

**NEW**

**2016**

**M B A**

**2nd Semester Examination**

**PRODUCTION AND OPERATIONS MANAGEMENT**

**PAPER—MBA-204**

*Full Marks : 100*

*Time : 3 Hours*

*The figures in the right-hand margin indicate full marks.*

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

*Illustrate the answers wherever necessary.*

**(First Half)**

**(Marks : 50)**

1. Answer any *eight* questions : 8×5
- (a) What do you mean by 'Batch Production'? Explain with example.
- (b) State the essential features for Plant Location.

*(Turn Over)*

- (c) What are the 5-S practices of TQM.
- (d) What is Deming's PDCA Cycle in TQM.
- (e) What are the criteria for a good plant layout.
- (f) What do you mean by production scheduling.
- (g) Briefly enumerate the single line deterministic model of assembly line balancing.
- (h) What is meant by Materials Requirement Planning (MRP)? Briefly elucidate the inputs to MRP system.
- (i) What is the importance of 'Work measurement'.
- (j) Explain, in short, the concepts of preventive and breakdown maintenance.
- (k) Define work study. List out the aims of work study.

2. Answer any *four* questions : 4×10

- (a) What are the elements of production Planning and Control? Briefly discuss the elements. 2+8
- (b) What do you understand by cost of quality? Citing appropriate examples discuss the different types of costs of quality and their organisational implications.

- (c) What are the objectives of Material Requirement Planning (MRP). What are the necessities of selection of good material handling equipment. 5+5
- (d) What do you understand by cost of quality? Citing appropriate examples discuss the different types of costs of quality and their organisational implications. 4+6
- (e) What do you mean by plant layout? What are the different types of plant layout? Briefly discuss each types of plant layout. 1+1+8
- (f) (i) What is work measurement? Mention the various techniques used for work measurement.
- (ii) An industrial engineer, deputed to conduct a time study for a job, has, after observation, divided the job into 5 elements. He had noted the timings for four cycles of the job as below :

Time minutes					
Element	Cycle 1	Cycle 2	Cycle 3	Cycle 4	Performance rating
1	1.246	1.328	1.298	1.306	90
2	0.972	0.895	0.798	0.919	100
3	0.914	1.875	1.964	1.972	100
4	2.121	2.198	2.146	2.421	110
5	1.253	1.175	1.421	2.218	100

Compute the basic time for the job and the standard time if a relaxation allowance of 12%, a contingency allowance of 3% and an incentive of 20% are applicable for the job. 4+6

- (f) Write short notes on any two of the following :
- (i) Quality Circles ;
  - (ii) Master Production Schedule ;
  - (iii) Benefits of Six Sigma.

**[ Internal Assessment : 20 Marks ]**

---