## **University of Mumbai Examination June 2021**

## Examinations Commencing from 1st June 2021

Program: Civil Engineering Curriculum Scheme: Rev2016 Examination: BE Semester VIII

Course Code: C 802 and Course Name: Construction Management

Time: 2 hour Max. Marks: 80

Q1.	Choose the correct option for following questions. All the Questions are ompulsory and carry equal marks				
1.	Frederick W. Taylor introduced a system of working known as				
Option A:	line organisation				
Option B:	line and staff organisation				
Option C:	functional organisation				
Option D:	Effective organisation.				
2.	The first stage of a construction, is				
Option A:	Preparation of estimate				
Option B:	Survey of the site				
Option C:	Initiation of proposal				
Option D:	Preparation of tender				
3.	The reduction in project time normally results in				
Option A:	Decreasing the direct cost and increasing indirect cost				
Option B:	Increasing the direct cost and decreasing the indirect cost				
Option C:	Increasing the direct cost and indirect cost both				
Option D:	Decreasing the direct cost and indirect cost both				
4.	The performance of a specific task in CPM, is known				
Option A:	Dummy				
Option B:	Event				
Option C:	Activity				
Option D:	Contract.				
5.	Military organisation is known as				
Option A:	line organisation				
Option B:	line and staff organisation				
Option C:	functional organisation				
Option D:	effective organisation				
6.	Various activities of a project, are shown on bar charts by				
Option A:	vertical lines				
Option B:	horizontal lines				
Option C:	dots				
Option D:	crosses.				

7.	If <i>a</i> is the optimistic time, <i>b</i> is the pessimistic time and <i>m</i> is most likely time of an activity, the expected time of the activity, is
Option A:	, , , , , , , , , , , , , , , , , , ,
, p	$\frac{a+m+b}{6}$
Option B:	
	$\frac{a+2m+b}{6}$
	6
Option C:	
	a + 4m + b
	6
Option D:	
	a + 5m + b
	6
8.	The time by which activity completion time can be delayed without affecting the
	start of succeeding activities, is known as
Option A:	duration
Option B:	total flat
Option C:	free float
Option D:	interfering float.
0	
9.	The time which results in the least, possible construction cost of an activity, is
Ontion A:	normal time
Option A: Option B:	slow time
Option C:	crash time
Option D:	standard time
Option D.	Standard time
10.	Bar charts are suitable for
Option A:	minor works
Option B:	major works
Option C:	large projects
Option D:	large work
11.	EOQ is related with
Option A:	Quantity
Option B:	Quality
Option C:	Time
Option D:	Money
12.	The two most basic inventory questions answered by the typical inventory model
14.	are
	timing and cost of orders
Ontion A:	immis and cost of orders
Option A:	
Option B:	quantity and cost of orders
_	

1.2	WI: 1 C4 C11 : 44 4 1 4 DC 1 : : C1 2					
13.	Which of the following statements about ABC analysis is false?					
Option A:	ABC analysis is based on the presumption that controlling the few most important					
	items produces the vast majority of inventory savings.					
Option B:	In ABC analysis, "A" Items are tightly controlled, have accurate records, and					
	receive regular review by major decision makers.					
Option C:	ABC analysis is based on the presumption that all items must be tightly controlled					
	to produce important cost savings.					
Option D:	In ABC analysis, "C" Items have minimal records, periodic review, and simple					
	controls					
1.4	In time cost antimization of a majest smalling is done					
14.	In time-cost optimization of a project, crashing is done.					
Option A:	On all the activities					
Option B:	On all the activities lying on the critical path					
Option C:	Only on activities lying on the original critical path and having flatter cost slopes					
Option D:	On original critical activities and those that become critical at any stage of					
	crashing in the order of ascending cost slope					
15.	Which cost is not included in direct accidents costs?					
Option A:						
Option B:	Medical care expenses for injured  Replacement cost of equipment and material damaged in accidents					
Option C:	Decrease in moral which affects productivity.					
Option C:						
Орион Б.	Fees for legal counsel.					
16.	The first method invented for planning projects, was					
Option A:	Bar chart method					
Option B:	Milestone chart					
Option C:	Critical path method (CPM)					
Option D:	Program Evaluation and Review Technique (PERT)					
	18					
17.	Under the OSHA Act, employers are responsible for providing a					
Option A:	Safe workplace					
Option B:	Land					
Option C:	Insurance					
Option D:	Estimation					
18.	In which year did the ISO create the ISO 14000 family of standards?					
Option A:	1956					
Option B:	1966					
Option C:	1978					
Option D:	1996					
19.	Choose the correct date and year on which payment of wages act was passed?					
Option A:	23rd April, 1936					
Option B:	28th March, 1937					
Option C:	25th April, 1937					
Option D:	27th April, 1936					
20.	Under Workmen's Compensation Act, 1923					
Option A:	Individual manager subordinate to an employer cannot act as managing agent.					
Option B:	Managing agent includes an individual manager subordinate to an employer					

Option C:	Only employer can act as managing agent
Option D:	The appropriate government shall appoint managing agent

Q2	Solve any Two Quest	10 marks each			
A	Write a note on Workmen's' Compensation Act.				
	activities.	t network. ed duration, sta	andard deviation	ow: and variance of all roject with 84.13%	
В	Activities 1-2 1-3	to 1	tm 1 4	tp 7	
	1-4 2-5	2	2	8	
	3-5 4-6	2 2	5 5	14 8	
	5-6	3	6	15	
C	Explain Job layout & 1	Requirements	for preparation of	f site lavout	

Q3	Solve any Two Questions out of Three				10 marks each		
	Activities of small cobelow:	onstruction	on project	ts and its	sequence	es is as giv	ven .
	Activity	A	В	С	D	Е	F
	Preceding Activity	-	-	A	A	B & C	D & E
A	Duration	18	22	10	14	6	12
	<ul> <li>Draw a network and find total project duration and critical path.</li> <li>Calculate all types of floats</li> </ul>						
В	Write a note on A-B-C analysis						
С	Explain General Principles of Management by Henry Fayol.						