### 2017

# Management Studies PAPER: 3.8(B)

## **QUALITY MANAGEMENT**

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Time: 3 hours

{ The figures in the margin indicate full marks for the question.}

# SECTION-A

A. All questions are compulsory:	2x5=10
1. What are the various definitions of quality?	2
2. Define six sigma. Why the companies are using six sigma?	1+1
3. What is an OC curve? How does an OC curve differs from other	ers? 1+1
4. Why is documentation most common reason for noncompliance	e? 2
5. Explain customer driven quality	2
<u>SECTION-B</u>	
B. Answer any five from the following:	4x5=20
1. Discuss the different dimensions of quality	4
<ol> <li>Discuss the three functions: quality planning, quality assurar quality control and improvement</li> <li>Discuss the typical application of seven basic tools of quality co quality improvement.</li> </ol>	4 ontrol in
4. What is QFD?Discuss the benefits of QFD	2+2
5. Distinguish between Kaizen and innovation with an example.	4
5. Discuss types of control charts.	4

7. The following table has the data of a lathe machine tool studied for availability in total five Spans

1	Span of operation(h)	0-100	100-125	125-175	175-225	225-250	7
	Stoppage time(h)	1	2	3	4	5	

Calculate the availability of lathe machine tool for 250 allocated hours. 4

#### **SECTION-C**

## C. Answer any five from the following

8x5 = 40

- 1. Describe the quality management philosophies of W. Edwards Deming, and Joseph and M. Juran,
- 2. Write a brief note on quality control circles.

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3. The following are number of defectives found on 24 consecutive production days in daily samples of 200 items. Draw (a).an np-chart and (b).p-chart. Which points falls outside the control limits.

Production days	1	. 2	3	4	5	6	7	8	9	10	11	12
No.of defectives	10	5	10	12	11	9	19	4	12	27	25	9
Production days	13	14	15	16	17	18	19	20	21	22	23	24
No.of defectives	12	15	8	14	10	4	11	11	26	3	10	11

- 4. Briefly explain the purpose of an ISO 9000 quality system.
- 5. Explain the TQMEX model.

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6. Explain with examples the core concepts of TQM.

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7. Discuss the four sides of TQM pyramid.

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