

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

CLASS: MSC.
BRANCH: GEOINFORMATICS

SEMESTER: II
SESSION: SP/19

SUBJECT: GI514 GEOINFORMATICS FOR CLIMATE CHANGE AND EIA

TIME: 3 Hours

FULL MARKS: 50

INSTRUCTIONS:

1. The question paper contains 5 questions each of 10 marks and total 50 marks.
 2. Attempt all questions.
 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) Write the difference between weather and climate. [4]
Q.1(b) Explain the different sub-fields of climatology. [6]
- Q.2(a) Explain different types of drought. [5]
Q.2(b) Evaluate different types of Remote Sensing based drought indices. [5]
- Q.3(a) Write the role of remote sensing in surface water and snow cover monitoring. [5]
Q.3(b) Are thermal snow indices superior to optical snow indices for performing delineation of snow cover? [5]
Give justification.
- Q.4(a) Explain with a diagram the atmospheric structure. [5]
Q.4(b) What are Green House Gases? In what way RS is useful for monitoring and modeling of Global Warming? [5]
- Q.5(a) Explain the decision tree technique of EIA with the help of one suitable example. [5]
Q.5(b) Write the tasks and activities of IPCC. [5]

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