| Name: <br> Enrolment No: |  |  |  |  | ER | WITH A PURP |  |
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| UNIVERSITY OF PETROLEUM \& ENERGY STUDIES End semester Examination - May, 2021 |  |  |  |  |  |  |  |
| Course: Production Planning and Control <br> Subject/: MBA General(Operations) <br> Course Code: LSCM 7010P |  |  |  |  |  | Semester: II <br> Time: 3 Hours <br> Max. Marks: 100 |  |
| 1. Each Question will carry 5 Marks <br> 2. Instruction: Complete the statement / Select the correct answer(s) |  |  |  |  |  |  |  |
| S.No. | Question |  |  |  |  |  | COs |
| Q 1 | The three general categories of strategic approaches used as a part of Sales and Operations Planning are $\qquad$ , $\qquad$ and $\qquad$ |  |  |  |  |  | CO 2 |
| Q 2 | The common lot sizing methods discussed in class are ___ |  |  |  |  |  | CO 2 |
| Q 3 | The facility layout problem is considered as $\qquad$ problem and solved using $\qquad$ and $\qquad$ algorithms as discussed in research articles in class. |  |  |  |  |  | CO1 |
| Q 4 | The process of breaking down of aggregate plan into finer detail is called$\qquad$ -. |  |  |  |  |  | CO 3 |
| Q 5 | Which of the following is a quantitative forecasting method <br> a) Delphi Technique <br> b) Holt's model <br> c) Exponential Smoothing <br> d) Winter's model |  |  |  |  |  | CO 2 |
| Q 6 | MRP is a scheme for converting $\qquad$ into a planned schedule of raw materials, components and sub-assemblies orders. |  |  |  |  |  | CO1 |
| SECTION B <br> 1. Each question will carry 10 marks <br> 2. Instruction: Solve the numerical problems |  |  |  |  |  |  |  |
| Q 7 | For the below demand data set apply the Wagner-Whitin Algorithm |  |  |  |  |  |  |
|  | Period | 1 | 2 | 3 | 4 | 5 |  |
|  | Demand | 50 | 80 | 180 | 80 | 0 | CO 3 |
|  | Setup Cost(Ordering Cost) $=$ Rs. 206, Inventory Carrying Cost $=$ Rs. 4 per part period <br> The formula for the same is given as under: |  |  |  |  |  |  |




