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B.M.S. College of Engineering, Bengaluru-560019

Autonomous Institute Affiliated to VTU

February / March 2023 Semester End Main Examinations

Programme: B.E.

Semester: V

Branch: Industrial Engineering and Management

Duration: 3 hrs.

Course Code: 20IM5DETEM

Max Marks: 100

Course: Technology Management

Date: 07.03.2023

Instructions: 1. Answer any FIVE full questions, choosing one full question from each unit.
2. Missing data, if any, may be suitably assumed.

UNIT - I

| | | |
|---|---|----|
| 1 | a) With the help of a block diagram, explain the constituents of a technology | 10 |
| | b) With suitable example, explain the concept of invention | 10 |

OR

| | | |
|---|---|----|
| 2 | a) Describe the technologies embodied in a passenger car. | 10 |
| | b) State some major technology elements of any five emerging technologies with suitable examples. | 10 |

UNIT - II

| | | |
|---|---|----|
| 3 | a) Explain the levels of visualizing economy of scale. | 10 |
| | b) Explain the main features of a competitive technology. | 10 |

OR

| | | |
|---|---|----|
| 4 | a) In what forms, the technology is marketable? List and explain those forms. | 10 |
| | b) The assessment of the business position contains three major tasks. Elaborate on this. | 10 |

UNIT - III

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|---|---|----|
| 5 | a) State the objectives of the technology assessment. | 10 |
| | b) Briefly explain any four techniques used for technology forecasting. | 10 |

UNIT - IV

| | | |
|---|--|----|
| 6 | a) List and explain the stages of factory automation. | 10 |
| | b) Clark distinguishes five stages in the process of technological change. List and explain those five stages. | 10 |

Important Note: Completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages. Revealing of identification, appeal to evaluator will be treated as malpractice.

UNIT - V

7 a) Discuss the decision factors which a firm needs to consider before committing itself to a new technology. **10**

b) Explain how product growth can be achieved by penetrating into new market. **10**

B.M.S.C.E. - ODD SEM 2022-23