QUESTION 2013

Group - A

(Multiple Choice Type Questions)

- 1. Choose the correct alternatives for any ten of the following:
- i) Process layout is also called
 - a) Straight-line layout

- √b) Functional layout
- c) layout for serialized manufacture
- d) none of these
- ii) Low product variety and high production volume are characteristics of
 - a) Job shop production

√b) Mass production

c) Batch production

- d) none of these
- iii) Ship building industry will be best fitted for
 - a) Process layout

b) Product layout

√c) Fixed position layout

- d) none of these
- iv) Production planning and control is difficult for
 - a) Mass production

b) Batch production

√c) Jobbing works

d) none of these

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주에서 하는 경영에 나가 하는데 회사는 마리 나는 나는 가게 하지만 아무지에 그 나를 가고 있다면 하는데 나를 하고 있다.	1 개월 - BELL - '' 보는 모든 LL. LL도 그렇게 된 트리스 보고 그렇지 않는 다른 보다 모든 보다 보다 보다 되었다.
Mass production system is adopted when	
√a) volume is large and variety is less	b) volume is small and variety is large
c) both volume and variety are medium	d) none of these
	the part of the second of
vi) O symbol in method study represents	
a) inspection b) operations	c) transportation d) storage
	The state of the s
vii) Mass production system is adopted when	
√a) volume is very large and variety is less	b) volume is small and variety is large
c) both volume and variety are large	d) none of these
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viii) For an integrated steel plant, the plant location	ation decision will be chiefly influenced by the
consideration of	The second of th
	the property of the second
√b) proximity to the raw material supply source	pe -
c) availability of good transportation	the regarding the property of the second
d) all of these	
of an out office to that I have the Paper T	
ix) Production planning and control is difficult for	
a) Mass b) Batch	c) both (a) and (b)
	Arma I
x) IS 9001 is a system for	हेक तक ति है गा र करने हैं कि कहा है कि कि कि कि
✓a) Quality Management	b) Operational Planning
c) Productivity Improvement	d) Preventive Maintenance
A Statistical quality control is done to	in the first transfer of the state of the st
a) prevent any defective product from going o	ut of the factory
✓c) initiate corrective action if quality trend sh	nows an adverse pattern
트리트	and the state of t
Grou	$\mathbf{p} - \mathbf{B}$
(Short Answer	Type Questions)
2. Distinguish between product layout and process	s layout.
See Topic: PLANT LOCATION AND LAYOUT, SI	hort Answer Type Question No. 1.
3. Discuss the significance of statistical quality con	ntrol.
See Topic: INSPECTION AND QUALITY CONTR	OL, Short Answer Type Question No. 1.

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4. A new medical facility, Health-are, is to be located in Delhi. The location factors, factor rating and scores for two potential sites are shown in the following table. Which is the best location based on factor rating method?

Serial No.	Location factor	Factor rating	Rating			
		1800	Location 1	Location 2		
- 1	Facility utilization	8	3	5		
2.	Total patient per month	5	4	3		
3.	Average time per emergency trip	6 🥠 🦏	4.2	5.		
4.	Land and construction costs	3	salty may a	2		
5.	Employee preferences	5	. 5	3,		

See Topic: PLANT LOCATION AND LAYOUT, Short Answer Type Question No. 4.

5. Distinguish between preventive maintenance and predictive maintenance.

See Topic: PLANT MAINTENANCE AND MATERIALS HANDLING, Short Answer Type Question No. 7.

6. Describe five material handling equipment used in a manufacturing concern.

See Topic: PLANT MAINTENANCE AND MATERIALS HANDLING, Short Answer Type Question
No. 8.

Group - C

(Long Answer Type Questions)

- 7. a) What is the relationship between Observed time, Normal time and Standard time?
- b) Define Work Measurement.
- c) Calculate the standard production per shift of 8 hours duration, the Observed time/unit = 5 minutes, Rating factor = 120% and Total allowances = 40% of Normal time.
- a) See Topic: WORK STUDY, Short Answer Type Question No. 1.
- b) See Topic: WORK STUDY, Short Answer Type Question No. 2.
- c) See Topic: WORK STUDY, Long Answer Type Question No. 10.
- 8. a) Compare product layout with process layout.
- b) The workmen in an engineering firm are expected to work for 400 minutes in a shift of 8 hours. The remaining time is meant for rest and personal needs.
- i) Determine the standard time per piece of a job whose normal time is 2 min.
- ii) Calculate the number of pieces to be produced per day.
- iii) If the workmen engaged on the above job produces 180 pieces in a shift, calculate their efficiency.
- c) State the advantages of work sampling over time study.

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See Topic: PLANT LOCATION AND LAYOUT, Short Answer Type Question No. 5.

b) & c) See Topic: WORK STUDY, Long Answer Type Question No. 11.

What do you mean by Production Planning and Control (PPC)? State its main objectives.

b) A random sample of 50 switch boards used in electrical assemblies is taken for inspection each day. After inspection, the number rejected from each sample for 10 consecutive days is given

below:

Days	1	2	3	4	5	6	7	8	9	10
No. of samples rejected	4	3	2	6	3	9:1.7	3	2	9	5

Construct a p-chart and comment on the data collected.

State the principle of X-bar chart and its use in statistical quality control.

- s) See Topic: PRODUCTION PLANNING AND CONTROL, Short Answer Type Question No. 3.
- b) See Topic: INSPECTION AND QUALITY CONTROL, Long Answer Type Question No. 5.
- c) See Topic: INSPECTION AND QUALITY CONTROL, Long Answer Type Question No. 4(b).
- 10. a) Explain in brief the principles of 'Materials Handling System'.
- b) What is meant by Work Study? State its advantages. Calculate standard time of a job which the following data are available: Average time of machine elements = 4 minutes, Average time for manual elements = 2.5 minutes, Performance rating = 80%, Allowances =15%.
- a) See Topic: PLANT MAINTENANCE AND MATERIALS HANDLING, Short Answer Type Ouestion No. 9.
- b) See Topic: WORK STUDY, Long Answer Type Question No. 12.
- 11. Write short notes any three of the following:
 - a) OC-curve
 - b) Integrated Materials Management
 - c) Kaizen Philosophy
 - d) Total Quality Management
 - e) Motion Study
- a) See Topic: INSPECTION AND QUALITY CONTROL, Long Answer Type Question No. 7(f).
- b) See Topic: PLANT MAINTENANCE AND MATERIALS HANDLING, Long Answer Type Ouestion No. 9.
- c) See Topic: INSPECTION AND QUALITY CONTROL, Long Answer Type Question No. 7(a).
- d) See Topic: INSPECTION AND QUALITY CONTROL, Long Answer Type Question No. 8.
- e) See Topic: WORK STUDY, Long Answer Type Question No. 15(b).