

**NEW**  
**Part-III 3-Tier**  
**2017**

**GEOGRAPHY**

**(Honours)**

**PAPER—VII (Set-1)**

**(PRACTICAL)**

**Full Marks : 100**

**Time : 6 Hours**

*The figures in the right-hand margin indicate full marks.  
Candidates are required to give their answers in their  
own words as far as practicable.*

**Answer all the questions.**

1. (a) Draw a representative profile on the given topographical map and identify the *Break of Slope*. Identify the map number of S<sub>01</sub> Topographical map lying to the east of 73<sup>J</sup>/<sub>6</sub>. 8+2
- (b) Prepare a map to show the broad Physiographic divisions of the region shown in supplied topographical map based on the identified break-of-slope. 10

2. (a) Classify the streams into different orders proposed by Strahler under a selected drainage basin [Not more than 6 km (12 cm) × 6 km (12 cm) size]. Calculate Bifurcation ratio between the drainage orders and interpret the result (Tracing paper to be supplied) 8+4
- (b) Establish the relationship between relief and transport from selected grid of supplied topographical map. (grid to be selected by the examiners) 8
3. (a) Construct suitable Castogram (graphically) to represent the following data. 5
- (b) Prepare a spread sheet in MS Excel to enter the following data and draw suitable castogram with proper annotation. (Print out of the work to be attached with answer script). 4+6

Year	No. of Birth	No. of Death
1961	3500	1615
1971	2700	1830
1981	3200	1100
1991	1750	1200
2001	2200	1422

4. (a) Interpret the weather map under following heads :
- (i) Distribution of Pressure ;
  - (ii) wind direction ;
  - (iii) Interpretation of wind direction in relation to pressure distribution. 5+5+5
- (b) Attempt any *one* of the following (selected by lottery):
- (i) Take the readings from dry bulb and wet bulb thermometer and record it in proper tabular form. Calculate relative humidity of air with the help of humidity chart. 5
- Or
- (ii) Record readings from thermometer in proper table and calculate the atmospheric pressure in mb. with necessary temperature correction. 5
5. (a) Prepare a survey schedule for collecting data on any of the environmental problems of your locality mentioning *two* objectives of your enquiry [At least *ten* questions addressing the problem and objectives] 5
- (b) Attempt any *one* of the following (To be selected by lottery) :
- (i) Estimate pH of the given soil sample with the help of soil kit. Define pH. 7+3

Or

- (ii) Classify texture of the given soil sample under four classes (three sieves). Prepare a table to show distribution of texture.

6. Practical Note Book and Viva-voce.

5+5

[Please follow the instructions on the practical note book mentioned in syllabus]

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**NEW**  
**Part-III 3-Tier**  
**2017**

**GEOGRAPHY**  
**(Honours)**  
**PAPER—VII (Set-2)**  
**(PRACTICAL)**

*Full Marks : 100*

*Time : 6 Hours*

*The figures in the right-hand margin indicate full marks.*  
*Candidates are required to give their answers in their own words as far as practicable.*

**Answer all the questions.**

- 1. The latitude and longitude of a point at Digha is  $21^{\circ}30'N$  and  $87^{\circ}30'E$ . It lies in the sheet no 73 ( $20^{\circ}N$  to  $24^{\circ}N$  and  $84^{\circ}E$  to  $88^{\circ}E$ ):**
- (a) Find out the topographical sheet number showing this very point on :**
- (i)  $1^{\circ} \times 1^{\circ}$  sheet ;**
- (ii)  $15' \times 15'$  sheet ;**

**2+2**

*(Turn Over)*

(b) Find out the R. F. of the following topographical sheets :

(i) 54 ;

(ii) 54D ;

(iii)  $54 \frac{D}{SW}$  ;

(iv)  $54 \frac{D}{16}$  .

1×4

(c) Draw superimposed, projected and composite profiles (3 serial sections) on 5'×5' grid (selected by examiners) from the given Indian topographical map of plateau region and identify the different topographic characteristics of the given region. 9+3

2. (a) Identify the different orders of stream after Strahler from the drainage basin (To be identified by the examiners) from the given topographical map. (Area of the basin will not be more than 6 km × 6km). Calculate the bifurcation ratio between the stream orders. 6+4

(b) Prepare Shortest Path matrix for different nodes in the given map and find out the most accessible node with the help of Shimble Index and interpret. 5+3+2

5+3+2

3. Draw suitable diagram graphically as well as in MS-Excell Spread Sheet. (Print out of computer work is to be attached with answer script)

Average Age (Yr)	3	15	27	39	51
Male	1386	1727	1681	1397	1180
Female	1403	1682	1728	1347	191

5+10

4. (a) Draw a climograph on the basis of the given data. Also interpret and identify the climatic type.

7+2+1

Months	J	F	M	A	M	J	J	A	S	O	N	D
Wet Bulb Temp(°F)	32.4	36.8	42.5	30.1	62.2	68.6	72.1	68.7	67.0	64.9	52.4	38.1
Relative Humidity (%)	79	69	65	57	45	55	55	42	55	45	45	52

- (b) Selection by lottery (any one) :

- (i) Take the readings from dry bulb and wet bulb thermometer and record it in proper tabular form. Calculate Relative Humidity with the help of R-H chart. What do you mean by Relative Humidity?

8+2

Or

- (ii) Record readings from barometer and determine atmospheric pressure in mb at that time after necessary temperature correction. Why is mercury used in barometer?

7+3

5. (a) Selection by lottery :

- (i) Estimate pH of given soil sample with the help of soil kit. State the necessity of estimating pH.

7+3

Or

- (ii) Classify texture of the given soil sample under four classes (using three sieves). Prepare a table to show the distribution of texture.

10

- (b) Construct a survey schedule for collecting data on a selective environmental problem of your locality. Name the problem and mention atleast *two* objectives. At least *ten* questions are to be set addressing the problem and objectives.

5

6. Practical Note Book and Viva-Voce

5+5

[Please follow the instruction on the practical note book mentioned in the syllabus]

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**NEW**  
**Part-III 3-Tier**  
**2017**

**GEOGRAPHY**

**(Honours)**

**PAPER—VII (Set-3)**

**(PRACTICAL)**

*Full Marks : 100*

*Time : 6 Hours*

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*Candidates are required to give their answers in their own words as far as practicable.*

*Answer all the questions.*

1. Write the topographical sheet no. and scale of the following : 4+4

(i) toposheet falls to the east of 63k

(ii) toposheet falls to the north of 72<sup>k</sup>/<sub>NE</sub>

*(Turn Over)*

(iii) toposheet falls to the west of 73  $\frac{1}{7}$

(iv) toposheet falls to the south of 78  $\frac{M}{12/3}$

(b) Identify a basin not more than 6 km (12 cm)  $\times$  6 km (12 cm) (to be identified by the examiners) and divide the basin into broad physiographic zones. 12

2. (a) Divide drainage basin in different slope zone using Wentworth's method and interpret the diagram. 8+2

(b) Calculate Shimbel index through shortest path analysis of the given transport network. Also identify the central location. 8+2

3. Draw suitable diagram both graphically by hands and by the use of computer to show the status of workers. Attach the printout sheet with your answerscript and interpret the diagram. 5+10

District	Categories of workers	
	Main Workers	Marginal Workers
Almora	205951	87321
Bageswar	85922	32993
Champawat	56199	33981
Nainital	222669	57203
Pithoragarh	123987	74680
Udamsingth Nagar	298576	94772

4. (a) Interpret the weathermap on the following heads :

(i) Nature and type of cloud cover. 5

(ii) Wind direction. 3

(iii) Identify the season stating the reasons. 2

(b) Selection by lottery (any one) :

(i) Read the dry bulb and wet bulb temperature and record them in proper table. Calculate the relative humidity of air with the help of humidity chart. Why is the wet bulb temperature usually lower than dry bulb temperature? 8+2

- (ii) Record the reading from Barometer in an appropriate table and calculate the atmospheric pressure in mb. at the time with necessary height correction. What do you mean by temperature correction of barometer reading ? 8+2

5. (a) Selection by lottery (any one) :

- (i) Measure the pH value of the soil from the supplied sample with the help of the soil kit. 8

- (ii) Identify the soil texture from the supplied sample with the help of soil sieve set. Atleast four textural classes (3 sieves) are to be used. Show the result with proper table. 8

- (b) Prepare a questionnaire with 10 questions on any of the problem, you identified in your locality. Mention the problems and state atleast two major objectives. All the questions are to be strictly linked with the stated objectives. 2+5

6. Laboratory Note Book and Viva-voce. 5+5

[Please follow the instructions on the practical note book mentioned in syllabus]