

II Semester M.B.A. (Day) Degree Examination, June/July 2012 violnavni Isinamebnut owi er (2007-08 Scheme) ii baganam violnavni si wolf sa decisions ? What is the role of end at an architecture

Paper - 2.3 : Production and Operation Management

Time: 3 Hours

anisho vioqua of betalet notice in Max. Marks: 75

Instruction: 1) Use graph sheets wherever necessary.

2) Calculators are allowed. and fost another point was remode.

7. Discuss the concepts of method Alt MOITDAS x measurement as components

Answer any six questions. Each question carries two marks.

- 1. a) What is work study? 200210 S lonnoo bas painasig ganubsturem at failw 8
 - b) What is product design? To its upong ni iqeonoo Till entrio neg as nednexi bns
 - What is POKAYOKE and Zero Defect Quality ? Discuss it? 9R3 at the W
 - d) What is line of balance? asout and ent nisignal insmulsas EMOYANO9
 - e) What are SPMs?
 - f) What are work instructions?
 - g) What is CIM?
- h) What is EOQ?

nothered yield a nativity gave a perform A Final Country on a seembly operation.

Answer any three questions. Each question carries eight marks. (3×8=24)

The time study of this operation

2. The fixed and variable costs for four potential plant locations are given below.

Location	Fixed Cost Per Year (In Rs)	Variable Cost Per Unit (In Rs.)
Α	2,50,000	11 10.1
В	1,00,000	30
С	1,50,000	20
D	2,00,000	35

- a) Plot the total cost lines for these on a single graph.
- b) Identify the range of output for which each alternative is superior. (i.e., has the lowest total cost)
- c) If expected output at the selected location is to be 8,000 units per year, which location would provide the lowest total cost?
- 3. What are the characteristics of facility layout decisions? Explain the different basic layout forms.
- 4. What is TPM? Is it a lean initiative? Discuss the different types of maintenance in a factory system and their benefits.



- 5. How is inventory managed in a factory? What are the two fundamental inventory decisions? What is the role of inventory in services?
- 6. What is a supply chain? What are the different types of supply chains? How is mass customization related to supply chains?

SECTION-C

Answer any two questions. Each question carries twelve marks.

(2×12=24)

- 7. Discuss the concepts of method study and work measurement as components of work study.
- 8. What is manufacturing planning and control? Discuss push and pull systems and Kanban as part of the JIT concept in production.
- 9. What is POKAYOKE and Zero Defect Quality? Discuss the seven steps to POKAYOKE attainment. Explain the nine types of wastes in POKAYOKE achievement.

SECTION - D ? enolipurtani show ena tartivi ()

Compulsory case study.

(1×15=15)

10. A time study analyst gave a performance rating of 1.01 for an assembly operation. The time study of this operation yielded the following observed times for one element of the job. Using an allowance of 18 per cent of job time, determine the appropriate standard time for this operation.

Observation (i)	Time in minutes
1	1.01
2	1.04 08
3	1.00
4	1.01 doctor oln
perior. (i.e.) ha	
6	1.05
7 7	1.02
ain the differer8	
9	1.07
Totalnanainiam	9.25 Vi inereffib erf

B 1,00,000

C 1,50,000

D 2,00,000

a) Plot the total cost lines for these on a single of output for which enthe lowest total cost)

c) If expected output at the selected location would provide the lowest total obasic layout forms.

What is TPM? Is it a lean initiative? Discussion