

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

Autonomous Institute Affiliated to VTU

February / March 2023 Semester End Main Examinations

Programme: B.E.

Branch: Industrial Engineering and Management

Course Code: 20IM5DETEM

Course: Technology Management

Semester: V

Duration: 3 hrs.

Max Marks: 100

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

- 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**

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