



**B.E/ B.Tech (Part Time) DEGREE ARREAR EXAMINATION, NOV/DEC 2013  
CIVIL ENGINEERING BRANCH  
SEVENTH SEMESTER (R 2002)**

**PTCE 435 MANAGEMENT CONCEPTS FOR CIVIL ENGINEERS**

**Time: Three Hours**

**Max Mark: 100 marks**

**Answer ALL questions  
Part-A (10x2=20 marks)**

1. Write the advantages of management in construction.
2. Define sole proprietorship.
3. What is free float?
4. Write the importance of critical path.
5. Define feasible region in linear programming.
6. List the functions in production management
7. What is ABC analysis?
8. What is collective bargaining?
9. Write the objectives of human resource management.
10. Write the advantages of Primavera.

**Part-B (5x16= 80 marks)**

11. Explain the functions of management and discuss in detail about the function of manager for a construction project.

12. a)

Activity	A	B	C	D	E	F	G	H	I	J	K	L
Duration	6	4	10	1	1	3	14	6	9	2	7	5

(Days)

Construct an arrow diagram and determine the critical path.

**(OR)**

12. b) The following table lists the jobs of a project with their time estimates:

Job	to	tm	tp	(in Days)
A	2	5	14	
B	9	12	15	
C	5	14	17	
D	2	5	8	
E	6	9	12	
F	8	17	20	

Draw the PERT network and determine the expected project completion time.

13. a) Explain the importance of market planning and discuss the significance of marketing research in construction industry.

(OR)

13. b) Explain the following :

(i). Appraisal of projects (8)

(ii). Concept of pay back (8)

14 a). Explain the following

(i). Vendor rating evaluation (8)

(ii). Buying versus leasing of equipment (8)

(OR)

14 b). Explain the scope of human resource management. Discuss in detail about the recruitment and selection stages involved for a selection of manager for a construction sector.

15. a) Discuss the importance of resource management. How do you overcome the problems of usage of project management software

(OR)

15. b). Discuss the following:

(i). Public and private sector enterprises (8)

(ii). Grievances in human resource management (8)