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Total No. of Questions: [09]

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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.