

15 MAR 2019

KATHMANDU UNIVERSITY
End Semester Examination
February/March, 2019

Mark Scored:

Level : B. E.
Year : IV

Course : CIEG 403
Semester: I



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Exam Roll No. :

Time: 30 mins.

F. M. : 10

Registration No.:

Date

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SECTION "A"

[20 Q. × 0.5 = 10 marks]

1. Objectively verifiable indicators are decided in planning stage in the following planning tool
 - a) Critical Path Method.
 - b) Logical Framework approach
 - c) PERT
 - d) Milestone chart
2. Project's direct cost increases
 - a) As the time is increased beyond optimum.
 - b) With increase in indirect cost.
 - c) As the time is decreased below optimum.
 - d) As the construction is stopped.
3. Democratic Management is the characteristics in following organization:
 - a) Joint Stock enterprises.
 - b) Sole proprietorship.
 - c) Partnership
 - d) Public enterprises.
4. Span of control in an organization means:
 - a) Number of personnel control by one manager.
 - b) Group of persons in one unit.
 - c) How communication is controlled.
 - d) How authority is controlled.
5. Standard Specifications are prepared and used by
 - a) Individual contractor.
 - b) Owner
 - c) Government Departments.
 - d) Engineer
6. The contract is considered void if you conclude contract with person
 - a) Below 15 years
 - b) Below 16 years
 - c) Below 17 years
 - d) Below 18 years
7. The purpose of evaluation of 'Liquid Asset' of bidder is to ensure that s/he can
 - a) Meet the unforeseen natural calamities
 - b) meet price escalation of materials
 - c) meet unforeseen future hazard
 - d) meet any unforeseen delay in payment
8. If substantially responsive bidder does not turn up with performance security for signing agreement after receiving your acceptance letter then
 - a) You will forfeit his/ her bid security.
 - b) You will return his/ her bid document.
 - c) You will issue him/ her warning letter.
 - d) You will forfeit performance bond.
9. Improvement of Quality by preventing problems and eliminating recurring problems is
 - a) QC
 - b) QA
 - c) TQ M
 - d) ISO

10. Following is the responsibility of Project Engineer
 - a) Making timely payment to contractor
 - b) Defect remedy
 - c) Interpreting the contract.
 - d) Approve Variation in construction
11. Quality Assurance Plan (QAP) is
 - a) Prepared by owner
 - b) Prepared by engineer
 - c) Prepared by contractor
 - d) Prepared by project manager
12. While opening the bids, it was found that a bid document is not accompanied by bid-bond. Later you as a member of bid evaluation committee, will:
 - a) Not evaluate
 - b) Accept the bid
 - c) Reconsider the bidder
 - d) Ask bidder to submit bid-bond
13. During bid-opening you first open:
 - a) Bid modification Letter
 - b) Bid-withdrawal letter
 - c) All the bids
 - d) Bid as per submission sequence
14. If order to excavate the hard soil with small bushes and stumps and move the soil up to 90 meters to fill downhill to prepare outdoor stadium, you have to choose only one equipment, you will choose:
 - a) Grader
 - b) Excavator
 - c) Scraper
 - d) Bulldozer
15. If you have to clear the site by dismantling old structure and clearing a site for construction in urban area with narrow streets and densely populated area you should choose:
 - a) Wheel Loader with Backhoe
 - b) Bulldozer with crawler
 - c) Grader
 - d) Hoisting Machine
16. In construction 50% of retention money is released after:
 - a) Completion of construction.
 - b) Handing over completed works to owner.
 - c) After issuing work completion certificate.
 - d) Completion of DLP period.
17. Following issue may also lead to the claim and dispute in construction:
 - a) Construction defect rectification by contractor
 - b) Quality beyond specification
 - c) Quality tests expense as per QAP
 - d) Ambiguity and loophole in contract
18. An assertion of a right, claim or demand on one side and repudiation thereof by another is called
 - a) Claim
 - b) Arbitration
 - c) Dispute
 - d) Claim substantiation
19. Generally dispute Resolution Committee consists of
 - a) 7 members
 - b) 5 members
 - c) 3 members
 - d) 2 members
20. As built drawing is prepared and submitted by contractor:
 - a) At the beginning of the construction.
 - b) At the end of the construction.
 - c) During construction.
 - d) 15 days after signing an agreement.

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Time : 2 hrs. 30 mins.

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F. M. : 40

SECTION "B"
[40 marks]

Attempt ALL questions.

1. Define project and discuss life cycle of project. Why do you think 'construction project management' is important in life cycle of project? [5]
2. What do you understand by Planning? Draw a Critical Path Network from the following table and find out Critical Path, Total Floats, Free Floats and Independent Floats. [2+5]

Activity	Duration	Predecessor Activity	Successor activity
A	8	-	D, E
B	11	-	F
C	10	-	G
D	7	A	F
E	12	A	H
F	9	B, D	H
G	9	C	H
H	4	E, F, G	-

3. Define monitoring and evaluation? What are the tools and how they are used to monitor a construction project? [5]
4. What do you understand by procurement? What are the different ways of procuring works for civil construction? [5]
5. Describe quality-cost curve. What do you understand by quality failure cost? What do you think of failure cost to an organization or a construction company? [5]
6. Why construction sites are often dangerous? What safety measures will you take to prevent accidents at site? [5]
7. Write short notes on ANY FOUR of the followings. [8]
 - a) Testing and Commissioning of project.
 - b) International Organization for Standard ISO.
 - c) Equipment and machines for soil compaction.
 - d) Joint Venture in construction projects.
 - e) Average Annual Construction Turnover of bidder (in a bid document)

