22573

1	192()											
3	Но	urs /	70	Marks	Seat	No.							
Instructions – (1) All Questions are Compulsory.													
			(2)	Answer each	next main	Ques	stion	on	a ne	ew	pag	e.	
			(3)	Illustrate you wherever nec	r answers v essary.	with 1	neat	skete	ches				
			(4)	Assume suita	ble data, if	nece	essar	у.					
			(5)	Mobile Phone Communication	e, Pager an on devices Hall.	d any are n	y otł not p	ner E ermi	lect	roni le i	ic n		
]	Ma	rks
1		A 44 4			6.11.								10
1. Attempt any <u>FIVE</u> of the following:						10							
	a)	Denne D	SOP.										
b) Define 'time study'.c) State objectives of SQC in apparel industry.													
			es of SQC in	apparel in	dustry	у.							
	d) Define produc			ction control.									
	e)	Enlist ar	ny fo	ur types of ev	vents.								
	f)	State ne	ed of	maintenance.									
	g)	Enlist va	arious	s costs associa	ited with m	nainter	nanc	e.					
2.		Attempt	any	THREE of t	the followi	ng:							12
	a)	Analyze	vario	ous types of a	llowances	in tin	ne st	udy.					
	b)	Compare	e proo	duction planni	ng with pro	oducti	ion c	contro	ol.				
	c)	State the	e Full	kerson's rule t	o number	the ev	vents	in	netw	ork			
	d)	Explain	assur	nptions and u	ses of Brea	ık-eve	en po	oint.					

3. Attempt any THREE of the following:

- a) Explain application of Ergonomics in garment industry with 2 suitable examples.
- b) Analyze functions of PPC.
- c) Analyze components of production cost for basic formal men's shirt.
- d) Explain evaluation of maintenance performance with calculation of TPMP and down time index.

4. Attempt any <u>THREE</u> of the following:

Cycles Elements (Time in min.) \downarrow 1 2 3 2.1 2.1 1.9 Α В 0.8 0.9 0.9 С 3.5 3.6 3.8

a) Calculate standard time from given data -

- (i) Assume performance rating as 90% except element C is m/c element.
- (ii) Assume contingency allowance 15% and relaxation allowance 2%.
- b) Compare CPM with PERT.
- c) Calculate B.E.P. in terms of units for following data -
 - (i) Land and buinding \rightarrow 9 lakhs.
 - (ii) Sales revenue \rightarrow 20,000/- for 100 shirts.
 - (iii) Variable cost \rightarrow 2000/- for 100 shirts.
- d) Give significance of P_V ratio
- e) Analyze significance of maintenance in garment industry with 2 suitable examples.

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5. Attempt any TWO of the following:

- a) Explain principles of motion economy.
- b) Organise the day-wise PPC schedule for 10,000 basic formal shirts to be delivered after 30 days.
- c) Construct the network from given data -

Activity	Predecessors	Activity time (weeks)
А	_	4
В	А	3
С	А	2
D	В	5
Е	В	3
F	C, D	4
G	E, F	3

and find critical path.

6. Attempt any TWO of the following:

a) A small project is composed of following activities with time estimates -

Activity	То	Tm	Тр
1 - 2	1	1	7
1 - 3	1	4	7
1 - 4	2	2	8
2 - 5	1	1	1
3 - 5	2	5	14
4 - 6	2	5	8
5-6	3	6	15

- (i) Construct a network and find critical path.
- (ii) Calculate standard deviation of project.
- b) Explain concept of B.E.P with graphical representation and state its advantages.
- c) Explain methodology of condition based maintenance.

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