### Social Aspects of Engineering: Paper-II

**Time:** 3 Hours / **Maximum Marks:** 200 / **Total Pages:** 32

<table>
<thead>
<tr>
<th>PART-A</th>
<th>PART-B</th>
<th>PART-C</th>
<th><strong>Grand Total</strong></th>
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Note: Attempt all the twenty questions. Each question carries 2 marks. Answer should not exceed 15 words.

1. Define Gross National Product (GNP).

2. What do you understand by Unemployment?

3. When was World Trade Organisation (WTO) established? What is the full form of ISO?
4 What does "BOT" stands for?

5 What is PPP?

6 Name two scientists or engineers who have been awarded "Bharat Ratna" by Govt. of India.
7 What is Desert Module Technology TM?

8 What do you understand by wind power generation?

9 What are the common components of a rainwater harvesting system?
10 Define Leadership.

11 What is Cost-Benefit ratio?

12 Define 'PERT'.
13 What do you understand by water pollution?

14 In which year the Environmental Protection Act was introduced in India?

15 Name major gaseous air pollutants released by automobiles.
16. What is the use of bag filters?

17. What do you understand by Carbon footprint?

18. Write full form of PMGSY.
19 What does Technology Assessment mean?

20 What does ICT stands for?
Note: Attempt all the twelve questions. Each question carries 5 marks. Answer should not exceed 50 words.

21 Discuss the importance of ISO Certification for an Industry.

22 Discuss the rationale of Right to Information Act.
23 "Sand dune stabilisation involves multiple measures". Explain such measures.

24 What is deforestation? Explain its negative effects on environment.
25 What is disaster management? How it is carried out?

26 Describe the advantages of Critical Path Method (C.P.M.).
27 Explain the concept of Conflict Management.

28 Discuss three major challenges in setting up a refinery cum petrochemical complex in Rajasthan.
29  Mention the environmental problems created by Calcereous Stone Industry.

30  What do you understand by Green Technology? Explain.
31. Write a note on "Birth and growth of IITs in India". Which is the first IIT established in Rajasthan?

32. Write a note on "ISRO". Who is known as the father of India's space programme? Name the latest satellite launched by ISRO and the date of its launch.
PART - C

Marks : 100

Note: Attempt any 5 questions. Each question carries 20 marks. Answer should not exceed 200 words.

33 Discuss the role of social, economic, scientific and technological factors in the process of development of an economy. Explain with examples.
What is the existing situation of technology being propagated for rural areas? How it can be improved?
Highlight the major problems the rural industries are facing in Rajasthan. Suggest some solutions for these highlighted problems.
Name the sources of Radioactive waste. Describe briefly the methods for the disposal of high and low level radioactive wastes.
Describe the formation and release of air pollutants by coal based thermal power plants. Describe briefly the pollution control strategies adopted by these plants.
38 Explain with example how a project can be monitored by SAP or any other software.
Discuss 5 'S' theory in detail.