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Total Number of Pages : 02

M.Arch.
PEHD5203

4th Semester Regular Examination 2017-18
PROJECT MANAGEMENT
BRANCH : HABITAT
Time : 3 Hours
Max marks : 70
Q.CODE : C192

Answer Question No.1 which is compulsory and any five from the rest.
The figures in the right hand margin indicate marks.

- Q1 Write short notes in maximum two (2) sentences : (2 x 10)**
- a) What is Project Management?
 - b) Illustrate line organization.
 - c) Name non-discounting financial criteria.
 - d) What is a contract?
 - e) What is looping error?
 - f) Define turn-key project.
 - g) Activity & Event.
 - h) What is a milestone chart?
 - i) What is CPM?
 - j) What is head event slack?
- Q2 a) What is project? What are the components of project management? (5)**
b) Describe briefly the steps involved in all the three components of project management. (5)
- Q3 a) What is a tender? Explain NIT and its purpose. (5)**
b) Elucidate on Item Rate & Lump-sum Tender. (5)
- Q4 Write short notes on any TWO of the following : (5 X 2)**
- a) Work break-down structure.
 - b) What is a risk? Risk assessment.
 - c) Differentiate between the principles of the PERT & CPM.
- Q5 a) What is a contract? What are the types of contract? (5)**
b) Write a short note on the relation between client, consultant and contractor. (5)
- Q6 a) What are investment criteria? (5)**
b) Net Present Value (NPV), Benefit-Cost Ratio (BCR) and Internal Rate of Return (IRR). (5)
- Q7 a) What are the advantages and disadvantages of Gantt/Bar Chart? (4)**

b) For the following project :

(6)

Activities	Duration (weeks)
A	4
B	6
C	4
D	6
E	8
F	6
G	7
H	6

The precedence relationships are as follows:

'A' and 'B' occur concurrently.

'C' and 'D' cannot start until 'A' is complete.

'E' cannot start until half of 'C' is complete.

'F' can start only after 'D' is complete.

'G' succeeds 'C'.

'H' is the last activity and succeeds 'E'.

(i) Draw the bar chart and calculate the total time of completion of the project.

(ii) If there is a increase of 3 weeks in duration of 'A' what will be the overall change in the total time of completion of the project.

Q8 a) Define the various probabilistic time estimates for activities in PERT. (5)

b) For the given PERT network of a project below, find out the critical path. (5)

