Roll No…….. **Total No. of Printed Pages: [01]**
Total No. of Questions: [09]

B. Tech. (Civil Engg.) (Semester: 3rd)
CIVIL ENGINEERING- SOCIETAL & GLOBAL IMPACT
Subject Code: BHSMC0-022
Paper ID: [19110706]

Time: 03 Hours **Maximum Marks: 60**
Instruction for candidates:

1. Section A is compulsory. It consists of 10 parts of two marks each.
2. Section B consist of 5 questions of 5 marks each. The student has to attempt any 4 questions out of it.
3. Section C consist of 3 questions of 10 marks each. The student has to attempt any 2 questions.

Section – A **(2 marks each)**

Q1. Attempt the following:
   a) Write a short note on Energy Conservation Building Code (ECBC).
   b) Write a short note on Global Warming?
   c) What you mean by Environmental Impact Analysis (EIA).
   d) How flood control system in dam's work. Explain?
   e) Write a short note on solid waste management.
   f) What you mean by Global warming? Write the reasons.
   g) Write a note on various innovations for ensuring sustainability.
   h) What you mean by GDP? What is the role of civil engineering in the growth of it?
   i) What you mean by sustainability in construction works. How it achieved.
   j) How much awareness is needed regarding various codes and standards for infrastructure development.

Section-B **(5 marks each)**

Q2. Give points in the favour and in against of river interlinking projects.
Q3. Explain environmental clearance procedure in India.
Q4. What are the different causes of global warming? How it can be reduced?
Q5. Explain GIS and applications for monitoring systems.
Q6. Write note on recent civil engineering breakthroughs and innovations.

Section-C **(10 marks each)**

Q7. What is carbon footprint? How carbon footprint of buildings can be reduced?
Q8. What is 'Potable Water'? What are the desired qualities of Potable Water? Describe how wastewater from city sewer system is treated before discharging to a final point of discharge
Q9. Discuss in detail the contribution of civil engineering to GDP & EMPLOYMENT.