Roll No:

BTECH
(SEM VIII) THEORY EXAMINATION 2024-25
QUALITY MANAGEMENT

TIME: 3 HRS **M.MARKS: 100**

Note: Attempt all Sections. In case of any missing data; choose suitably.

SECTION A

1. Attempt *all* questions in brief. **2 x 10 = 20**

Q No.	Question	CO	Level
a.	State the dimensions of Quality?	1	K2
b.	What do you mean by Procurement?	1	K1
c.	What are the basic causes of the apparatus error?	2	K1
d.	State the role of team leader in an organization?	2	K2
e.	What are the limitations of a basic C-Chart?	3	K1
f.	What is the use of Ishikawa diagram and Pareto chart?	3	K1
g.	What is zero defect?	4	K1
h.	Define MTTR.	4	K2
i.	Write any four steps in implementation of quality management system.	5	K2
j.	What are the limitations of JIT?	5	K1

SECTION B

2. Attempt any *three* of the following: **10 x 3 = 30**

Q No.	Question	CO	Level
a.	What do you mean by evolution of quality control? Discuss with suitable example.	1	K2
b.	Differentiate between the term warranty and guarantee. How the claims are being analyzed ?.	1	K2
c.	What are control charts? Discuss with examples.	3	K2
d.	Elaborate house of quality using a schematic diagram.	2	K2
e.	Define the reliability. What are its objectives and how we can evaluate reliability of a product? Explain in detail.	4	K2

SECTION C

3. Attempt any *one* part of the following: **10 x 1 = 10**

Q No.	Question	CO	Level
a.	Human factor is the most important element in Quality of Product. Justify it.	2	K2
b.	List the various procurement procedure in detail with a neat flowchart.	1	K1

4. Attempt any *one* part of the following: **10 x 1 = 10**

Q No.	Question	CO	Level
a.	Write a note on the organization structure and design of quality management.	2	K2
b.	Enumerate the various steps to be taken in the planning of cost reduction programs.	2	K1

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5. Attempt any *one* part of the following: **10 x 1 = 10**

Q No.	Question	CO	Level
a.	What do you mean by process capability study? Discuss with some examples.	3	K2
b.	Explain the construction of X bar and R control charts. Where are they used?	3	K2

6. Attempt any *one* part of the following: **10 x 1 = 10**

Q No.	Question	CO	Level
a.	Write short note on the following: (i) MTTF, (ii). Maintainability, (iii) Quality circle.	4	K2
b.	The probability distribution function for time to failure in years for the drive train on the Regional Transit Authority bus is given by $f(t)= 0.2-0.02t$ $0 \le t \le 10$ year Find: i. Reliability R(t) ii. The Hazard Rate Function iii. MTTF iv. MTBF v. Compute standard deviation	4	K2

7. Attempt any *one* part of the following: **10 x 1 = 10**

Q No.	Question	CO	Level
a.	What do you understand by documentation of Quality Systems in ISO 9000?	5	K2
b.	Explain the Taguchi Method in quality engineering?	5	K2