## P-9080

SEAT No. :


## PREJECT MANAGEMENT

(2019 Patern) (Semester - IV) (201012)

Time: $2^{1 ⁄ 2} 2$ Hours]
[Max. Marks : 70

## Instructions to the candidates:

1) Answer Q. 1 or Q.2, Q. 3 or Q.4, Q. 5 or Q.6, Q. 7 or Q.8.
2) Figures to the right indicate full marks.
3) Assume Suitable data, if necessary.
4) Use of calculator is allowed in the examination.
5) Neat diagrams must be drawn wherever necessay

Q1) a) Discuss the objectives of materialmanagenent.
b) Explain the various safety measures to be taken in case of high-rise building construction.
c) The annual demand of a construction item by a firm is 6400 units. The unit cost is Rs. 6 and inventovy drrying cost per unit per annum is $25 \%$ of the average inventory costr If the cost of procurement is Rs. 75, determine (i) economic order quantity (ii) Number of orders per annum

Q2) a) Explain witha neat sketch, Site layout for a residential building constructon site.
b) The construction company has an inventory of 8 items. Followirg table shows the annuaPconsumption of the items used ina project and their unit cost. Classify them in A,B,C classes.

| Item No. | Annual Consumption in Unit | Unit Cost (Rs.) |
| :---: | :---: | :---: |
| 1 | 12000 | 3.00 |
| 2 | 22000 | - 2.50 |
| 3 | 1900 | $\geqslant 1.70$ |
| 4 | 45000 ) | 2.80 |
| 5 | 3500 | 1.70 |
| 6 | 60000 | 1.50 |
| 7 | 9000 ¢ | 2.00 |
| 8 | 32000 v | 3.00 |

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Q3) a) Discuss with sketch Resources Levelling and Resources Smoothing.
b) Explain different steps involvedin Project Updating in a construction project.
c) Discuss the various performance of measurement parameters of Earned value Management.

## OR

Q4) a) Explain ProjectMonitoring and discuss any one method of it.
b) The following table lists four activities of a construction project along with normad and shortest duration of completing the activity and the cost of reduction per day. The Project overhead costs are R's. 2000 per week. Find the optimum duration and cost associated wift it. Also draw least cost network for following project
[13]

| Activity | Normal duration (weeks) | Normal Cost (13.) 6 | Crash <br> Duration <br> (Weeks) | Crash Cost (Rs.) |
| :---: | :---: | :---: | :---: | :---: |
| 1-2 | 4 | 4000 | 2 | 12000 |
| 2-3 | 5 | 3000 | 2 | 7500 |
| 2-4 | 7 | $\checkmark 3600$ | 5 | 6000 |
| 3-4 |  | 5000 | 2 | 10000 |

Q5) a) Define the following:
ii) Value
iii) Price
iv) Rent
v) Simple Interest
b) Discuss Elasticity of Demand and supply.
c) Explain Law of Diminishing Marginal Utility and Law of Substitution.[7] OR

Q6）a）Discuss the various factors AffectingDrice Determination．
b）State and explain the various Sources of Project Finance．
c）Explain Supply curve and demand curve with neat diagram．

Q7）a）List the varioustypes ofi project appraisal and explain any one in detail．
b）A constructioncompany has the resources to implement one of the two projects that bave been offered to it．Using NPV suggest the one project the company should accept．The expected returns are 12\％per annum．［12］


OR
Q8）a）Explain with figure breakeven analysis．
b）Discuss role of project management consultant in pre tender and post tender stáge．
c）Differentiate between NPV and IRR．

