

These are sample MCQs to indicate pattern, may or may not appear in examination

**Mahatma Education Society's
Pillai HOC College of Engineering and Technology**

Program: BE Civil Engineering

Curriculum Scheme: Revised 2016

Examination: Third Year Semester V

Course Code: CEC802 and Course Name: Construction Management

Time: 1hour

Max. Marks: 50

Note to the students:- All the Questions are compulsory and carry equal marks .

Sr. No.	Question	Option1	Option2	Option3	Option4
1	Module 1 : Introduction to Construction Management				
1	Which of the following statement is not True	Unity of command suggests that one employee should have only one boss and should receive	Unity of Direction suggest that there should be only one leader and one plan for series of	Unity of Direction suggest that one employee should have only one boss and should receive	Scalar chain of command specifies route through which the information is to
2	According to Mr. Henry Fayol order shd	In favor of person & under rules of organization	Acceptable & under rules of organization	Same for everyone & under rules of superior	According to superior
3	Maslows need theory is based on	organization needs	market needs	human needs	government needs

4	Match the following List I	A. Gang Plank Policy B. Centralisation C. Esprit de Corps D. Unity of Direction	List II	A - iii, B - i, C - iv, D - ii	A - ii, B - i, C - iv, D - iii	A - iii, B - iv, C - i, D - ii	A - ii, B - iv, C - i, D - iii
5	The managerial function of crystallizing objectives, collecting and	Planning	Leading	Controlling	Organizing		
6	F W Taylor adopted scientific methods	to increase the productivity and greater efficiency in production	Getting things through and with people in formally organized	Both are correct	Both are incorrect		
7	Fayol's principle of division of work can be applied to	Technical work	Mangerial Work	Technical and managerial work	None		
8	According to Taylor the most suitable cause of fatigue resulted due to hindrances in good performace	Doing unsuitable work	Long working hours	Non cordial relations with boss	All options are correct		
9	Which of the following option is incorrect about Taylor's philosophy ?	optimization and simplification of job increases productivity	change in attitude and thinking of the management and workers	Development of worker	Protection of property and asset		
10	Staffing is related to the function of	Hiring & Keeping suitable work force	Authority	Control	Directing		
11	Who said Management is an Art of knowing what you want to do and then seeing that it is done the best and	Henry Fayol	Harold Koontz	F.W. Taylor	G. E. Milward		
12	Which of the resource of construction industry in our country is second	fund	labour	material	machinery		
13	Authority comes with	Control	Responsibility	Initiative	Centralisation		
14	Time study given by the	Prof. Charles Babbage	F.W. Taylor	James Watt	Henry Fayol		

15	Construction industry involves the following percentage of expenditure in each 5 year plan	About 40 %	About 50 %	More than 70 %	Less than 35 %
2	Module 2 : Construction Projects				
1	Notice inviting tender is published in which phase of construction project?	Commissioning	Construction	Tendering	Briefing
2	Which of the following is not a function of construction management?	planning	scheduling	staffing	tendering
3	Which type of construction projects is not termed as infrastructure construction projects?	high way	high rise building	bridge construction	nuclear power plant construction
4	Which of these is not a duty of owner in construction project?	To provide necessary land or site	To provide necessary plans and	To execute work as per specification	To arrange funds required
5	What is the significance of Unity of Command as principle of organization?	Employee should be able to work independently	Employee should work in team unity	Employee should know to whom he is answerable	None of the above
6	In which of the following situation construction management is not needed?	To co-ordinate between different agencies	To bid for the tender	To achieve speed and economy in construction	To control quality of materials and workmanship
7	Indian Construction Industry contributes more than ----- % to	5	10	8	7
8	Banks and shopping center comes under	Infrastructure sector	Real Estate Sector	Industrial Sector	Development Sector
9	Which stage aims at processing the project preliminaries/required resources so as to enable seamless	Formulation stage	Ecological Stage	Mobilisation stage	Construction stage
10	Which stage of the project management life cycle needs the maximum time of	Conceptualization	Planning	Execution	Termination
11	The Sponsor, the Owner and the User are the three constituent stakeholders of	Project Owner	Project Organization	Project Society	Project Manager

12	One of the reasons a project life cycle is split into phases:	facilitate formal go/no-go decision making during the project	balance the costs of work in each phase of project development	mirror the major deployments of resources throughout the	none options are valid
13	Which one of the following statements best defines teamwork	People working collaboratively towards a common goal	Developing skills that will enhance project performance	Establishing vision and direction towards a common purpose	none options are valid
14	Correct order for phases of construction management are A.	A -B- C	B -A - C	C - A - B	B -C- A
15	Planing by contractor involves	Pretender Planning	Contract Planning	Pretender Planning and Contractor	Strategic Planning
16	Choose wrong option related to the preplanning stage of construction	Preplanning includes preparation of detailed design, detailed working drawings, specifications and detailed bill of quantities.	Preplanning includes formulation of a general framework of the project , justification for taking up the project.	Preplanning includes cost benefit analysis and work out of investment alternatives.	Preplanning includes work out of economic viability of the project
17	i. Project viability depends on technical economical, financial and ecological analysis. ii. Ultimate aim of plan is to achieve the objective, result or goal. iii. Project planning gives quantity of work involved ,labour, materials and equipment for each	i, ii, iii are correct and iv is incorrect	i, ii, iv are correct and iii is incorrect	ii,iii, iv are correct and i is incorrect	ii,iii, iv are correct and i is incorrect
3	Module 3 : Construction Project Planning and Scheduling				
1	The particular task performance in	Dummy	Event	Activity	Contract.

2	Activities P, Q and R instantly follow activity M, and their current start times are 12, 19, and 10. Therefore, the latest finish time for activity M is	12	10	19	Cannot be specified
3	A PERT network is _____-oriented while a CPM network is _____- oriented respectively	event , activity	activity, event	float, slack	dummy , critical
4	The difference between the time available to do a job and the time	event	float	duration	constraint
5	A Milestone chart	shows the interdependencies of various jobs	depicts the delay of jobs, if any	points outgoing ahead of schedule of jobs, if any	advantage over Barchart
6	Research and development Project requires 29 months for its completion. Variance of the project is 25, what is the scheduled duration for 90%	37.58	36.15	32.22	31.9
7	Slack refers to _____	Activity	Activity and event	Events	Project
8	Which of the statement is not correct w	Interdependencies of activities is not known	Project progress can not be monitored	Uncertainties can not be identified	Bar chart can be used for large projects
9	Activity interdependency and durations for a small project are as follows calculated the project duration. The network is drawn as per given key data (Activity, [Successor A . . . T . . . 1 2 3 4 5 6 7 8 9 10])	8 days	9 days	10 days	11 days
10	When you can say that activity is critical	Free float is zero	Total float is zero	Independent float is zero	Interfering float is zero

11	Activity interdependency and durations for a small project are as follows find the critical path. (Activity, [Preceding Activity], duration days). (A,[first],5) , (B,[A],2) , (C,[A],6) , (D,[B],12) , (E,[D],10), (F,[D],9), (G,[D],5), (H,[B],9), (I,[C,E],1), (J,[G],2),	A-B-D-E-I-K-L	A-B-H-M-N	A-B-D-G-J-K-L	A-B-D-F-K-L
12	Activity interdependency and durations for a small project are as follows. The project duration is ____ and total float for activity D is ____ . (Activity, [Preceding Activity], duration days). (A,[first],5) , (B,[A],2) , (C,[A],6) , (D,[B],12) , (E,[D],10), (F,[D],9), (G,[D],5), (H,[B],9),	48,2	42,2	42,0	48,0
13	The area under the Beta distribution curve is divided into two equal parts	Most likely time	Optimistic time	Pessimistic time	Expected time
14	Which of the following is project	PERT	Cost estimate	EOQ	ABC
15	Which of the following is limitation of bar chart?	It shows the interdependancies between various activities in the project.	The progress of work in project can be monitored scientifically.	Delays in work can be detected	It cannot be used as controlling device by project manager to take any timely action.
16	For PERT the following statements hold true	PERT is probabilistic approach	PERT is deterministic approach	PERT network has a critical path corresponding to 100 per cent probability of completion of project	PERT is for activities repetitive in nature
17	The work breakdown structure is constructed so as to aid	To plan of the project	To show hierarchy in the organization	To break down the existing structure	To review the project

18	A road project is to have a concrete mix design of M25, the contractor is adding 100 bags of cement per 10 cubic metre of concrete. As the in charge PWD officer please specify if the quantity of cement added is as per specification.	The bags of cement added are insufficient in quantity as per strength	The bags of cement added are sufficient in quantity as per strength	The bags of cement added are additional in quantity as per strength	Any quantity of bags of cement can be added
19	An activity is to have a concrete mix The independent float affects only preceding activities	preceding activities	succeeding activities	particular activity involved	none of above
20	An activity is to have a concrete mix design of M20, the labour contractor is allocating a team of 12 labour gang for 20 cubic metre of concrete. Specify the days in which the work for 20 cubic metre of concrete will be completed. (24 no of labours are required for 10 cubic metre of	The work will be completed in 4 days	The work will be completed in 3 days	The work will be completed in 2 days	The work will be completed in 1 days
4	Module 4 : Resource Management and Allocation				
1	All of the following statements about ABC analysis are true except	inventory may be categorized by measures other than dollar volume	it states that all items require the same degree of control	it categorizes on-hand inventory into three groups based on annual dollar volume	it is an application of the Pareto principle
2	Which of these is not a policy for inventory control?	Two bin system	Material type replacement policy	Lot size reorder point policy	Fixed order interval scheduling policy
3	_____ is the primary factor considered while implementing inventory control policy.	Maximum inventory	Reorder point	Lead time	Minimum stock level
4	In material management EOQ stands for _____.	Economic Order Quantity	Economic Order Quality	Early Order Quantity	Easiest Order Quantity
5	In selective inventory control which method is based on material's classification	ABC Analysis	MEP Analysis	FSN Analysis	VED Analysis
6	Material management and process which are concerned with	Storage of material	Supply of material	Production of Material	Procurement of material

7	Inventory control can be achieved by the following methods	Providing a suitable and reliable supplier	Up-to date and accurate information	Providing definite information	Identifying the supplier
8	A-B-C analysis is	For choosing proper supplier	Used for stock taking	Basic tool for establishing economic stock	Used for obtaining the lead time
9	In an interview, the interviewer should	Speak more	Listen all the time	Speak 25 % and listen 75 %	Speak for about 50 % of time
10	Middle management level training in construction should cater for	Better financial management	Accounts management and computer skills	First aid method	Improving technical skills
11	Statement I Human resource development manager plays a crucial role in convincing the operating staff to adopt the change. Statement II Effective supervision is an activity of management.	Only Statement I is correct	Only Statement II is correct	Both are correct	Both are incorrect
12	Factors influencing the Human Resource Management of an organisation are i) Composition of work force ii) Change in technology iii) Employee Expectations iv) size of organization	i), ii) and iii)	i), ii) and iv)	ii), iii) and iv)	i), iii) and iv)
13	what is revenue	inflow of funds	outgoing of funds	payment to workers	Expenditure
14	Executive take full part in the strategic planning and development	training and development	humane resources	quality control	production
15	materials management objective does not	flow of supply	record keeping	conservation of materials	drawing
16	In ABC Analysis which statement is true	C most valuable items	B- least valuable item	A less than B and more than C	A most valuable item
5	Module 5 : Project Monitoring and Cost Control				

1	Updating may result in	Change of critical path	Decrease of project completion time	Increase of project completion time	All options are correct
2	In a construction project, the cost-slope of an activity is an indication of	Extra-time needed per unit cost	Extra cost needed per day	Reduction of duration of critical activity	Crashing of an activity
3	Probability of finishing project earlier than the expected time is	50%	less than 100%	more than 50%	less than 50%
4	What is the process of incorporating changes and rescheduling or replanning called?	Resource allocation	Resource levelling	Resource smoothing	Updating
5	Crash cost of the activity is Rs 3000/-, Normal cost of the activity is Rs 2000/-, Crash time is 5 days and normal time is 7 days, Cost slope of the activity is	1000	2000	3000	500
6	Cost that is incurred on Converting resources into assets is called as	Direct cost	Indirect Cost	Total cost	Crash Cost
7	In general, direct cost	Decreases as the time decreases	Increases as the time decreases	Varies erratically with time	Is independent on time
8	The time beyond which the direct cost will not reduce with the increase in time is	Normal time	Crash time	Optimistic time	Optimum time
9	Document which provides estimating cost process with the details about the estimating budget	Project schedule	Human resources plan	Scope baseline	All of these
10	Document which provides estimating cost process with information about the activities time and quantity of	Scope baseline	Risk register	Project management costs	Project schedule
11	Methods of Updating	task	work level	integration	summarizing the w
12	construction progress reports includes	resource levelling	progress photos	liabilities	balance sheet
13	crashing is	the description of the stages of construction project	shortening of the project schedule	summarizing the wo	flow chart

			identifying the sources of income	Supervising	modification
14	benefits of record keeping	identifying the assets			
15	Three-activities implementable in parallel, have the following time-cost relationship for direct cost component in each, Activity A: 8 days-800 units; 7 days-900 units; 6 days-1000 units, Activity B: 9 days-1200 units; 8 days-1350 units; 7 days-1500 units, Activity C: 5 days-500 units; 4 days-700 units; 3 days-900 units. For all the activities		2500	2650	2700
6	Module 6 : Construction Safety, Quality Control and Labour Legislation				
1	Which one theory have not been developed to understand and explain	Heinrich Theory	Collision Theory	Ferrel's Theory	Vincoli Theory
2	As per the Heinrich theory, 88 % of accidents were attributable to	unsafe physical condition	unsafe mechanical condition	unsafe act	natural calamities
3	which cost is not include in direct accident	Medical care expenses for injured.	equipment and material damaged in accidents.	Decrease in moral which affects productivity.	Fees for legal counsel.
4	Legislation in construction industry is necessary for	Fixing the terms of employment and working conditions	Providing special security	Maintaining cordial relationship between the employers and	All option are correct
5	Construction safety is important because of	Economic reasons	Humanitarian concern	Medical expenses	Both (a) and (b)
6	The Factories Act (1970, 1986) provide for	Proper working conditions	Safety in workings	Proper working hours	Leave benefits
7	The Contract Labour Act (1970, 1986) deals with	Contractors	Improving the conditions of	Ventilation and lighting	Canteen facilities

8	The social security of workers is guaranteed by	Factories Act	Labour welfare fund Act	Workmen's compensation Act	Both option A & Option C
9	Match the following List I A. IS 4912 - 1978 B. IS 3696 1966 C. IS 4130 1976 D. IS 5121 1966 List II i. Safety code for piling and deep foundation ii. Safety code for demolition of buildings	A -iv, B - iii, C- ii, D - i	A -iv, B - ii, C- iii, D - i	A -iii, B - i, C- ii, D - iv	A -iii, B - ii, C- i, D - i v
10	types of cost of accident	price	value	direct cost	purchase
11	precautionary measurre to avoid accid	wages pay regularly	safety training	reduce productivity	supervision
12	quality control chart	bar chart	mile stone chart	pareto chart	maslow chart
13	Who is the Guru of Quality	Henry Fayol	Abraham Harold Maslow	Joseph M Juran	G. E. Milward
14	Factories Act passed in	1848	1948	1972	1882
15	Exclusion from minimum wages Act	factories	industrial units	construction site	unscheduled indust
16	The cost of accidents does not include	Tangible cost	Intangible cost	Housing rent	Medical cost
17	Which of the mentioned occupational health hazards is not related to construction industry	Asbestos-related diseases	Hepatitis	Silica-related diseases	Noise-induced hearing loss

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