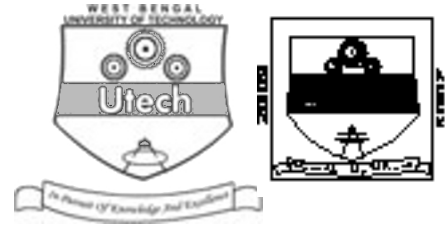


**PRODUCTION MANAGEMENT ( SEMESTERS - 2 & 4 )**

**CS/MBA (O)/SEM-2 (FT) & 4 (PT)/MB-204/09**



1. ....  
Signature of Invigilator

2. ....  
Signature of the Officer-in-Charge

**Reg. No.**

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**Roll No. of the Candidate**

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**CS/MBA (O)/SEM-2 (FT) & 4 (PT)/MB-204/09  
ENGINEERING & MANAGEMENT EXAMINATIONS, MAY - 2009  
PRODUCTION MANAGEMENT ( SEMESTERS - 2 & 4 )**

Time : 3 Hours ]

[ Full Marks : 70

**INSTRUCTIONS TO THE CANDIDATES :**

- This Booklet is a Question-cum-Answer Booklet. The Booklet consists of **32 pages**. The questions of this concerned subject commence from Page No. 3.
- In **Group – A**, Questions are of Multiple Choice type. You have to write the correct choice in the box provided **against each question**.
  - For **Groups – B & C** you have to answer the questions in the space provided marked 'Answer Sheet'. Questions of **Group – B** are Short answer type. Questions of **Group – C** are Long answer type. Write on both sides of the paper.
- Fill in your Roll No. in the box** provided as in your Admit Card before answering the questions.
- Read the instructions given inside carefully before answering.
- You should not forget to write the corresponding question numbers while answering.
- Do not write your name or put any special mark in the booklet that may disclose your identity, which will render you liable to disqualification. Any candidate found copying will be subject to Disciplinary Action under the relevant rules.
- Use of Mobile Phone and Programmable Calculator is totally prohibited in the examination hall.**
- You should return the booklet to the invigilator at the end of the examination and should not take any page of this booklet with you outside the examination hall, **which will lead to disqualification**.
- Rough work, if necessary is to be done in this booklet only and cross it through.

**No additional sheets are to be used and no loose paper will be provided**

**FOR OFFICE USE / EVALUATION ONLY**

Marks Obtained

**Group – A**

**Group – B**

**Group – C**

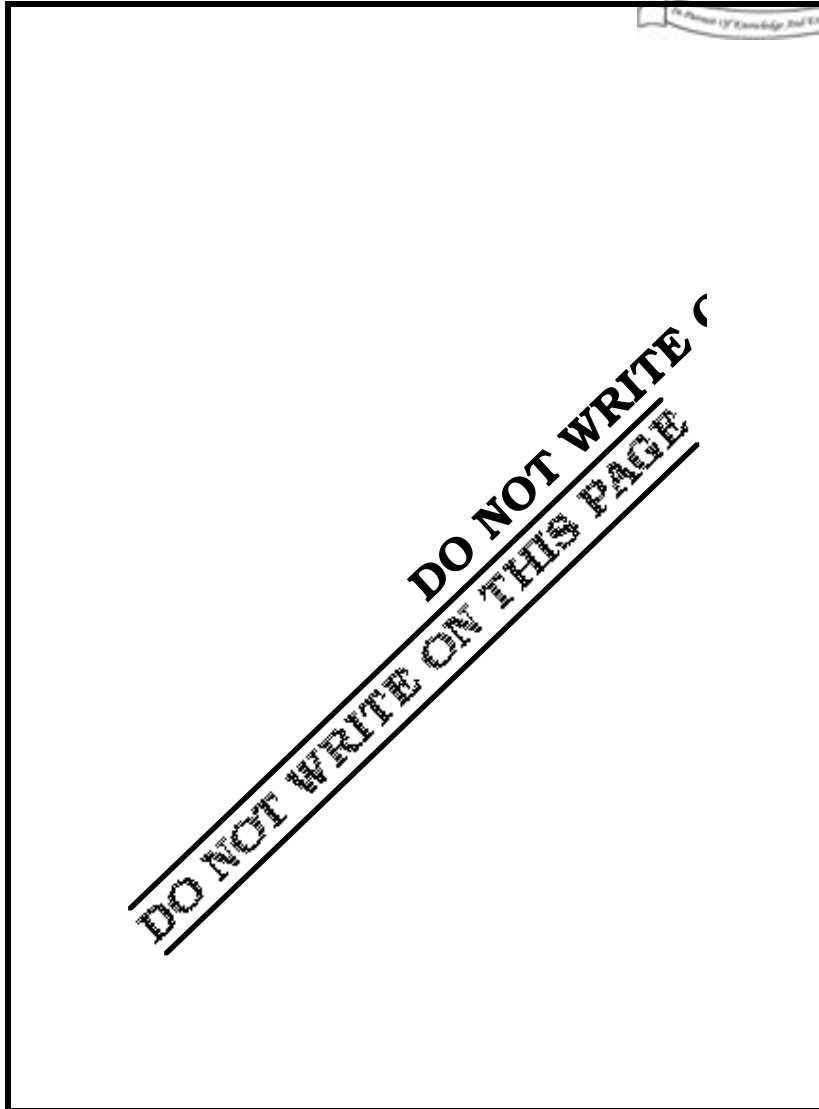
Question Number																				Total Marks	Examiner's Signature
Marks Obtained																					

.....  
**Head-Examiner/Co-Ordinator/Scrutineer**

**51005 (30/05) (O)**



In Pursuit Of Knowledge And Excellence





**ENGINEERING & MANAGEMENT EXAMINATIONS, MAY – 2009**

**PRODUCTION MANAGEMENT**

**SEMESTERS - 2 & 4**



Time : 3 Hours ]

[ Full Marks : 70

**GROUP – A**

**( Multiple Choice Type Questions )**

1. Choose the correct alternatives for any *ten* of the following : 10 × 1 = 10
- i) Production Management is valid for
- a) manufacturing                      b) hospital
- c) educational institution              d) banks
- e) hotel                                      f) all of these
- g) none of these.
- ii) Measure of efficiency of a productive system is also known as
- a) utility                                      b) efficacy
- c) effectiveness                              d) productivity.
- iii) Batch production system is adopted when
- a) 'volume' is very large and 'variety' is less
- b) 'volume' is small and 'variety' is large
- c) both the 'volume' and 'variety' are medium.
- iv) Man-Machine Chart is used in
- a) job scheduling                              b) routing
- c) plant layout designing                      d) none of these.



- v) An effective quality control operation starts from
- a) the inspection of input materials at the beginning of the production process and continues as per the inspection schedule
  - b) inspection at the end of the production process
  - c) as and when the inspection is called for defective materials arising out of production.
- vi) Production Planning and Control activities are carried out to
- a) ensure timely delivery
  - b) utilise resources effectively and economically
  - c) both of these.
- vii) Which is not *true* in case of a good 'product layout' ?
- a) The entire line gets immobilised if any one station is under break-down
  - b) Machine utilisation is usually very high
  - c) Is a very flexible system.
- viii) For an integrated Steel Plant, the plant location decision will be chiefly influenced by the consideration of
- a) proximity to the market
  - b) proximity to the raw material supply source
  - c) availability of electricity.
- ix) 'Work Measurement' is done for
- a) determining the standard time
  - b) streamlining the method
  - c) ensuring high productivity.



5

- x) Statistical Quality Control is done to
- a) prevent any defective product from going out of the factory
  - b) observe the trend of product quality
  - c) initiate corrective action if quality trend shows an adverse pattern.



- xi) 'Critical Ratio Scheduling' attempts to balance between approaches like
- a) 'Earliest Due Date' and 'Shortest Processing Time'
  - b) 'Earliest Due Date' and 'First Come First Serve'
  - c) 'Shortest Processing Time' and 'First Come First Serve'.

- xii) The premise of Just in Time ( JIT ) approach is
- a) no interruption of flow in the supply chain
  - b) to have no buffer stock
  - c) not to procure material earlier than one hour.

**GROUP – B**

**( Short Answer Type Questions )**

Answer any *three* of the following questions.

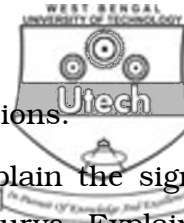
3 × 5 = 15

2. Indicate the steps in 'Production Planning and Control'.
3. Differentiate between predictive and preventive maintenance practices.
4. Distinguish between product and process layout.
5. Describe the exponential smoothing method for demand forecasting.



## GROUP – C

## ( Long Answer Type Questions )

Answer any *three* of the following questions.

3 × 15 = 45

6. What do you understand by Acceptance Sampling ? Explain the significance of AQL and LTPD in acceptance sampling with the help of OC curve. Explain producer's and consumer's risk. 5 + 5 + 5
7. a) What are the criteria for a good plant layout ? What are the various costs associated with the decision of a good plant layout ? 8
- b) Differentiate between the *Q*-system and the *P*-system of Inventory Management. The following information is given below for an inventory management system allowing shortages :
- |                  |   |                             |
|------------------|---|-----------------------------|
| Demand per annum | : | 600 units                   |
| Unit cost        | : | Rs. 40/-                    |
| Shortage cost    | : | Rs. 20/- per unit per annum |
| Carrying cost    | : | Rs. 50/- per unit per annum |
| Procurement cost | : | Rs. 100/- per order.        |
- Calculate the *EOQ* and maximum shortage level. 7
8. a) Discuss the objectives of a proper material handling system. What are the criteria for selection of good material handling equipment ? 8
- b) Explain the benefits and costs associated with Preventive Maintenance. What do you understand by the term 'Total Productive Maintenance' ? 7
9. a) "Work study involves the role of the management, supervisors, workers and also the work study men." Elaborate. What are the pre-requisites of performing a good study ? 8
- b) What are the basic objectives of work measurement ? Why should we consider allowances while calculating the standard time of completing a job ? 7
10. a) Explain when you will use the qualitative method of forecasting. 5
- b) When will you use Statistical Methods of Quality Control ? What are its advantages ? 5 + 5

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 END