2022

GEOGRAPHY (Honours)

Paper Code : DC - 13B

[CBCS]

(SET - 1)

Full Marks : 15 Time : One and Half Hours

The figures in the margin indicate full marks.

1. The annual peak flood discharge recorded in River Mayurakshi at Tilpara Barrage. Construct the probability curve (Weibull's method) with necessary calculation based on the given data. (Use any graph paper) 5

Year	Annual Peak Discharge in Cumec.	Rank
2000	8978.6	1
1978	6988.6	2
2004	5686.4	3
1986	2612.5	4
2006	2212.3	5
1993	1273.5	6
1992	1047.1	7
2007	962.2	8
1997	912.9	9
1996	848.2	10

P.T.O.

2. Determine the flood years based on Annual flood level data given below and plot accordingly. 2+5=7

YEAR	Annual Highest Flood Level (m)	Remark
1978	24.38	Warning Level=22.5m
1979	22.85	
1980	22.22	
1981	23.05	Danger Level=23.20m
1982	22.04	
1983	23.42	
1984	19.96	Highest flood level=23.80m
1985	22	
1986	23.91	
1987	24.51	
1988	22.88	
1989	22.32	
1990	22.89	
1991	21.25	
1992	23.64	

3. Laboratory Note Book and Viva-voce. 1+2=3

UG/6th Sem (H)/Pr/22/(CBCS)

2022

GEOGRAPHY (Honours)

Paper Code : DC - 14B

[CBCS]

(SET - 1)

Full Marks : 15 Time: One and Half Hours

The figures in the margin indicate full marks.

1. A random sample of 400 students from colleges in India were classified according to the subjects studied and foreign languages known as follows :

Subjects studied by students	Number of Students Knowing other foreign language apart from English			
	French	Mandarin	Russian	TOTAL
English	87	61	42	190
Political Science	58	89	63	210
TOTAL	145	150	105	400

Test whether the two attributes, subjects studied and foreign languages known are associated or not (Given $X^2_{.01}$=9.21 for 2 degree of freedom). 7

2. Suppose that a random sample size 20, drawn from a normal population has mean 4.2 and standard deviation 6.1. Can it be said that the sample was drawn from a

P.T.O.

normal population with mean 2.5 at 5% level of confidence while applying Z test? [given that $\alpha 0.05=1.96$] 5

3. Laboratory Note Book and Viva-voce. 1+2=3

2022

GEOGRAPHY (Honours)

Paper Code : DSE - 3B

(Applied Geomorphology / Human Geography)

[CBCS]

(SET - 1)

Full Marks : 15 Time : One and Half Hours

The figures in the margin indicate full marks.

Applied Geomorphology

Answer *all* the questions.

1. Make an area-height relation using percentage hypsometric curve method from the given data and state its stage in cycle of erosion. 6+1=7

Height (m.)	<100	100-200	200-300	300-400	400-500	500-600	600-700	>700
Area (km^2)	220	180	70	40	20	10	5	1

2. What is meant by geomorphological map? State the uses of it. Draw the conventional sign of a tidal channel used in a SOI toposheet. 2+2+1=5

3. Laboratory Note Book and Viva-voce. 1+2=3

Or,

Human Geography

Answer *all* the questions.

1. Following table shows the population and distance (in km) of three urban centre.

Urban Centre	A (Distance)	B (Distance)	C (Distance)
A population 100000		80 km	40 km
B population 75000	80 km		25 km
C population 60000	40 km	25 km	

Calculate the population potential of each centre and interpret the significance of the derived result. 7+1=8

2. Make a short discussion on significance of Human Development Index (HDI). What is meant by population mean centre? 2+2=4

3. Laboratory Note Book and Viva-voce. 1+2=3