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

CLASS: M.Tech/Pre-PhD SEMESTER: I
BRANCH: Remote Sensing SESSION: MO23

SUBJECT: RS517 REMOTE SENSING IN CLIMATE CHANGE AND ENVIRONMENTAL IMPACT ASSESSMENT

TIME: 3 Hours FULL MARKS: 50

INSTRUCTIONS:

1. The question paper contains 5 questions each of 10 marks and total 50 marks.

Q.5(b) Explain the objectives and functional mandates of Kyoto protocol.

- 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.

Q.1(a) What is meant by weather and climate? How do they differ from each other? [CO1;BL 2] What are greenhouse gases (GHGs). How do natural and anthropogenic causes lead to rise in GHG and [5] Q.1(b) Global warming. [CO1; BL 3] Q.2(a) How are plants affected by changes in carbon dioxide levels in the atmosphere? [CO2; BL 2] [3] Q.2(b) Define Drought? Name two different drought monitoring techniques and explain one of the different [3] drought monitoring techniques in detail. [CO2; BL 2] Discuss the present scenario between increasing population and changing climate effect on Q.2(c) [4] agriculture. [CO2;BL3] Q.3(a) What is meant by ELA and Mass Balance of a Glacier? Elaborate. [CO3; BL 2] [5] Q.3(b) Describe major types of glaciers found globally. How can glacier health be significant to indicate [5] climate change? [CO3; BL 3] Q.4(a) What is the impact assessment? Why do we need EIA? [CO4; BL 2] [5] Q.4(b) What are the important components of EIA? Write down the details of it. [CO4; BL 3] [5] Q.5(a) In context of climate change, what is understood by UNFCC? [CO5; BL 3] [5]

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[CO5; BL 4]