

January 2017

Bachelor of Business Administration (BBA) Examination

III Semester

Operations Management

Time 3 Hours]

[Max. Marks 80

Note : Attempt any three questions from Section A. Each question carries 16 marks. Attempt any two questions from Section B, each carrying 16 marks.

Section A

- Q. 1. (a) "Operation Management have wider scope then Production Management". Discuss.
(b) What are characteristics of mass production system ?
- Q. 2. (a) What are important criteria for process selection ?
(b) Describe various inputs of MRP.
- Q. 3. (a) What are principles of good plant layout ?
(b) Describe the concept of six sigma.
- Q. 4. (a) What factors crucial for selection of location for :
(i) Hydro-power Plant
(ii) Post-Graduate B-School.
(b) Why is material management becoming critical in present world scenario ?
- Q. 5. Write short note on :
(a) Operations Organisation (b) Cellular Layout
(c) Stores Management (d) Acceptance Sampling.

Section B

- Q. 6. Which location is the best suited for production capacity of 50,000 units to 1,00,000 units per - month :

	A	B	C	D
Fixed Cost/Year	20 lacs	18 lacs	16 lacs	14 lacs
Variable Cost / unit	Rs. 120	Rs. 155	Rs. 170	Rs. 200

- Q. 7. 10 sample of 50 each are taken for shafts and no. of defectives found one as follows. Determine UCL, LCL and CL for the data collected :
- | | | | | | | | | | | |
|------------|-----|---|---|---|---|---|---|---|---|----|
| Sample | : 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Defectives | : 5 | 4 | 6 | 3 | 7 | 3 | 6 | 7 | 2 | 8 |

- Q. 8. Design the optimal layout for following load matrix :

From\To	A	B	C	D	E	F
A	-	15	12	6	18	24
B	10	-	-	7	2	-
C	-	-	-	15	18	25
D	9	12	-	-	20	10
E	14	14	8	6	-	12
F	5	10	20	9	-	-

- Q. 9. Draw \bar{X} and \bar{R} chart with following information :

No. of Samples	: 8
Sub Sample Size	: 5
ΣX	: 1040.02mm
ΣR	: 71.34mm.

□□□

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