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3 SEM TDC GGRH (CBCS) C 5

2024

(Nov/Dec)

GEOGRAPHY

(Core)

Paper : C-5

(**Cartography**)

Full Marks : 53

Pass Marks : 21

Time : 3 hours

*The figures in the margin indicate full marks
for the questions*

1. Answer the following as directed : 1×5=5

(a) Name the ancient Greek scholar who is known as the father of all map projections.

(b) 'Graticule' is the network of parallels and _____.

(Fill in the blank)

(c) 'Levelling' is used to find the height of points on the earth surface.

(Write True or False)

(2)

- (d) In cylindrical map projection, the length of all parallels are equal.

(Write True or False)

- (e) In 'plane surveying', the surface of the earth in considered as _____.

(Fill in the blank)

2. Write short notes on the following : $4 \times 3 = 12$

(a) Conical map projection

(b) Geodetic surveying

(c) Open traverse survey

3. What is map projection? Discuss on the choice of map projection with suitable examples. $3 + 9 = 12$

4. What is surveying? Mention the instruments used in plane table surveying. Discuss the 'radiation method' of plane table surveying with suitable diagram. $2 + 2 + 5 + 3 = 12$

(3)

5. What is closed traverse survey? In a prismatic compass survey, the fore bearings and the back bearings of the lines are taken as shown in the table given below. Find the included angles of the traverse : $2 + 10 = 12$

Line	Fore Bearing	Back Bearing
AB	45°15'	225°15'
BC	123°15'	303°15'
CD	181°00'	1°00'
DA	289°30'	109°30'

Or

- What is levelling? Give an account of the different types of levelling with suitable diagram. $2 + 10 = 12$

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3 SEM TDC GGRH (CBCS) C 6

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(Nov/Dec)

GEOGRAPHY

(Core)

Paper : C-6

(Regional Geography of the World)

Full Marks : 80

Pass Marks : 32

Time : 3 hours

*The figures in the margin indicate full marks
for the questions*

1. Answer the following as directed : 1×8=8

(a) Which river is known as the 'Sorrow of China'?

(b) Name the grasslands of Africa.

(c) The Appalachian Mountain is located in Africa/North America/South America.

(Choose the correct answer)

(2)

(d) Which river system runs through the valley in Mesopotamia?

(e) The brown forest soils are known as _____ in Poland.

(Fill in the blank)

(f) Which country has the highest population in the world in 2024?

(g) What is the most important metallic mineral of South-East Asia?

(h) Switzerland is a developed/developing/underdeveloped country.

(Choose the correct answer)

2. Write short notes on any four of the following :
5×4=20

(a) Soils of Asia

(b) Natural vegetation of North America

(c) Impact of industrialization in the underdeveloped countries

(d) Drainage of South-East Asia

(e) Economy of Middle East

(3)

3. Divide Europe into major physiographic regions and describe each one of them in brief. 2+10=12

Or

Divide Africa into different climatic regions and discuss about each of them. 12

4. State the differences among developed, developing and underdeveloped countries. Discuss why mineral resources are important for the development of a country. 6+6=12

Or

What are the mineral resources of USA? How have these mineral resources contributed to the industrialization of the country? 4+8=12

5. What do you mean by population distribution? Discuss the factors influencing the distribution of world population. 2+12=14

Or

"Some countries of the world are over-populated and some are underpopulated." Discuss the statement with suitable examples. 14

6. Discuss the importance of agriculture in the economy of South-East Asia. 14

Or

What is the Mediterranean region? State its climatic significance. Discuss the characteristics of Mediterranean vegetation. 2+4+8=14

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3 SEM TDC GGRH (CBCS) C 7

2024

(Nov/Dec)

GEOGRAPHY

(Core)

Paper : C-7

(Statistical Methods in Geography)

Full Marks : 80

Pass Marks : 32

Time : 3 hours

*The figures in the margin indicate full marks
for the questions*

1. Answer the following as directed : 1×8=8

- (a) What would be the first step after collection of raw material for any statistical analysis?
- (b) A frequency polygon can be obtained by joining the _____ points of upper sides of the adjacent rectangles of a _____ with straight lines.

(Fill in the blanks)

(2)

- (c) The property of the ratio scale is that any two measurements bear the same proportion to each other irrespective of the unit of measurement used.

(Write True or False)

- (d) When is a frequency curve said to be positively skewed?

- (e) Ordinal scale does not depict non-mathematical ideas.

(Write True or False)

- (f) What does it indicate if the value of coefficient of correlation stands at +1 or near +1?

- (g) What is meant by the term 'universe' or 'population' in sampling technique?

- (h) The ____ probability curve is a bell-shaped ____ curve.

(Fill in the blanks)

2. Write brief notes on the following : $4 \times 4 = 16$

- (a) Primary sources of data

- (b) Stratified sampling and its merits

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(Continued)

(3)

- (c) Nominal measurement of scales

- (d) Normal distribution in probability analysis

3. Discuss in detail the importance and significance of statistical methods in geographical studies with suitable examples. 14

Or

What are different sources of data? Describe the components of geographical data matrix with suitable examples. $4+10=14$

4. Define quartile deviation. Mention its merits and demerits. Calculate quartile deviation of the following data set at a river gauge station for a particular year and interpret your result : $2+4+7+1=14$

Peak flood (in cumec)	Frequency of occurrences (in day)
0-2000	80
2000-4000	67
4000-6000	85
6000-8000	74
8000-10000	38
10000-12000	15
12000-14000	6

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(Turn Over)

(4)

Or

What do you mean by coefficient of variation (CV)? Mention its merits and demerits. Calculate coefficient of variation of the following data set and interpret your result :

$$2+4+7+1=14$$

Districts	Annual Average Rainfall (in cm)
A	500
B	240
C	350
D	120
E	85
F	290
G	405
H	80
I	320
J	220
K	150
L	190

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(Continued)

(5)

5. Define mode. How is it calculated for ungrouped data? Mention how it is different from mean. Calculate mode of the following data set : $2+2+2+8=14$

Monthly income (in ₹)	No. of families
10,000-15,000	40
15,000-20,000	38
20,000-25,000	29
25,000-30,000	20
30,000-35,000	23
35,000-40,000	34
40,000-45,000	14
45,000-50,000	12
50,000-55,000	8

Or

What is sampling? Describe random sampling technique. Write in brief about the need of sampling in geographical data analysis. $3+5+6=14$

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(Turn Over)

6. What is simple linear regression? Find out the regression equation of the following data set and draw the regression line : $3+9+2=14$

<i>District Code</i>	<i>HYV seeds (in Qtls) (X)</i>	<i>Yield (in Qtls/ha) (Y)</i>
A-01	20	3.5
B-02	30	7.5
C-03	40	7.0
D-04	50	15.0
E-05	70	11.6
F-06	90	14.5
G-07	100	20.4
H-08	110	22.8
I-09	120	26.2
J-10	130	29.0
