

Total No. of Questions : 6]  
**P476**

SEAT No. :   
[Total No. of Pages : 2

**TE/Insem/APR - 2**  
**T.E. (Civil)**  
**PROJECT MANAGEMENT & ENGINEERING ECONOMICS**  
**(2012 Pattern) (Semester - II)**

*Time : 1 Hour]*

*[Max. Marks : 30*

*Instructions to the candidates :*

- 1) All questions are compulsory.*
- 2) Figures to the right indicate full marks.*

**Q1)** Attempt the following :

- a) What are the objectives and importance of Project management? [4]
- b) Write a short note on [6]
  - i) Functions of Management
  - ii) Project categories

OR

**Q2)** Attempt the following :

- a) What do you know about PMI and PMP? [4]
- b) Write a short note on [6]
  - i) Project life cycle
  - ii) Importance of well - defined organization structure.

**Q3)** Attempt the following :

- a) Define different time estimates used in PERT analysis. [4]

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- b) A certain project takes 60 days along the critical path and has variance of 16 days. Compute scheduled completion time for the project with following probabilities. [6]

- i) 34.5% for  $Z = -0.4$ .
- ii) 97.7 for  $Z = +2.0$
- iii) 54% for  $Z = +0.1$
- iv) 50% for  $Z = 0$

OR

**Q4)** Attempt the following :

- a) Define Dummy activity and explain its necessity with the help of site related example. [4]
- b) Draw the project network, mark critical path, find project duration for the data as follows : [6]

Activity	A	B	C	D	E
Immediate preceding Act.	None	None	A,B	A	C,D
Duration (Weeks)	5	2	10	12	5

**Q5)** Attempt the following :

- a) What are the methods of man power planning? [4]
- b) Following data related to small construction work, Draw time grid diagram, Mason requirement per day and histogram. [6]

Activity	1-2	1-5	2-3	2-4	3-5	4-5
Duration (Days)	5	13	8	3	2	6
Labors (No.)	6	7	10	2	11	3

OR

**Q6)** Attempt the following :

- a) What do you understand by updating of network diag, list out possibilities?[5]
- b) Define cost slope & List out step by step process of crashing of network.[5]

