

DR.KALAM POLYTECHNIC COLLEGE, AVANAM

DEPARTMENT OF MECHANICAL ENGINEERING

INDUSTRIAL ENGINEERING AND MANAGEMENT

**UNIT I
PART - A**

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| 1. Define Plant. | APR-15 |
| 2. Define plant layout. | OCT-13 |
| 3. Define Material Handling. | APR-14 |
| 4. Define Maintenance. | APR-16 |
| 5. State the various types of maintenance. | OCT-14 |
| 6. Mention the types of layout. | OCT-16 |
| 7. Mention the techniques of improving the plant layout. | APR-12 |
| 8. Advantages of good maintenance. | APR-12 |
| 9. Disadvantages of poor maintenance. | OCT-12 |
| 10. Define breakdown maintenance. | OCT-13 |
| 11. Define material handling | OCT-11 |
| 12. Where the breakdown maintenance is adopted? | OCT-14 |
| 13. What is meant by collective bargaining? | OCT-11 |
| 14. State the direct cost of an accident. | APR-12 |
| 15. What is conveyor and where it is used? | OCT-10 |
| 16. State the activities to do for the plant location. | OCT-11 |
| 17. Give any two examples of plant which follows process layout | APR-10 |
| 18. What is an industrial dispute? | OCT-13 |
| 19. What you meant by industrial accidents? | APR-15 |
| 20. Name the laws which are connected to working conditions. | OCT-10 |

PART - B

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| 1. Explain the factors which considered for the selection of a plant side. | APR-15 |
| 2. Briefly explain the various techniques used to improve the plant layout. | OCT-15 |
| 3. Explain the various types of maintenance with example. | APR-13 |
| 4. Explain with neat diagram of material handling equipment. | OCT-14 |
| 5. What are the principles of scientific layouts? | OCT-14 |
| 6. State the advantages and disadvantages of maintenance | APR-16 |
| 7. Write the short notes on accident Proneness | APR-11 |
| 8. What are the causes of industrial accidents? | APR-13 |
| 9. Explain the factories act 1948 | APR-16 |
| 10. Explain any one method of settlement of industrial Disputes | OCT-11 |
| 11. Explain the types of layout. | OCT-10 |
| 12. Difference between Preventive and Breakdown Maintenance. | OCT-11 |

**UNIT II
PART - A**

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| 1. Define Method study. | APR-12 |
| 2. State any two objectives of method study. | APR-14 |
| 3. What is operation process chart? | OCT-15 |
| 4. Define Standard time. | OCT-10 |
| 5. What is PMTS? | OCT-12 |
| 6. What is production study? | OCT-13 |
| 7. Give any two objectives of work study. | OCT-16 |
| 8. Define productivity. | APR-14 |
| 9. Define Rating Factor. | APR-12 |
| 10. What is meant by policy allowance? | APR-10 |
| 11. Write short note on work study. | OCT-10 |
| 12. What is flow process chart? | APR-12 |
| 13. What is observed Time? | APR-10 |
| 14. Define Work Measurement. | APR-12 |
| 15. What is meant by standard Time? | OCT-13 |
| 16. What is the use of string diagram? | APR-12 |
| 17. Define Allowances. | APR-13 |
| 18. What is basic Time? | OCT-11 |
| 19. What is meant by Production? | OCT-15 |
| 20. Explain Flow Diagram With Example. | APR-12 |

PART - B

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| 1. Explain the methods for improving productivity. | APR-15 |
| 2. Explain the importance of good working conditions. | OCT-11 |
| 3. Explain the flow process chart and outline process chart with chart diagram and symbols. | APR-12
APR-13 |
| 4. Explain the basic procedure for the conduct of method study. | OCT-13 |
| 5. Explain the types of allowances in work measurement. | APR-12 |
| 6. Explain with a sketch the MAN-MACHINE chart. | APR-11 |
| 7. What is Operation Process Chart? | APR-10 |
| 8. Explain (A) Production Study (B) Ratio delay study | APR-11 |
| 9. Explain the String Diagram | OCT-10 |
| 10. Explain the basic Procedure making for method study. | APR-12 |
| 11. Charts and diagrams used in method study. | APR-11 |
| 12. Explain the basic Procedure making for Time study. | APR-12 |

UNIT III

PART - A

1. What is PPC? APR-14
2. Write any two major functions of PPC. OCT-15
3. What is Pre-Planning? APR-16
4. Define the term scheduling. OCT-16
5. What is the definition of EBQ? APR-13
6. What are types of scheduling? APR-12
7. Write any two objectives of inspection. OCT-14
8. Define attributes inspection. OCT-13
9. State any two principles of product planning. APR-14
10. State the benefits of ISO certification. OCT-12
11. What is fixed cost? APR-11
12. Define SQC. APR-14
13. What are the needs of sampling plan? OCT-11
14. Write the uses of X-P chart. APR-12
15. State the uses of control charts. OCT-12
16. What are the difference between inspection and quality control? OCT-11
17. What is forecasting? APR-13
18. Define Routing. APR-12
19. Define Quality. APR-15
20. Define Inspection. APR-10

PART – B

1. Explain the various methods of fore casting. APR-14
2. Explain the various types of inspection with its merits and demerits. OCT-14
3. What are benefits of having ISO -9000 certificates? APR-12
4. Explain the various functions PPC. OCT-12
5. Explain the breakeven analysis with graph to select a machine
In process planning. APR-16
6. What are types of production? Mention their characteristics with
respect to PPC. OCT-10
7. Explain how the PPC department could be called the nerve of a factory. OCT-11
8. Explain the procedure of critical path method APR-12
9. Explain the construction of X chart and R chart. OCT-11
10. Compare centralized inspection and floor inspection. OCT-12
11. With suitable block diagram explain the single and double sampling plan. APR-14
12. Explain the Process planning procedure. OCT-10

UNIT IV

PART – A

1. Define management. APR-11
2. Define administration OCT-12
3. Define organization. APR-12
4. What is JIT? APR-13
5. Define TQM. APR-14
6. Define motivation. OCT-12
7. State the importance of job evaluation. OCT-11
8. What are components of wages? OCT-12
9. What are types of motivation? APR-16
10. State any two qualities of good leadership. OCT-15
11. What is staffing? APR-12
12. What is MIS? OCT-14
13. Define Job Evaluation. APR-15
14. Define merit rating. OCT-12
15. Define directing. OCT-14
16. What is staffing? APR-11
17. Define Organizing. OCT-12
18. Name the three types of leadership. APR-14
19. Define Communication. APR-10
20. Name the two fundamental methods of payment wages. APR-10

PART – B

1. Explain the principles of Taylor's scientific management. APR-15
2. Explain the principles of management given by the Henry Fayol. APR-14
3. Explain the various types of training with their merits and demerits. OCT-11
4. Briefly explain the following (a) quality circle (b) TQM APR-16
5. Briefly explain the responsibilities human manager. OCT-15
6. Write short note on the following (a) JIT (b) zero defect concept OCT-16
7. Explain the various types of leadership with their merits and demerits. APR-12
8. Briefly explain the functions of a manager. APR-14
9. Explain the employee's selection process. OCT-10
10. Explain the various types of training with their merits and demerits. APR-14
11. State and explain the principles of organization. OCT-14
12. Explain the various types of payment of wages with merits and demerits. OCT-12

UNIT V

PART – A

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| 1. State the types of capital required. | OCT-11 |
| 2. List the sources of capital. | APR-12 |
| 3. What is meant by prime cost? | APR-14 |
| 4. Define depreciation. | APR-13 |
| 5. What is lead time? | APR-15 |
| 6. What is ABC analysis? | OCT-12 |
| 7. State any two types of debentures. | OCT-10 |
| 8. State any two objectives of stock control system. | OCT-12 |
| 9. Define the term factory over head. | OCT-14 |
| 10. Define minimum stock | APR-15 |
| 11. Define Finance. | APR-15 |
| 12. What is fixed capital? | OCT-14 |
| 13. What you mean by working capital? | APR-11 |
| 14. Define inventory. | APR-11 |
| 15. What is debenture? | APR-14 |
| 16. What is factory over head? | APR-15 |
| 17. What is bin card? | APR-15 |
| 18. State the purpose of finding EOQ. | APR-12 |
| 19. What is sales over head? | APR-11 |
| 20. Name the elements of cost. | APR-14 |

PART – B

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|---|--------|
| 1. Explain the ABC analysis of inventory. | APR-15 |
| 2. Describe the block diagram how the selling price of the product is arrived. | OCT-13 |
| 3. Write down the causes for the depreciation. | APR-14 |
| 4. Explain the various resources of capital. | OCT-14 |
| 5. State the advantages of a good stock control system. | APR-16 |
| 6. Explain the analytical and graphical method of find out the EOQ. | OCT-15 |
| 7. Explain the various methods of calculation of depreciation. | OCT-08 |
| 8. Explain the procurement and consumption cycle of stock control system. | OCT-05 |
| 9. Describe the general procedure about to purchasing material. | OCT-06 |
| 10. Explain the supply chain management firm. | OCT-10 |
| 11. State and explain briefly about the various types of shares within advantages and disadvantages | APR-11 |
| 12. Explain the factors which determine the amount of fixed capital. | APR-12 |

With Regards,
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