

Total No. of Questions : 6]

SEAT No. :

[Total No. of Pages : 2

P9

TE/Insem./APR - 12
T.E. (Civil Engineering)

301008 : PROJECT MANAGEMENT & ENGINEERING ECONOMICS
(2015 Pattern) (Semester - II)

Time : 1 Hour]

[Max. Marks : 30

Instructions to the candidates:

- 1) *Solve either Q. No. 1. or Q. No. 2, Q. No. 3. or Q. No. 4 and Q. No. 5 or Q. No. 6.*
- 2) *Neat diagrams must be drawn whenever necessary.*
- 3) *Figures to the right indicate wherever necessary.*
- 4) *Use of logarithmic tables slide rule, Mollier charts, electronic pocket calculator and steam tables is allowed.*
- 5) *Assume suitable data, if necessary.*

Q1) a) Explain project life cycle concept with suitable example. **[4]**

b) Explain the different project categories. Enlist the causes of failure of project. **[6]**

OR

Q2) a) Explain importance of construction project management. **[4]**

b) Draw & Explain matrix organisation. Explain it's merits & demerits. **[6]**

Q3) a) Writedown the "WBS" for Highrise building. **[4]**

b) Write a short note on **[6]**

- i) Fulkerson rules for numbering
- ii) AOA & AON

OR

P.T.O.

- Q4) a)** Explain types of activities & events with the help of site related example. [4]
- b)** The following table shows the project along it's duration. Draw a neat diagram & also find critical path. Follow the rules. [6]

Activity	duration
1-2	3
1-3	2
1-4	6
2-4	5
2-5	7
3-4	2
4-5	4

- Q5) a)** Yearly requirement of cement by a large firm is 300 bages. The cost of bag is 300/- lead time is one month & ordering cost per order is 200/-. Assume annual carrying cost for inventory is 20% of avg. inventory management. Find EOQ & total inventory cost. [6]
- b)** Write down safety program for construction of Pune ring road project. [4]

OR

- Q6) a)** Explain merits & Demerits of ERP system. [4]
- b)** Explain any one method of selective inventory control with suitable example. [6]
