

2019

Part – II

DISASTER MANAGEMENT

(General)

Paper – III

(Practical)

Full Marks – 100

Time : 6 Hours

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

Answer **all** questions.

1. (a) Write the importance of First Aids. 2  
(b) Write the steps of first aids for dog bite and  
bone fracture. 4+4
2. Estimate the amount of free CO<sub>2</sub> (carbon dioxide)  
in supplied water sample. 10
3. Identify the five given specimens of rocks  
mentioning two identifying characteristics of each.  
2×5
4. Classify textural units of the given soil sample.  
Plot the soil texture of the sample in a ternary  
diagram. Identify and interpret the textural class  
of the soil sample. 10+7+1+2

P.T.O.

5. Calculate average rainfall occurrence of drought and percentage of drought frequency in respect of the following statistics as per criteria laid down by the Indian Meteorological Department. Represent the given data with the help of suitable cartographic technique and interpret it.

4+1+1+2+2

Year	Annual Rainfall in mm	
	P	Q
1981	1015.3	1560.5
1982	1526.7	2095.0
1983	1650.5	1765.6
1984	1320.5	1543.5
1985	1225.0	1895.6
1986	1775.8	2470.5
1987	1350.5	1485.4
1988	1165.5	1490.6
1989	1758.4	1962.5
1990	1570.1	1905.3
1991	1050.8	2355.6
1992	1125.4	1850.2
1993	1455.6	1725.3
1994	1130.5	1490.6
1995	1495.2	1635.3
1996	1250.2	1550.2
1997	1235.6	2105.3
1998	1598.6	2067.7
1999	1530.0	1380.4

Year	Annual Rainfall in mm	
	P	Q
2000	1935.2	2256.3
2001	1675.6	2635.0
2002	1005.8	1385.9
2003	1539.2	2140.5
2004	1975.0	1462.2
2005	1345.3	1775.7
2006	1426.4	1413.2
2007	1751.0	2034.3
2008	895.5	1795.2
2009	672.6	1672.0
2010	875.8	1775.2

6. Delineate the Effective Area from the given three consecutive airphotos with the help of mirror stereoscope and show the relief and drainage pattern. Interpret it. 4+4+2
7. Field Report and Viva-voce. 15+5
8. Laboratory Note Book and Viva-voce. 5+5