| Name: <br> Enrolment No: |  |  |  |
| :---: | :---: | :---: | :---: |
| Course <br> Progra <br> Time: <br> Instruc | UNIVERSITY OF PETROLEUM AND ENERGY STUDIES <br> End Semester Examination, December 2018 <br> Operations Management <br> me: MBA LSCM <br> Course <br> 3 hrs . <br> ions: As per sections |  | $\begin{gathered} \mathrm{r}: ~ I \\ \mathbf{7 0 0 1} \\ \mathbf{1 0 0} \end{gathered}$ |
| SECTION A |  |  |  |
| S. No. | Attempt all questions(20 marks) | Marks | CO |
| Q 1 | Mark True/False (T/F) for the following |  |  |
| a) | In Build to Order, the product is completely made into their final form and stocked as finished goods (T/F) | 2 | CO 2 |
| b) | Scheduled receipt is derived from MPS or planned order release of the parent(T/F) | 2 | CO 5 |
| c) | In Gap model, Gap 1 is the discrepancy between customer expectations and management perceptions of those expectations(T/F) | 2 | CO 6 |
| d) | Order qualifiers are dimensions by which a potential customer determines which suppliers of a product or service meet certain criteria(T/F) | 2 | CO 1 |
| 2 | Fill in the blanks |  |  |
| a) | ___ is the interval between successive outputs coming off the assembly line | 2 | CO 2 |
| b) | The original approach to JIT focused on ___ reduction. | 2 | CO 6 |
| c) | $\qquad$ inventory is the inventory purposely placed between operations to allow them to operate independently of one another. | 2 | CO 5 |
| d) | $\qquad$ is the difference between the completion time and the due date (either positive or negative) | 2 | CO 4 |
| e) | A useful tool for depicting a schedule graphically is a ___ chart | 2 | CO 4 |
| f) | $\qquad$ capacity is the maximum output per unit time the process can achieve for a short period of time under ideal operating conditions | 2 | CO 3 |
| SECTION B |  |  |  |
|  | Attempt any four questions | 20 |  |
| Q3 | Compare the four types of facility layouts based on Demand Volume, Equipment utilization, Flexibility and Type of equipment. | 5 | CO 3 |
| Q4 | What do you understand by Operations Strategy? | 5 | CO 1 |
| Q5 | What are the various types of inventory control techniques? | 5 | CO 5 |
| Q6 | What do you understand by Acceptance Sampling? What are the various types of sampling errors? | 5 | CO 6 |
| Q7 | How do you measure capacity in job shops? | 5 | CO 3 |








|  | probability for each of the specified delivery time, recommend the delivery schedule that the Patel Machinery Co. should follow: |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Contract Delivery Time(weeks) | Contract Amount(Rs.) |  |  |
|  | 15 | 1,42,500 |  |  |
|  | 14 | 1,45,000 |  |  |
|  | 13 | 1,50,000 |  |  |
|  | 12 | 1,52,500 |  |  |
| Q13 | The Costello Music company has been in business for 5 years. During that time its sales of electric organs have grown from 12 units to 76 units per year. Fred Costello, the firm's owner wants to forecast next year's organ sales. The historical data follows: <br> a) What forecasting method do you recommend and why? <br> b) Use your recommendation to obtain the forecast for Years 6 and 7. |  | 15 | CO 6 |

