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## CE-5005(2)-CBGS

### B.E. V Semester

Examination, December 2020

## Choice Based Grading System (CBGS) Construction Planning and Management

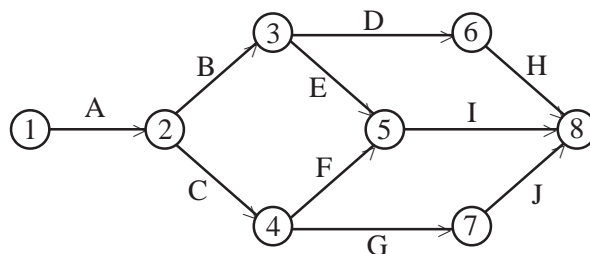
*Time : Three Hours*

*Maximum Marks : 70*

- Note:** i) Attempt any five questions.  
ii) All questions carry equal marks.

1. Explain the following: 14
- a) Bar chart
  - b) Critical path
  - c) Scheduling
  - d) A-O-A and A-O-N system
  - e) Total float
  - f) Dummy
  - g) Activity and Event

2. A construction project consist of ten activities, represented by the network, shown below. 14



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PTO

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The estimate duration of activities are as follows:

Activity	Estimated duration (in days)
A	5
B	2
C	5
D	4
E	4
F	2
G	3
H	8
I	7
J	2

Determine the critical path along with event time, activity time and total float.

3. a) Briefly explain the types of compacting equipment. 7
- b) In terms of construction equipment define following 7
  - i) Depreciation cost
  - ii) Investment cost
  - iii) Fuel consumption cost
  - iv) Lubricating oil cost
4. a) What is Contract Document? Enlist the documents attached to a contract agreement or bond. 7
- b) What are the different type of contracts? Explain briefly. 7

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Contd...

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5. a) Differentiate between permanent imprest and temporary imprest. 7  
b) Write detailed specification of 1:2:4 cement concreting. 7
6. a) Write the merits and demerits of 7  
i) Line or military organisation  
ii) Line and staff organisation  
b) What is Labour welfare? What are the facilities should be given to labour at construction site? 7
7. Write short note on following: 14  
a) Work charge establishment  
b) Tender  
c) Earnest money  
d) Security money
8. Write short note on following: 14  
a) Specification  
b) Resource allocation  
c) BOT (Build-Operate-Transfer)  
d) Float

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