No. of Printed Pages : 2

MS-5

MANAGEMENT PROGRAMME Term-End Examination December, 2013 MS-5 : MANAGEMENT OF MACHINES AND MATERIALS

Time : 3 hours

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Maximum Marks : 100 (Weightage 70%)

Note : Answer any four questions. All questions carry equal marks.

(a) Explain the concept of systems life cycle for production and operations management.

- (b) What are the objectives and advantages of good plant layout? Also explain the basic types of flow pattern preffered in any plant.
- (a) Define capacity. How do you measure the capacity in manufacturing and service systems. Explain briefly the process for capacity planning.
 - (b) Define work study. Explain the various techniques of work measurement.
- 3. (a) Distinguish between mass and batch production. Discuss the problems and prospects of batch production.

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- (b) The data relavant to a construction work is given below :
 - (i) Draw the project network.

(ii) Identify the critical path.

Activity :	A	В	Ċ	D	E	F	G	Η	Ι	J	K	L
Preceding : Activity	un 09	A	В	c	В	E	В	G	В	Ι	J, H, F	K
Duration in Weeks :	1	6	3	1	6	2	5	1	2	10	4	1

- (iii) Calculate the minimum construction time.
- (iv) Calculate the total float in the network.
- (a) What is the fundamental difference between the acceptance sampling and process control ? Discuss the Operating characteristics curve.
 - (b) What are the objectives of purchasing function ? Discuss the basic characteristics of computerized purchasing system.
 - (a) Explain the role of codification and standardization in inventory control and variety reduction.
 - (b) A Contractor has to supply 20000units per day. He can produce 30000units per day. The cost of holding a unit in stock is Rs. 3/- per year. The set up cost is Rs. 50/-. How frequently and what size of production must be planned ?
- 6. Write short notes on **any three** of the following :
 - (a) Waste Management
 - (b) Maintenance Management
 - (c) Value Engineering and Analysis
 - (d) Computerized Layout Planning
 - (e) Aggregate Production Planning

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