| Code No: 118DZ JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech IV Year II Semester Examinations, April - 2018 PRODUCTION PLANNING AND CONTROL | |
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| JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech IV Year II Semester Examinations, April - 2018 PRODUCTION PLANNING AND CONTROL | |
| PRODUCTION PLANNING AND CONTROL | |
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| Time: 3 hours (Mechanical Engineering) Max. Marks: 75 | |
| Note: This question paper contains two parts A and B. | |
| Part A is compulsory which carries 25 marks. Answer all questions is B | |
| consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions. | |
| /R /R /R /PART-A /R /R /R | <u>.</u> |
| (25 Marks) | |
| 1.a) List out the various functions of production planning and control (2) | |
| b) What are the needs for PPC? [2] c) What is the importance of forecasting? [3] | |
| d) What are the differences between short town and 1 | |
| / Interest in Carle by inventory controls | **** |
| 1) State the costs associated with inventory problems | / |
| g) Define line balancing. [3] h) Explain routing procedure [2] | |
| 1) What is dispatching? | |
| j) State any three objectives of follow up [2] | |
| TH TH TR TRANSPORTED TO TRANSPORTED | |
| 2.a) Explain the scope of production planning and control. (50 Marks) | 1 |
| b) Explain different types of production systems and differentiate between them. [5+5] | |
| (A)D | |
| b) Discuss organization of Production planning and production control and state their objectives. | |
| | www. |
| 4.a) Discuss the factors which affects the choice of forecasting method b) Forecast the production for part two years and the choice of forecasting method | 1 |
| b) Forecast the production for next two years when the production quantity for last ten years is as follows: 200, 225, 235, 240, 255, 260, 265, 275, 270, 271 | |
| Oscille following methods and comment on regults | |
| 1) Moving average (3 years and 5 years) | |
| ii) Exponential smoothing for $\alpha=0.3$ and 0.7. [5+5] | |
| 5.a) Describe 'Least Square Method' of sales forecasting with its advantages and limitations. b) Describe the Survey of buyers intention method of sales forecasting with its advantages and limitations. | 7 |
| The state of the s | \mathcal{L} |
| and limitations. [5+5] | |
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| · 7F | b) Explain the 7.a) What is m b) Alpha ind year. The of the pur Order quar | e various elemente ant by VED and ustry estimates to ordering cost is I chase price per atity, ii) No. of or | ott are anowed that of JIT. OR alysis? What is it is that it will sell 1 Rs. 100 per order unit. The purcharders per year and | s significance? 2000 units of its and the carrying ase price per und iii) Time betwe | s product for the g cost per unit per it is Rs.50.Find i en successive order | [5+5] forthcoming year is 20%) Economic ers. [5+5] | |
|---|--|--|---|--|--|---|---------------------------------------|
| / / / / | b) What is ag | gregate planning | ? Write its function | in about the impons, merits and d | ortant component | s of routing [5+5] | |
| 9.a) Explain various functions of Routing. Bring out any four differences between scheduling and loading. [5+5] 10.a) Define follow up and explain different types of the follow up in detail. b) Discuss in detail the sequential steps involved in dispatching. OR 11.a) Describe the following forms used in dispatching: i) Move order ii) Production ticket. b) Explain the applications of computer in production planning and control. [5+5] | | | | | | | |
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| 7R | 7P | 7R | 7R | 7 2 | 7 7 R | 7R | |
| 7P | 7R | 7R | 7R | 7R | 7 R | 7.R | - - <u>-</u> - <u>-</u> - <u>-</u> |
| 7R | 7 | 7R | 72 | 78 | 78 | 7R | 7 |