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| Regulation R-20 Subject code: C37PE4B TKR COLLEGE OF ENGINEERING AND TECHNOLOGY  (Autonomous, Accredited by NAAC with ‘A’ Grade)  ***C:\Users\india\Desktop\tkrcet-logo.jpg*** **B.Tech IV Year I Semester Regular/Supply Examinations, 2023**  *Model paper -1*  **INDUSTRIAL ENGINEERING AND MANAGEMENT**  **(Mechanical Engineering)**  ***Maximum Marks: 70*** **Duration: 3 Hours**  **Note:** **1.This question paper contains two parts A and B.**  **2. Part A is compulsory which carries 10 marks. Answer all questions in Part A.**  **3. Part B consists of 10 questions. Answer any 5 questions which carries 12M.**  **4. Each question carries 12marks and may have a, b, c, d as sub questions.** | | |
| Part-A | | | |
| **All the following questions carry equal marks (10x2M=20 Marks)** | | | |
| 1 | | [2]  What are the appreciations of Fayol’s functional school of Management theory? | |
| 2 | | What is matrix organization? What are its strengths and weaknesses? | |
| 3 | | Write types of production? | |
| 4 | | List out Muther’s principles of layout? | |
| 5 | | Define inventory control? | |
| 6 | | Give the basic aspects that work study takes care of. | |
| 7 | | State the marketing functions ? | |
| 8 | | List out any two qualities of saleman? | |
| 9 | | What are the functions of HRM? | |
| 10 | | * What are the objectives of HRM? | |
| Part-B | | | |
| Answer **ANY FIVE QUESTIONS** **(10MX 5=50Marks)** | | | |
| 11 | Explain the Taylor’s scientific management theory in brief. | | |
| 12 | What is leadership? What are the various leadership styles? Explain in brief. | | |
| 13 | A steel manufacturing company has the following main jobs   * 1. Manufacturing ii) Finance iii) Marketing iv) Personnel   v) Research and developmen | | |
| 14 | Explain Job, mass and Batch production along with merits and demerits. | | |
| 15 | Explain the ABC analysis in inventory control with graph? | | |
| 16 | Explain the functions of purchase department? | | |
| 17 | Differentiate between buyers market and sellers market? | | |
| 18 | Define work study. Explain the steps in work study along with their importance. | | |
| 19 | Write the basic functions of HR manager? | | |
| 20 | Explain the salient future of Indian factories Act 1948 ? | | |

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| Part-A | | | |
| **All the following questions carry equal marks (10x2M=20 Marks)** | | | |
| 1 | | What are the objectives of good layout? | |
| 2 | | Define organization as a structure. Why is it important? Explain in brief. | |
| 3 | | What is planning and control? | |
| 4 | | Define work sampling with an example. | |
| 5 | | Write the types of plant layouts? | |
| 6 | | Write the inventory control techniques? | |
| 7 | | What is routing and scheduling? | |
| 8 | | Write the marketing functions? | |
| 9 | | Write the functions of HR Manager? | |
| 10 | | List any two trade union in india? | |
| Part-B | | | |
| Answer **ANY FIVE QUESTIONS** **(10MX 5=50Marks)** | | | |
| 11 | Explain in brief i) Line and staff organization ii) Line Organization iii) functional organization. | | |
| 12 | Discuss the principles of Taylor’s Scientific Management and explain the limitations. | | |
| 13 | Explain the importance of production planning and control? | | |
| 14 | Write a brief note about different types of production? | | |
| 15 | Explain use of work study leads to higher productivity in a manufacturing unit. | | |
| 16 | Explain the ABC analysis in inventory control with graph? | | |
| 17 | Write Mass, Job and Batch production along with merits and demerits. | | |
| 18 | What are the main objectives of marketing? | | |
| 19 | Write the basic functions of Human resource management? | | |
| 20 | Explain the salient future of Indian factories Act 1948 ? | | |

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| Regulation R-20 Subject code: C37PE4B TKR COLLEGE OF ENGINEERING AND TECHNOLOGY  (Autonomous, Accredited by NAAC with ‘A’ Grade)  ***C:\Users\india\Desktop\tkrcet-logo.jpg*** **B.Tech IV Year I Semester Regular/Supply Examinations, 2023**  *Model paper- 3*  **INDUSTRIAL ENGINEERING AND MANAGEMENT**  **(Mechanical Engineering)**  ***Maximum Marks: 70*** **Duration: 3 Hours**  **Note:** **1.This question paper contains two parts A and B.**  **2. Part A is compulsory which carries 10 marks. Answer all questions in Part A.**  **3. Part B consists of 10 questions. Answer any 5 questions which carries 12M.**  **4. Each question carries 12marks and may have a, b, c, d as sub questions.** | | |
| Part-A | | | |
| **All the following questions carry equal marks (10x2M=20 Marks)** | | | |
| 1 | | State the advantages of job evaluation. | |
| 2 | | State the concept of organization chart | |
| 3 | | State the factors to be considered for location of plant. | |
| 4 | | What is the concept of productivity? | |
| 5 | | Expand ABC analysis? | |
| 6 | | Define inventory? | |
| 7 | | List out the functions of sales department? | |
| 8 | | State the marketing functions? | |
| 9 | | List out the functions of HR Manager? | |
| 10 | | Mention some HR policies? | |
| Part-B | | | |
| Answer **ANY FIVE QUESTIONS** **(10MX 5=50Marks)** | | | |
| 11 | Explain the functions of management and discuss the role of a manager. | | |
| 12 | Define leadership. What are the characteristics of leadership? | | |
| 13 | Discuss the types of plant layout with suitable examples and discuss the applications. | | |
| 14 | Explain Job and Batch production along with merits and demerits. | | |
| 15 | Define work study. Explain the steps in work study along with their importance. | | |
| 16 | What are the objectives of plant maintenance? | | |
| 17 | Explain the necessity of inventory control in an industry and its functions? | | |
| 18 | Explain the function of purchase department? | | |
| 19 | Differentiate marketing and selling? | | |
| 20 | Explain the basic functions of HR manager? | | |

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| Part-A | | | |
| **All the following questions carry equal marks (10x2M=20 Marks)** | | | |
| 1 | | What are the appreciations of Fayol’s functional school of Management theory? | |
| 2 | | What is matrix organization? What are its strengths and weaknesses? | |
| 3 | | What is routing and scheduling? | |
| 4 | | List out types of plant maintenance? | |
| 5 | | Expand ABC analysis? | |
| 6 | | Define inventory? | |
| 7 | | Define marketing? | |
| 8 | | List any two qualities of sales man? | |
| 9 | | What are the functions of HRM? | |
| 10 | | * What are the objectives of HRM? | |
| Part-B | | | |
| Answer **ANY FIVE QUESTIONS** **(10MX 5=50Marks)** | | | |
| 11 | What are managerial functions? How are they integrated? | | |
| 12 | Examine the scientific nature in Taylor’s scientific management | | |
| 13 | What are the different types of layouts? How should an organization decide on which layout to choose? | | |
| 14 | Distinguish between a military organization and a functional organization. | | |
| 15 | Explain features, advantages , limitations and suitability of following layouts:  Product layout b) Process layout c) Fixed position layout. | | |
| 16 | State the advantages and limitations of stopwatch time over work sampling. | | |
| 17 | Explain ABC analysis in inventory control with graph? | | |
| 18 | Explain the function of purchase department? | | |
| 19 | Differentiate marketing and selling? | | |
| 20 | Write the basic functions of Human resource management? | | |