

[Total No. of Questions - 9] [Total No. of Printed Pages - 2]
(2125)

15026

**B. Tech 1st / 2nd Semester Examination
Science Technology & Society (OS)**

HU-1002

Time : 3 Hours

Max. Marks : 100

The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.

Note : Attempt five questions in all, selecting one question each from Section A, B, C & D. Section E (question 9) is compulsory.

SECTION - A

1. "Technology growth has a perfect relationship with economic growth". Comment. (20)
2. Explain the evolution of technology from ancient to medieval to modern time and its impact on industrial revolution. (20)

SECTION - B

3. Discuss the social and human critiques of technology. (20)
4. Explain the effect of rapid technological growth on the natural resources. Give the advantages and disadvantages. (20)

SECTION - C

5. Write in detail the role of technology in development of a nation. Also provide its positive and negative aspects. (20)
6. What is assembly line production? List advantages and disadvantages of assembly line production. Give a few examples where assembly line production changed the production scenario. (20)

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SECTION - D

7. Write a comprehensive note on industrial hazards and safety. (20)
8. Write in detail about the social and ethical responsibilities of engineers. Also provide the codes of professional ethics. (20)

SECTION - E

9. Write short notes on following:
 - (a) Benefits of information and communication technology.
 - (b) Basic difference between science and technology.
 - (c) Carbon credit.
 - (d) Importance of Factories act.
 - (e) Schumacher movement.
 - (f) Problems in man machine interactions.
 - (g) Safety regulations.
 - (h) Report of the club of Rome.
 - (i) Nuclear threats.
 - (j) Noise pollutions. (2×10=20)