## QUESTION 2012

Group - A

1. Choose the correct alte	rnatives for the fall-	Type Questions)						
) Tactical planning is don	e over a	i:	Make the latest the second					
a) long time horizon	The transfer to age to a	Total Control of the						
√c) short time horizo	on .	b) medium time horizon						
		d) none of these						
ii) TQM stands for	The state of the s	The state of the s	HAP IN THE STATE OF THE					
a) Total Quantity Mar	nagement	The country of	The state of the s					
c) Total Qualitative M	lanagement	✓b) Total Quality Management d) None of these						
	goment							
iii) Process layout is also	called		Section 1					
a) straight-line layout	<b>建设</b> 经营业	b) lovered for an and all all	· 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.					
✓c) functional layout		b) layout for serialized manufacture						
-14 Ec 14 _ 1	4 4	d) all of these	and the second					
iv) Break-down maintena	nce is a form of	100 10						
✓a) corrective maintenance c) predictive maintenance		b) preventive maintenance d) routine maintenance						
v) The symbol □ in metho	d study indicates		Camadon of Andrews					
a) Operation	b) Transportation	✓c) Inspection	d) Storage					
n ian 2 a		part to the same	SI WAS IN SUPPOSED					
	ed in	of material handling system	? mally need get					
a) Industrial trolleys	✓b) Conveyors	c) Industrial trucks	d) Wheel Barrow					
		Sharate and Sa						
vii) Standard time is equa	l to	The Will all the state of						
a) normal time		b) average time						
c) average time + all	발인 선생님, 전체 전쟁이 지는 교육 보통에 가르게	√d) normal time + allo						
viii) Time allowed to an o	perator to carry out a s	pecified task under specifie	ed condition and at the					
defined level of performa								
a) observed time	b) normal time	√c) standard time	d) none of these					
-/ 42001 400 tillio		(main ter de Anni Consid	a till investment of					

a) Line Balancing		overnents could be classified according to Gilberth into
c) Controlled Movements  d) Cycle Time  x) Low product variety and high production volume are characteristics of a) Job shop production  c) Mass production  d) none of these  x) Ship building industry will be best fitted for a) Process layout  b) Product layout  c) Fixed position layout  d) none of these  xi) Gantt chart is used for a) inventory control  c) production schedule  Group - B  (Short Answer Type Questions)  2. Distinguish between Inspection and Quality control.  See Topic: INSPECTION AND QUALITY CONTROL, Long Answer Type Question No. 1.  3. Highlight the concept and importance of work measurement.  See Topic: WORK STUDY, Short Answer Type Question No. 9.  4) a) Pinpoint the differences between process and product layout. b) Name two major criteria for a good plant layout.  See Topic: PLANT LOCATION AND LAYOUT, Short Answer Type Question No. 3(a) & (b).  5. Discuss the factors you would consider for selection of Materials Handling Equipment.  See Topic: PLANT MAINTENANCE AND MATERIALS HANDLING, Short Answer Type Question No. 5.  (6) State the principle of X-bar chart, and its use in statistical quality control.  See Topic: INSPECTION AND QUALITY CONTROL, Long Answer Type Question No. 4(b).  Group - C  (Long Answer Type Questions)  7. a) Define production planning and control. b) Discuss briefly the steps involved in production control process. c) Write a note on line balancing technique.	그래요 그 그는 사람 생각을 받는 그 가는 그는 그가 있는 그 사람들 아이들이 한 것을 가져왔다면 가셨다.	Z. 7L
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c) Write a note on line balancing technique.	b) Discuss briefly the steps involved in prod	luction control process.
	c) Write a note on line balancing technique.	영문하는 해당이 좋는데 아래를 다리고 있다면 다

- a) See Topic: PRODUCTION PLANNING AND CONTROL, Long Answer Type Question No. 4(a).
- b) See Topic: PRODUCTION PLANNING AND CONTROL, Long Answer Type Question No. 4(b).
- c) See Topic: MISCELANOUS, Long Answer Type Question No. 1.
- 8. a) Explain any three methods of Location model.
- b) State the relative importance of Location factors.
- c) A company has to decide on the location of a new plant. It has narrowed down the choice to 3 locations A, B and C, data in respect of which is furnished below:

Data	Locations				
Data	A (Rs.)	B (Rs.)	C (Rs.)		
Wages and Salaries	20,000	20,000	20,000		
Power and water supply expenses	20,000	30,000	25,000		
Raw materials and other supplies	80,000	75,000	60,000		
Total initial investment	2,00,000	3,00,000	2,50,000		
Distribution expenses	50,000	40,000	60,000		
Miscellaneous expenses	40,000	25,000	30,000		
Expected sales per year	2,25,000	2,50,000	2,25,000		

Use a suitable criterion and advise the company on the best choice.

- a) See Topic: PLANT LOCATION AND LAYOUT, Long Answer Type Question No. 6(a).
- b) See Topic: PLANT LOCATION AND LAYOUT, Long Answer Type Question No. 6(b).
- c) See Topic: PLANT LOCATION AND LAYOUT, Long Answer Type Question No. 3.
- 9 a) Discuss in brief the various categories of maintenance undertaken in plants.
- b) A machine is set to deliver packets of a given weight. Ten samples of size 5 each were recorded. The mean and the range of individual samples are given below:

Sample No.	1	2	3	4	5	6	7	8	9	10
Mean $\overline{X}$	15	17	15	18	17	14	18	15	17	16
Range R	7	7	4	9	8	7	12	4	11	5

Calculate the values for the central line and the control limits for mean chart and the range chart and comment on the state of control. (Conversion factors for n = 5. are A2 = 0.58, D3 = 0 and D4 = 2.11).

- a) See Topic: PLANT MAINTENANCE AND MATERIALS HANDLING, Short Answer Type Question No. 6.
- b) See Topic: INSPECTION AND QUALITY CONTROL, Short Answer Type Question No. 9.
- 10. a) What is work sampling? What are its merits? A group of 10 workmen working 8 hours per day (one shift) on a group of engine lathes produced 320 pieces of a component. During the study, it was observed that workmen were idle for 20% of the total available time and 80% of the time they worked at an average performance of 75%. Calculate Standard Time for the job assuming:

**BB PM-135** 

- i) the operation to be completely manual
- ii) the workmen are entitled to 20% allowance for this type of work.
- b) Differentiate between gravity and power conveyors.
- a) 1st & 2nd Part: See Topic: WORK STUDY, Short Answer Type Question No. 7.
- 3rd Part: See Topic: WORK STUDY, Long Answer Type Question No. 7.
- b) See Topic: PLANT MAINTENANCE AND MATERIALS HANDLING, Long Answer Type Question No. 3 (2<sup>nd</sup> part).
- 11. Write short notes on any three of the following:
  - a) Kaizen philosophy
  - b) Objectives of work study
  - c) Acceptance sampling
  - d) Aggregate planning
  - e) Space determination in plant layout exercise.
- a) See Topic: INSPECTION AND QUALITY CONTROL, Long Answer Type Question No. 7(a).
- b) See Topic: WORK STUDY, Long Answer Type Question No. 14(e).
- c) See Topic: INSPECTION AND QUALITY CONTROL, Long Answer Type Question No. 4(c).
- d) See Topic: PRODUCTION PLANNING AND CONTROL, Long Answer Type Question No. 5.
- e) See Topic: PLANT LOCATION AND LAYOUT, Long Answer Type Question No. 8.