index (NDWI)

Choose the **correct** vegetation indices that help to determine the biophysical conditions of vegetation from the options given below :

(A) \bigcirc A, B and C only

(B) OB, C and D only(C) OA and B only

(D) O A, B, C and D (Correct Answer)

Question No.88 (Question Id - 59)

Hypothesis can be formed either in describing events or establishing relations between variables. Hypothesis can be relevant or irrelevant to the research topic. In this context, match the **List - I** with **List - II** given below :

List - I	List - II (Explanation of hypothesis)	
(Kinds of hypothesis)		
A. Working hypothesis	I. Set of two hypotheses which states opposite of null hypothesis	
B. Scientific hypothesis	II. Preliminary assumption about research topic	
C. Alternative hypothesis	III. Statement based on or derived from theoretical/empirical data	
D. Null hypothesis	IV. It is hypothesis of no relationship	

Choose the **correct** answer from the options given below :

(A) ○ A-I, B-III, C-IV, D-II
 (B) ○ A-II, B-III, C-I, D-IV (Correct Answer)

(C) O A-I, B-IV, C-II, D-III

(D) 🔿 A-IV, B-II, C-III, D-I

Question No.89 (Question Id - 73)

The solarimeter measures :

(A) \bigcirc only direct radiation

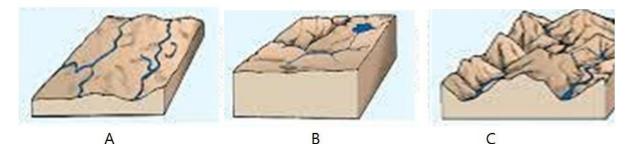
(B) \bigcirc only diffused radiation

(C) O both direct and diffused radiation (Correct Answer)

(D) $\bigcirc\;$ direct, diffused, scattered and reflected radiation

Question No.90 (Question Id - 91)

Interpret the following block diagram in which different stages of landform development is depicted.



Which of the following sequence is the correct representation of the Davisian cycle of landform development?

(A) ○ A, B and C
 (B) ○ B, C and A (Correct Answer)
 (C) ○ C, A and B
 (D) ○ C, B and A

Question No.91 (Question Id - 22)

Given below are two statements : one is labelled as Assertion A and the other is labelled as Reason R.

Assertion A :

Hamlets, Villages, Towns and Cities constitute the basic structural elements of India's Cultural Landscape.

Reason R :

Settlements large and small form a continuum and there is hardly any qualitative difference between them.

In the light of the above statements, choose the ${\it most}$ appropriate answer from the options given below :

(A) $\bigcirc\;$ Both ${\bf A}$ and ${\bf R}$ are false

- (B) O Both A and R are true and R is the correct explanation of A (Correct Answer)
- (C) $\bigcirc~$ Both ${\bf A}$ and ${\bf R}$ are true but ${\bf R}$ is not the correct explanation of ${\bf A}$

(D) \bigcirc **A** is true but **R** is false

Identity the correct position of wilting point in the graph 200 150 Evapor 100 and Rainfall 50 Feb Jan (A) O M (B) 🔿 N (C) O (Correct Answer) (D) 🔿 P Question No.93 (Question Id - 70) In dendrochronology, the complacent tree-ring series arise when the environmental conditions are such that there is : (A) $\bigcirc\;$ adequate moisture supply in growing season (Correct Answer) (B) ○ inadequate moisture supply in growing season $(C) \bigcirc$ very low temperature in growing season (D) O very high temperature in growing season Question No.94 (Question Id - 20) Match List-I with List-II and select correct combination List-I List-II (Regional Planner) (Year of proposed Planning Region in India) A. C.S. Chandrasekhar (13 regions) I. 1964 B. P. Sengupta (7 regions) II. 1965 III. 1968 C. Bhat and Rao (7 regions) D. V. Nath (15 regions) IV. 1972 Choose the correct answer from the options given below : (A) 🔿 A - IV, B - I, C - III, D - II (B) O A - IV, B - III, C - I, D - II (Correct Answer) (C) 🔿 A - III, B - IV, C - II, D - I (D) 🔿 A - IV, B - II, C - I, D - III Question No.95 (Question Id - 81) Which of the following statements are correct about the ectothermic organisms ? A. Regulate their body temperature largely by behavioural means. B. Regulate the body temperature largely by the use of external heat source. C. Have evolved high levels of metabolism. D. They are cold-blooded animals. Choose the correct answer from the options given below (A) O A, B and C only (B) O A, C and D only (C) O B, C and D only (D) O A, B and D only (Correct Answer) Question No.96 (Question Id - 29) 'Jojoba' is an example of : (A) 🔘 Fodder crop (B) 🔘 Fiber crop (C) O Subsistence crop (D) O Bio-diesel crop (Correct Answer) Question No.97 (Question Id - 1) Which one of the following options compares the ability of women and men to participate in economic and political decisionmaking ? (A) O Gender Related Development Index (B) O Gender Empowerment Measure (Correct Answer) (C) O Human Development Index (D) O Reproductive Health Index Question No.98 (Question Id - 79) In ecology, the allochthones means : (A) 🔘 organic carbon which is washed into an area from other areas (Correct Answer) (B) \bigcirc primary production is the main source of organic carbon

(C) O primary production and washed into an area from other areas are the sources of organic carbon

Question No.99 (Question Id - 27)

Which of the following statements are true about the 'Place of Last Residence' introduced by the Indian Census ?

A. 'Place of Birth' data does not capture the return migrants

B. 'Place of Last Residence' data is able to capture additional migration patterns

C. 'Place of Birth' data is not a direct measure of migration

D. 'Place of Last Residence' data is a direct measure of internal migration

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

(A) $\bigcirc\,$ A and B are correct, but C and D are wrong

(B) \bigcirc A, B and C are correct, but D is wrong

(C) $\bigcirc~$ A, B and D are correct, but C is wrong (Correct Answer)

(D) $\bigcirc~$ B, C and D are correct, but A is wrong

Question No.100 (Question Id - 11)

Which of the following aspects marked the beginning of a whole series of urban literature ?

(A) \bigcirc Functional study of towns and cities

(B) $\bigcirc~$ Site and situation of towns and cities (Correct Answer)

(C) \bigcirc Morphology of towns and cities

(D) \bigcirc Hierarchy of towns and cities

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