

BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI
(END SEMESTER EXAMINATION)

CLASS: MSc/IMSc
BRANCH: MGI/PHYSICS

SEMESTER : III/IX
SESSION : MO/18

SUBJECT: SGI3005 GEOINFORMATICS IN DISASTER MANAGEMENT
TIME: 3.00 HOURS

FULL MARKS: 60

INSTRUCTIONS:

1. The question paper contains 7 questions each of 12 marks and total 84 marks.
 2. Candidates may attempt any 5 questions maximum of 60 marks.
 3. The missing data, if any, may be assumed suitably.
 4. Before attempting the question paper, be sure that you have got the correct question paper.
 5. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall.
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- Q.1(a) "Hazard is different from disaster". Justify this statement. [5]
Q.1(b) Describe different classes of natural disasters with proper example. [7]
- Q.2(a) What are the different stages of disaster management? Explain in brief [6]
Q.2(b) Name two international agencies involved in disaster management. Describe administrative structure of disaster management in India. [6]
- Q.3(a) How can Earthquake be understood as a geological hazard? Discuss in light of theory of Plate Tectonics. [7]
Q.3(b) Describe various mining hazards which may lead to disasters. [5]
- Q.4(a) How does river flood take place? Describe various types of this Hydro-meteorological hazard. [7]
Q.4(b) What is understood by Cloud Burst? Discuss with examples from India. [5]
- Q.5(a) What are the causes of Desertification? [6]
Q.5(b) Write short note on monitoring Air Pollution using Geoinformatics [6]
- Q.6(a) What are Forest Fires? How can remote sensing be helpful in its detection? [6]
Q.6(b) Explain the role of Geoinformatics in Flood Management. [6]
- Q.7(a) Write the probable causes of flood in the Indo-Gangetic Plains [6]
Q.7(b) Write a note on Landslides in Himalayan region [6]

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