

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

CLASS: MTECH
BRANCH: ESE

SEMESTER : II
SESSION : SP/2023

SUBJECT: CE563 CLIMATE CHANGE AND ADAPTATION

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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		CO	BL
Q.1(a)	Explain the concept of energy budget and laws of solar insolation	[5] 1	3
Q.1(b)	Appraise the role of Latitude, Altitude, Pressure, Ocean currents, and distance from sea affects in global climate	[5] 1	5
Q.2(a)	Elaborate the indicators of climate change	[5] 2	3
Q.2(b)	Explain the concept of Greenhouse effect using a suitable diagram	[5] 2	3
Q.3(a)	Analyze the concept of climatic vulnerability in Agricultural sector.	[5] 3	4
Q.3(b)	How will Heat stress affect the semi-arid regions of India?	[5] 3	5
Q.4(a)	What are the adaptive strategies and approaches to manage forest ecosystems	[5] 4	3
Q.4(b)	Compare Positive Adaptive coping and Maladaptive coping strategies	[5] 4	3
Q.5(a)	What are the outcomes of COP27 meetings under Marakeck Partnership?	[5] 5	2
Q.5(b)	What are the targets set under Montreal Protocol	[5] 5	2

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