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Reg No.: \_\_\_\_\_

Name: \_\_\_\_\_

**APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY**  
B.Tech Degree S8 (R,S) / S8 (PT) (R) Examination May 2024 (2019 Scheme)

**Course Code: MET466**

**Course Name: TECHNOLOGY MANAGEMENT**

**Duration: 3 Hours**

**Max. Marks: 100**

**PART A**

*Answer all questions, each carries 3 marks.*

Marks

- 1 List out some effects of technological changes in recent times, due to global competition in industrial sector. (3)
- 2 What is Industry 4.0? List the three major milestones in industrial development prior to it. (3)
- 3 What is 'Technology acquisition'? (3)
- 4 Explain 'technoware' in Technology acquisition. (3)
- 5 List and explain three major needs of an organisation for a technology strategy. (3)
- 6 Name three areas where government approval is required for technology transfer from abroad. (3)
- 7 List the types of intellectual properties, which can be legally protected. (3)
- 8 Name the categories of products, which are excluded from patent protection. (3)
- 9 Which are the important phases, for an effective technology change, in an organisation. (3)
- 10 Describe the reasons for employee resistance in change initiatives. (3)

**PART B**

*Answer any one full question from each module, each carries 14 marks.*

**Module I**

- 11 a) What are the major factors, requiring organisations to focus in Technology management? (7)
- b) Discuss the major interdependent aspects of manufacturing technology. (7)

**OR**

- 12 a) Detail the national level issues in Technology management. (7)
- b) Distinguish between product technology and process technology. (7)

**Module II**

- 13 a) Describe the various contents of a Technology transfer agreement. (7)  
b) How Technology acquisition is justified in an organisation? (7)

**OR**

- 14 a) Explain the need of Technology planning. (7)  
b) List out and detail technology forecasting methods. (7)

**Module III**

- 15 a) What is 'Technology strategy' for an organisation? Explain its needs. (7)  
b) Explain the various steps in creating a Technology strategy. (7)

**OR**

- 16 a) Describe the organizational level issues in Technology acquisition. (7)  
b) What are the advantages and disadvantages of Technology acquisition, on a national level? (7)

**Module IV**

- 17 a) Describe the organizational level issues in R&D management. (7)  
b) Which are the focus areas of R&D, in product development? (7)

**OR**

- 18 a) What are the criteria to qualify a new technology for implementation in developing a new product? (7)  
b) Discuss the risks associated with innovation. (7)

**Module V**

- 19 a) List and narrate the factors necessitating an organisation to go for technological changes. (7)  
b) Describe the various steps in effectively managing technological changes. (7)

**OR**

- 20 a) Discuss the types of employee resistance and ways to mitigate their effects, during the implementation of technology changes, in an organisation. (7)  
b) Describe the reasons and advantages of industrial automation. (7)

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