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3	Ho	urs	/	70	Marks	Seat	No.							
	Instru	ctions	_	(1)	All Questions	are Comp	oulsory.							
				(2)	Answer each	next main	Quest	tion	on a	a ne	ew	pag	ge.	
				(3)	Illustrate your necessary.	answers	with n	eat s	keto	ches	w	here	ever	
				(4)	Figures to the	e right ind	icate f	ùll n	nark	S.				
				(5)	Assume suitab	ole data, it	f neces	ssary.						
				(6)	Use of Non-p Calculator is	orogrammal permissible	ble Ele e.	ectroi	nic	Poc	ket			
				(7)	Mobile Phone Communicatio Examination I	, Pager an on devices Hall.	nd any are no	othe ot pe	er E rmis	lect	ron le i	ic n		
													Ma	rks
1.		Atter	npt	any	<u>FIVE</u> of the	following	•						1()
	a)	Define method study.												
b) State any four application of 'Ergonomics' in areas of garm industry.						mer	nt							
	c)	Classify control charts on the basis of attributes and variables.												
	d)	State	an	y fou	r objectives of	f PPC.								
	e)	State	Fu	lkerse	on's rule of ne	twork con	structio	ons.						
	f)	Enlis	t ar	ny fiv	ve types of ma	intenance.								

g) Define 'Maintenance cost index'.

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Marks

12

12

2. Attempt any THREE of the following.

- a) Draw non-type process flow chart for collar making.
- b) Enlist macro and micro level PPC functions and explain any one.
- c) Explain P-chart and nP-chart with example.
- d) Explain graphical analysis of Margin of safety.

3. Attempt any THREE of the following. 12

- a) Explain performance rating and allowances.
- b) State C.L., UCL, LCL with respect to \overline{X} and \overline{R} charts.
- c) Explain direct material cost and direct labour cost.
- d) Explain equipment utilization and manpower efficiency.

4. Attempt any THREE of the following.

Explain AON and AOA in network construction with suitable

b) Explain 'Motion Study'.

example.

a)

- c) Give significance of profit-volume ratio and graph in break-even analysis.
- d) Explain concept of cost, cost centre and cast unit.
- e) Explain concept of maintenance performance evaluation with suitable example.

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5. Attempt any TWO of the following.

Elements	Cycle Time in min.					
	1	2	3			
А	1.3	6.5	11.2			
В	2.00	6.2	12.5			
С	4.5	10.15	14.5			

a) Calculate standard time for following data:

- b) Explain "Acceptance Sampling" with suitable example.
- c) Consider following activity times in a project of a garment industry.

Activity	Time (Days)	Predecessor Activities
А	3	_
В	4	_
С	5	А
D	6	В
Е	7	С
F	8	С
G	9	D, E

- i) Find a critical path.
- ii) Compute the project completion time.
- iii) Compute the total floats and free floats for the activities.

6. Attempt any <u>TWO</u> of the following.

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- a) Explain three time estimates in PERT.
- b) Explain advantages and limitations of break-even analysis.
- c) Describe various costs of maintenance and state advantages of maintenance.