

Please check that this question paper contains 9 questions and 2 printed pages within first ten minutes.

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[Total No. of Questions: 09]

12 JUL 2022

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Uni. Roll No.

Program: B.Tech. EE

Semester: 3

Name of Subject: Education, Technology and Society

Subject Code: HSMEE-101

Paper ID: 16063

Time Allowed: 03 Hours

Max. Marks: 60

NOTE:

- 1) Parts A and B are compulsory
- 2) Part-C has Two Questions Q8 and Q9. Both are compulsory, but with internal choice
- 3) Any missing data may be assumed appropriately

Part – A

[Marks: 02 each]

Q1.

- a) How education help the people to address environmental issues.
- b) Recall one example of emotional intelligence.
- c) Identify the major resources for sustainable development.
- d) Summarize the responsibilities of Central Electricity Authority.
- e) Distinguish microgrid and grid.
- f) Estimate the aggregate technical and commercial losses with support of mathematical expressions.

Part – B

[Marks: 04 each]

- Q2. Identify the main reasons for power theft.
- Q3. Illustrate the implications of electrical engineering on society.
- Q4. Compare Gurukul system of education with ICT driven education.
- Q5. Examine the electrical safety precautions required at commercial places.
- Q6. Discuss the working principle of Photovoltaic cell.
- Q7. Analyze the significance of information technology in the field of electrical engineering.

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Part-- C

[Marks: 12 each]

Q8. Explain the role of education in Technology advancement.

OR

Identify certain strategies by which air pollutants can be reduced being generated by the power plants.

Q9. Discuss the hybrid energy systems and how it can be improvised for the development of hybrid vehicles.

OR

Examine the different controlling methods of power theft.
