



Name : .....

Roll No. : .....

Invigilator's Signature : .....

**CS/BBA (H)/BIRM/BSCM/SEM-4/BBA-401/2010**

**2010**

**PRODUCTION MANAGEMENT**

Time Allotted : 3 Hours

Full Marks : 70

*The figures in the margin indicate full marks.*

*Candidates are required to give their answers in their own words as far as practicable.*

**GROUP – A**

**( Multiple Choice Type Questions )**

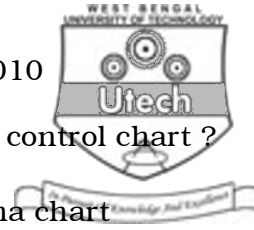
1. Choose the correct alternatives for any *ten* of the following : 10 × 1 = 10

i) Line balancing is a technique for

- |                   |                        |
|-------------------|------------------------|
| a) job assignment | b) work place layout   |
| c) method study   | d) materials handling. |

ii) ISO 9001 is a system for

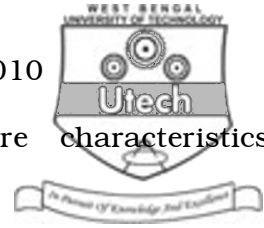
- a) Quality Management
- b) Operational Planning
- c) Productivity Improvement
- d) Preventive Maintenance.



- iii) Which of the following is not a type of control chart ?
- a) Standard deviation chart or Sigma chart
  - b) Mean chart or  $\bar{X}$ -chart
  - c) Range chart or  $R$ -chart
  - d) Type and enter or  $W$ -chart.
- iv) When do you resort to “Breakdown Maintenance” ?
- a) When you assemble a new machine for installation
  - b) When a machine in operation comes to breakdown
  - c) When you apply a brake to stop a running machine
  - d) When the machine becomes obsolete and has to be replaced by a new machine.
- v) 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 medium
  - d) none of these.
- vi) Which of the following is material handling equipment that could be used in a plant ?
- a) Fork-lift truck
  - b) P-4 computer
  - c) Mercedes-Benz car
  - d) Air conditioners.



- vii) Preventive maintenance refers to
- a) a system of scheduled and planned maintenance to minimize problem of breakdown
  - b) the repair work undertaken after the failure of machine or equipment
  - c) the maintenance undertaken on the prediction of any fault in the machinery
  - d) none of these.
- viii) Work study is formerly known as
- a) method study
  - b) work measurement
  - c) time and motion study
  - d) none of these.
- ix) Production planning and control is difficult for
- a) mass production                      b) jobbing works
  - c) batch production                      d) none of these.
- x) For continuous process of material handling ..... are used.
- a) cranes                                      b) fork-lifters
  - c) conveyors                                d) lifts.



- xi) High variety and low volume are characteristics associated with
- a) batch production
  - b) mass production
  - c) job shop production
  - d) continuous production.
- xii) Materials requirement planning is associated with which of the following stages of production planning and control ?
- a) Planning phase
  - b) Action phase
  - c) Control phase
  - d) All of these.
- xiii) TQM stands for
- a) Total Quality Monitoring
  - b) Total Quality Management
  - c) Total Quality Maintenance
  - d) none of these.

**GROUP – B**

**( Short Answer Type Questions )**

Answer any *three* of the following.  $3 \times 5 = 15$

2. Define the concept of Aggregate Planning.
3. How do you explain performance rating ?
4. State the difference between product and process layout.



5. Write a note on Kaizen philosophy.
6. Discuss the significance of Statistical Quality Control.

**GROUP – C**

**( Long Answer Type Questions )**

Answer any *three* of the following.  $3 \times 15 = 45$

7. Define ideal plant location. State the steps in choosing a plant location.

A company is to decide on the location of a new plant. It has narrowed down the choice to three locations A, B and C, data in respect to which are furnished below :

Data	Locations		
	A	B	C
Wages & Salaries	20,000	20,000	20,000
Power & water supply	20,000	30,000	25,000
Raw material	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.

7 + 8

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8. a) Define production system.

b) What are the different types of production system ?

c) Explain any *two* production systems with examples.

3 + 4 + 8

9. a) Mention the objectives of materials handling system.

What factors should be considered for selection of material handling equipment ?

b) Discuss in detail the different materials handling equipment.

7 + 8

10. a) Define Production Planning and Control ( PPC ). What are the objectives of PPC ?

b) How is the efficiency of PPC function measured ? 8 + 7



11. Write notes on any *two* of the following :

- a) Inspection
  - b) Motion study
  - c) Work measurement
  - d) Maintenance.
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