

KATHMANDU UNIVERSITY
End Semester Examination [C]
November, 2018

Marks scored:

Level : B.E.

Course : CIEG 403

Year : IV

Semester: I

Exam Roll No.:

Time: 30 mins.

F.M. : 10

Registration No:

Date NOV 15 2018

SECTION "A"

[20 Q.×0.5=10 marks]

- 1) In CPM network, floats are used for,
 - a) Resource estimation.
 - b) Completing project in time.
 - c) Resource integration.
 - d) Resource Leveling.
- 2) The first step of planning is to:
 - a) Estimate the resources.
 - b) Evaluate the feasibility study.
 - c) Understand the project objective.
 - d) Carry out WBS.
- 3) The one of the demerits of sole trading concerns is:
 - a) Unlimited liability.
 - b) Long chain of command.
 - c) Delayed decision.
 - d) No motivation.
- 4) Organization structure with short Chain of Commands is the characteristic of:
 - a) Matrix organization
 - b) Project organization
 - c) Joint Venture
 - d) Functional organization
- 5) Workmanship is:
 - a) Also mentioned in Specification.
 - b) Not mentioned in specification
 - c) Mentioned in drawings
 - d) mentioned in separate document.
- 6) As per Contract Act, 2056 (2000) of Nepal, following person is not competent for concluding a contract;
 - a) Who has not attained 16 years of age.
 - b) Who has not attained 15 years of age
 - c) Who has not attained 17 years of age
 - d) who has not attained 18 years of age.
- 7) Any company, or a firm certified ISO 9002, means that it carries out following activities.
 - a) Carry out design works
 - b) Produce and install but does not design
 - c) Maintain quality system without documentation
 - d) Maintain quality system with guidelines.
- 8) Total Quality Cost is sum total of:
 - a) Internal failure cost+ External failure cost
 - b) Preventing +Appraisal cost
 - c) Appraisal + internal failure cost
 - d) Quality control Costs + Failure Cost
- 9) Quality Assurance Plan (QAP) is prepared by:
 - a) Owner
 - b) Consultant
 - c) Contractor
 - d) Sub-contractor

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Level : B.E.
Year : IV
Time : 2 hrs. 30 mins.

Course : CIEG 403
Semester: I
F.M. : 40

SECTION "B"

Attempt ALL questions:

1. What do you understand by the term 'Project'. Describe its characteristics and write how will working in project be different from working in other organization? [5]
2. Draw a network diagram (CPM) for the following information and find out Critical path, total floats, Free Floats and Independent Floats. [5]

Activity	Duration	Predecessor Activity	Successor activity
A	8	-	D, E
B	11	-	F
C	10	-	G
D	7	A	F
E	12	A	-
F	9	B, D	-
G	9	C	-

3. Define 'Quality'. What are the quality documents that you will refer to if you are entitled to check the quality of construction project. Describe in your own words the implications or consequences of failure of works/ product due to lack of quality, with appropriate examples. [5]
4. What do you understand by Monitoring? Evaluate the construction project from the following data by calculating variances (SV and CV), indices (SPI and CPI) and also find out Estimated (budget) at Completion (EAC). [2+5]

	Mont h 1	Mont h 2	Month 3	Month 4	Month 5	Month 6	Month 7	Mont h 8	Mont h 9
BCWS	10	25	30	35	45	45	50	30	15
BCWP	5	30	30	30	40	40			
ACWP	10	30	25	35	40	45			

5. Describe briefly all the steps or stages of procurement from 'procurement-planning' to 'contract agreement' for a construction project. [5]
6. Why construction sites are often dangerous? Describe briefly the causes of accidents at site? What are the safety measures that you will take at construction site? [5]
7. Write short notes on *any FOUR* of the followings. [8]
 - a) Performance bond in construction project.
 - b) Project closure.
 - c) Types of equipment for earth compaction.
 - d) Joint Venture in construction project.
 - e) Construction turnover (as bidder's requirement)

