Examination 2020 under cluster 4 (PCE)

Program: BE Mechanical Engineering Curriculum Scheme: Rev2016 Examination: Fourth Year Semester VII Course Code: MEC703 and Course Name: Production Planning and Control

Time: 1 hour

Max. Marks: 50

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

Q1.	Which of the following is a Production Planning activity?	
Option A:	Routing	
Option B:	Dispatching	
Option C:	Expediting	
Option D:	Corrective action	
Q2.	It guides and directs the flow of production so that products are manufactured in the best way and conforms to a planned schedule and are of the right quality. Also it facilitates the task of manufacturing and sees to it that everything goes as per the plan.	
Option A:	Production Planning	
Option B:	Production Control	
Option C:	Production Planning and Control	
Option D:	Process Planning and Control	
Q3.	The level of PPC activity is simplest in which of the following cases?	
Option A:	Job Production	
Option B:	Batch Production	
Option C:	Mass Production	
Option D:	Flow Production	
Q4.	Time series analysis is most effective when used interm forecasts.	
Option A:	Indefinite	
Option B:	Long	
Option C:	Short	
Option D:	Medium	
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Q5.	In an assembly line, when the workstation times are unequal, the overall production rate of an assembly line is determined by the:	
Option A:	Fastest station time	
Option B:	Slowest station time	
Option C:	Average of all station times	
Option D:	Average of slowest and fastest station times	
Q6.	For a sports equipment manufacturer the long-term outlook is that demand will exceed capacity and in the short-term demand equals capacity. What decision should the operations manager take about recruitment and training of new operatives?	

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Option A:	Make product for inventory.	
Option B:	Work overtime and hire temporary staff.	
Option C:	Delay action.	
Option D:	Hire staff and make product for inventory.	
Q7.	For a hospital, which of the following is NOT an output measure of capacity?	
Option A:	The number of beds available.	
Option B:	The number of items sold in the hospital shop.	
Option C:	The number of patients treated by the A&E department.	
Option D:	The number of scans provided.	
Q8.	Measurement has revealed the following information on an operations system. Design capacity was 84 units per hour, planned losses were 12 units per hour.	
	and actual output was 65 units per hour. What were the utilisation and efficiency of the operation respectively?	
Option A:	77% and 90%	
Option B:	77% and 84%	
Option C:	54% and 92%	
Option D:	68% and 83%	
Q9.	In conventional economic batch size, important assumption is	
Option A:	Constant lead time	
Option B:	Constant demand	
Option C:	Variable demand	
Option D:	Variable lead time	
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Q10.	If EOQ = 1000 units, order costs are Rs.400 per order, and sales total 100 units	
	If EOQ = 1000 units, order costs are Rs.400 per order, and sales total 100 units per day, what is the carrying cost per unit per day?	
Option A:	If EOQ = 1000 units, order costs are Rs.400 per order, and sales total 100 units per day, what is the carrying cost per unit per day? 0.075	
Option A: Option B:	If EOQ = 1000 units, order costs are Rs.400 per order, and sales total 100 units per day, what is the carrying cost per unit per day? 0.075 0.08	
Option A: Option B: Option C:	If EOQ = 1000 units, order costs are Rs.400 per order, and sales total 100 units per day, what is the carrying cost per unit per day? 0.075 0.08 0.06	
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Q10. Option A: Option B: Option C: Option D: Q11.	If EOQ = 1000 units, order costs are Rs.400 per order, and sales total 100 units per day, what is the carrying cost per unit per day? 0.075 0.08 0.06 0.9 Conventional Economic Order Quantity(EOQ)	
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Q13.	Which of the following is not a feature of planning	
Option A:	planning is futuristic	
Option B:	planning is pervasive	
Option C:	planning sets standards for controlling	
Option D:	planning focuses on achieving objectives	
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Q14.	Benefits of computer aided process planning	
Option A:	increase process planning time	
Option B:	Increase productivity	
Option C:	decreased high flexibility	
Option D:	produced error in plans	
Q15.	Macro process planning includes	
Option A:	review of common machining processes	
Option B:	process optimization	
Option C:	optimum tool path	
Option D:	prediction of machining performance	
Q16.	Which one of the following chart gives simultaneously information about the	
	progress of work and machine loading?	
Option A:	Process chart	
Option B:	Machine load chart	
Option C:	Man-machine chart	
Option D:	Gantt chart	
017		
Q17.	PERT and CPM are	
Option A:	techniques to determine project status	
Option B:	decision making techniques	
Option C:	Charts which increase aesthetic appearance of rooms	
Option D:		
019	The critical path of a natural represente	
Q18.	The childer pain of a network represents	
Option A:	the maximum time required for completion of project	
Option B:	meximum cost required for completion of project	
Option C:	maximum cost required for completion of project	
Ortion Di	minimum cost required for completion of project	
Option D:	minimum cost required for completion of project	
Option D:	minimum cost required for completion of project Slack of various events on the critical path in PEPT/CPM chart	
Option D: Q19.	minimum cost required for completion of project Slack of various events on the critical path in PERT/CPM chart increases continuously	
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Option D: Q19. Option A: Option B:	minimum cost required for completion of project Slack of various events on the critical path in PERT/CPM chart increases continuously decreases continuously may increase or decrease depending on various factors	
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Option D:	Commissioning time can be changed, if activities are behind schedule.		
Q21.	Which of the following statements is true?		
Option A:	The standard deviation of a project completion time is the sum of the standard deviations for the critical path activities		
Option B:	Three time estimates are necessary so that we can estimate the parameters of the Beta distribution		
Option C:	The variance of the time taken to complete an activity is equal to $(b - a)/6$.		
Option D:	The critical path is the path with the largest probability of being completed on		
- F	time.		
Q22.	Use the information presented in the following figure to do the following: Determine the quantities of D needed to assemble one X. Level B(2) C C C C C C C C		
Option A:	5		
Option B:	6		
Option C:	8		
Option D:	3		
Q23.	Theis the MRP input detailing which end items are to be produced when they are needed and in what quantities		
Option A:	master production schedule		
Option B:	gross requirements		
Option C:	inventory records		
Option D:	assembly time chart		
Q24.	In continuous operations, the master production schedule is usually expressed in		
	terms of		
Option A:	end items		
Option B:	modules		
Option C:	kits		
Option D:	customer orders		
Q25.	Enterprise Resource Planning is		
Option A:	severely limited by current MRP computer systems		
Option B:	not related to MRP		
Option C:	an advanced MRP II system that ties in customers and suppliers		
Option D:	not currently practical		

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Question	Correct Option (Enter either 'A' or 'B' or 'C' or 'D')
Q1.	А
Q2.	В
Q3.	D
Q4	С
Q5	В
Q6	D
Q7	А
Q8.	А
Q9.	В
Q10.	В
Q11.	В
Q12.	А
Q13.	С
Q14.	В
Q15.	А
Q16.	С
Q17.	D
Q18.	В
Q19.	D
Q20.	С
Q21.	В
Q22.	В
Q23.	А
Q24.	D
Q25.	С