

2023

GEOGRAPHY — HONOURS — PRACTICAL

Paper : CC-10P

(Soil and Biogeography)

Full Marks : 30

The figures in the margin indicate full marks.

SET-I

1. Draw a time series graph to represent the count of Asiatic lion and analyse the trend by three years moving averages. Interpret the trend. 3+6+1

Table - 1

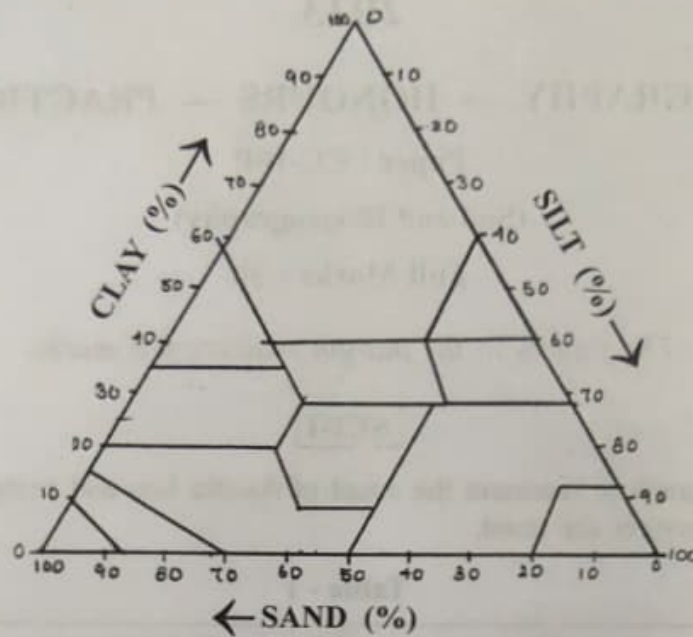
Year	Number
2009	398
2010	411
2011	433
2012	450
2013	482
2014	504
2015	523
2016	536
2017	556
2018	584
2019	623
2020	674

2. On the basis of the following data, prepare a ternary diagram and interpret the soil texture. The given ternary diagram may be used as a guideline (Figure 1). 5+2

Table - 2

Sl. No.	C.D. Block	Sand (%)	Silt (%)	Clay (%)
1	Arambag	24.2	61.9	13.1
2	Serampore	22.0	60.0	18.0
3	Pandua	59.5	31.5	9.0

Please Turn Over



(Figure 1)

3. Determine soil pH or soil salinity from the sample given. (Lottery to be done for pH and salinity) 8
4. Viva voce based on Laboratory Notebook. 5

2023**GEOGRAPHY — HONOURS — PRACTICAL****Paper : CC-10P****(Soil and Biogeography)****Full Marks : 30***The figures in the margin indicate full marks.***SET-II**

1. Table I shows the number of livestock depredations by leopards inside the villages of Binsar wildlife Sanctuary, India. Draw a time series graph and analyse the trend by four years moving average method. Interpret the trend. 3+6+1

Table - 1

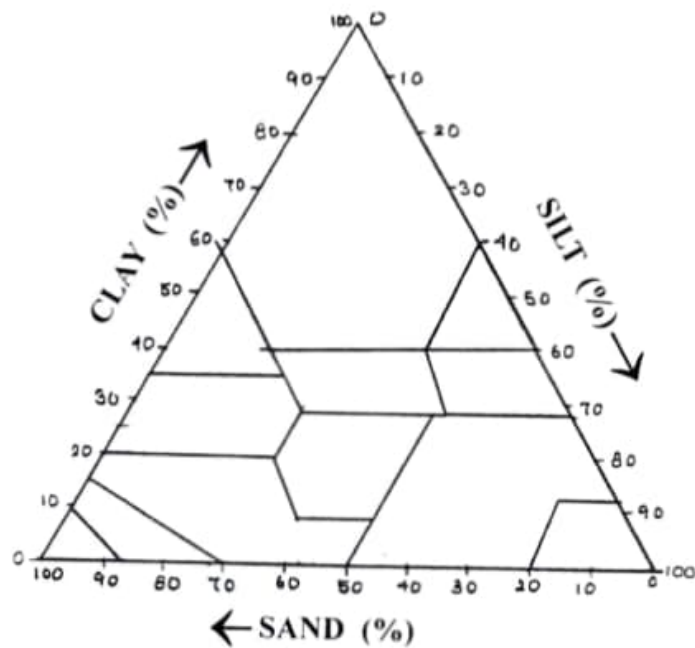
Year	Total Number
1992	109
1993	83
1994	94
1995	127
1996	135
1997	172
1998	118
1999	141
2000	80
2001	129
2002	138
2003	136

2. On the basis of the following data, prepare a ternary diagram and interpret the soil texture. The given ternary diagram may be used as a guideline (Figure 1). 5+2

Table - 2

Sl. No.	Borehole	Depth (f)	Sand (%)	Silt (%)	Clay (%)
1	A	15	20.0	42.0	38.0
2	B	18	92.0	5.0	3.0
3	C	22	40.0	42.0	15.0

Please Turn Over



(Figure 1)

3. Determine soil pH or soil salinity from the sample given. (Lottery to be done for pH and salinity) 8
4. Viva voce based on Laboratory Notebook. 5

2023

GEOGRAPHY — HONOURS — PRACTICAL**Paper : CC-10P****(Soil and Biogeography)****Full Marks : 30***The figures in the margin indicate full marks.***SET-III**

1. Table 1 shows the area of tropical primary forest loss by year (hectares), India. Draw a time series graph and analyse the trend by three years moving average method. Interpret the trend. 3+6+1

Table - 1

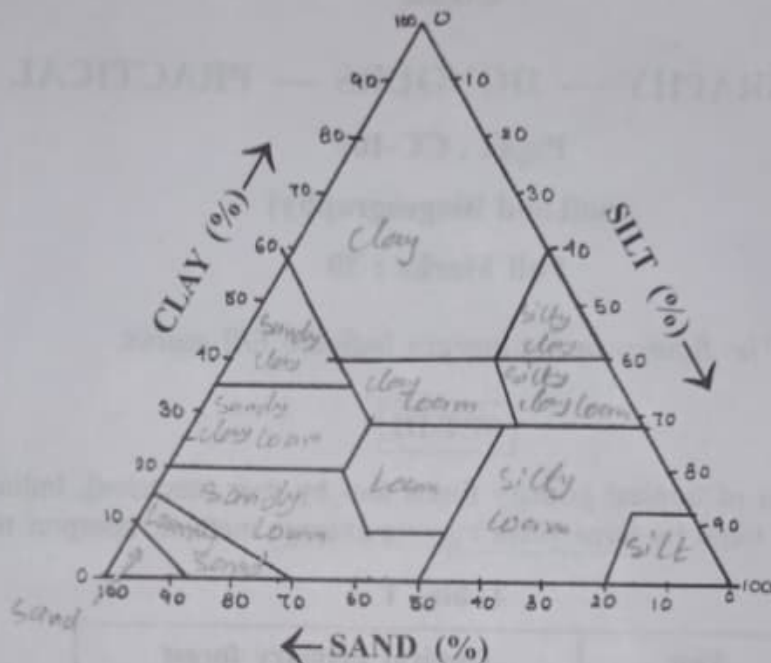
Year	Tropical primary forest loss by year (Hectares)
2009	17,112
2010	11,361
2011	16,287
2012	18,804
2013	14,399
2014	21,942
2015	20,997
2016	30,936
2017	29,563
2018	19,310
2019	17,348
2020	20,809

2. On the basis of following data, prepare a ternary diagram and interpret the soil texture. The given ternary diagram may be used as a guideline (Figure 1). 5+2

Table - 2

Sl. No.	Borehole	Depth (f)	Sand (%)	Silt (%)	Clay (%)
1	A	12	20.0	45.0	35.0
2	B	10	90.0	7.0	3.0
3	C	20	40.0	41.0	16.0

Please Turn Over



(Figure 1)

3. Determine soil pH or soil salinity from the sample given. (Lottery to be done for pH and salinity)

8

4. Viva voce based on Laboratory Notebook.

5