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**APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY**

B.Tech Degree S8 (R,S) Exam (FT / PT) April 2025 (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  | Enumerate the disadvantages of technological competition.                                   | (3) |
| 2  | Distinguish between process technology and product technology.                              | (3) |
| 3  | Write any three advantages of Delphi method.  | (3) |
| 4  | List and discuss any two new technologies widely in use.                                    | (3) |
| 5  | What are the elements of technology strategy?   | (3) |
| 6  | Why the organizations become technology dependent?  | (3) |
| 7  | Summarize the relations between globalization and innovations.                              | (3) |
| 8  | What are the elements of production cost?   | (3) |
| 9  | How does organization structure affect technology?  | (3) |
| 10 | Write down any three psychological implications for employees due to the technology change. | (3) |

**PART B**

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

**Module I**

- |    |   |     |
|----|---|-----|
| 11 | a) What do you think would have to be done to make internet based technology attractive to those who currently do not use it? | (8) |
|    | b) Explain the key elements of the technology management.   | (6) |

**OR**

- |    |   |     |
|----|---|-----|
| 12 | a) Summarize the responsibilities of technology management.         | (8) |
|    | b) Explain any six key issues in managing technological innovation. | (6) |

**Module II**

- |    |   |     |
|----|---|-----|
| 13 | a) Discuss the concept, relative advantages, and disadvantages of technology roadmapping. | (8) |
|    | b) List the key benefits of technology generation and development.                        | (6) |



**OR**

- 14 a) Discuss the characteristics of technology forecasting. (8)  
b) With suitable examples describe the process of managing acquired technology. (6)

**Module III**

- 15 a) What you mean by technology diffusion? Which are the factors influencing the technology diffusion process? (8)  
b) Write the stages of technology adoption process. (6)

**OR**

- 16 a) What are the benefits of technology absorption? (8)  
b) Explain the science and technology policy in India. (6)

**Module IV**

- 17 a) List and explain any four results of translation of R&D efforts to technology? (8)  
b) Explain the importance of corporate research. (6)

**OR**

- 18 a) Explain any two types of innovations and the benefits they bring to organisations and society. (8)  
b) What you mean by a patent and how it can bring the benefit to the patentee? (6)

**Module V**

- 19 a) Explain any four human factors to be considered in technology management. (8)  
b) What are the psychological effects on employees, which the integration of technology in organization has made? (6)

**OR**

- 20 a) What is environmental impact analysis? How is it carried out? (8)  
b) Examine the relations and distinctions between technology assessment and environmental impact analysis. (6)

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