Reg. No. : | | | | | | | | | | |

Question Paper Code: 47101

B.E./B.Tech. DEGREE EXAMINATION, APRIL 2019

Seventh Semester

Civil Engineering

14UCE701 -CONSTRUCTION MANAGEMENT AND FINANCE

(Regulation 2014)

Duration: Three hours Maximum: 100 Marks

PART A - (10 x 1 = 10 Marks)

(Answer all Questions)

1. The objective of technical planning is _____ CO1- R

   (a) Initiating the procurement action of resources

   (b) Preparation of estimates

   (c) Taking remedial action for likely bottleneck in the execution

   (d) Risk breakdown structure

2. If the project duration is < 3 years then it is known as…… CO1- R

   (a) Long duration projects (b) Medium duration projects

   (c) Mega duration projects (d) Short duration

3. PERT is CO2- R

   (a) activity oriented (b) event oriented

   (c) time oriented (d) sources oriented

4. The time which does not reduce direct cost with increase in time is known as CO2- R

   (a) crash time (b) normal time (c) optimistic time (d) standard time

5. The network elements are CO3- R

   (a) activity (b) Event (c) slack (d) both (a)& (b)

6. During the construction period, price variation clause in contracts caters to _____. CO3- R

(a) increase in rates of only important materials

(b) variation in cost in materials element, labour element and petrol-oil-lubricant element

(c) variation in total cost of the project on an ad hoc basis

(d) rate of inflation

7. If the probability factor is zero, the chances of the completing the project in schedule time are CO4- R

(a) 0% (b) 50% (c) 75% (d) 100%

8. ASTM means _____. CO4- R

(a) American Society of Total Management

(b) American Society of Testing and Materials

(c) American Society of Total Quality management

(d) American Society of Total Quality control

9. The balance sheet adheres to the following formula: CO5- R

(a) Assets + Shareholders' Equity = Liabilities

(b) Assets + Liabilities = Shareholders' Equity

(c) Assets + Shareholders' Equity + Liabilities =0

(d) Assets = Liabilities + Shareholders' Equity

10. Cost slope of the direct cost curve is given by CO5- R

(a) Crash cost-normal cost/normal time-crash time (b) Crash cost- normal cost/crash time

(c) Crash cost-normal cost/normal time (d) normal cost- Crash cost/ crash time

PART – B (5 x 2= 10Marks)

11. What are the responsibilities of a construction manager? CO1- U

12. Differentiate Choice of technology&appropriate technology. CO2- U

13. Describe about schedule control CO3- U

14. What is meant by total quality control? CO4- U

PART – C (5 x 16= 80Marks)

16.	(a)	Explain the Basic Concepts in the Development of Construction Plans.	CO1 -U	(16)
		Or		
	(b)	Explain how precedence relationship among activities are defined.	CO1 -U	(16)
17.	(a)	(i) Explain Activity float and schedules.	CO2- U	(8)
		(ii) Explain Scheduling with Resource Constraints and Precedence	CO2- U	(8)
		Or		
	(b)	(i) How scheduling with uncertainity its durations is carried out?	CO2- U	(8)
		(ii) Explain the steps to improve the Scheduling Process.	CO2- U	(8)
18.	(a)	Explain forecasting for activity cost control.	CO3- U	(16)
		Or		
	(b)	Explain the classification of major equipment.	CO3- U	(16)
19.	(a)	Explain the quality control and its implementation in construction.	CO4 - U	(16)
		Or		
	(b)	Explain the statistical quality control with sampling by attributes.	CO4- U	(16)
20.	(a)	Explain in detail about the various types of financing for construction projects.	CO5- U	(16)
		Or		
	(b)	Explain in detail about the capital budgeting and its techniques.	CO5- U	(16)