



Roll No:

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

**B TECH**  
**(SEM-V) THEORY EXAMINATION 2020-21**  
**QUALITY ASSURANCE & CONTROL**

**Time: 3 Hours****Total Marks: 100****Note: 1.** Attempt all Sections. If require any missing data; then choose suitably.**SECTION A****1. Attempt all questions in brief.****2 x 10 = 20**

Qno.	Question	Marks	CO
a.	What is ISO? What is ISO Quality System?	2	
b.	What are the quality functions of quality control?	2	
c.	What are the strategies for quality management?	2	
d.	What is the difference between ISO and TQM?	2	
e.	State the guiding principles of Total Quality Control.	2	
f.	Distinguish between Quality and Total Quality.	2	
g.	State the contents of quality audit plan.	2	
h.	Distinguish between random causes and assignable causes in SQC.	2	
i.	Give the objectives of the internal audit?	2	
j.	What is the use of the control chart?	2	

**SECTION B****2. Attempt any three of the following:**

Qno.	Question	Marks	CO
a.	Explain the importance of controlling tools, gauges, and test equipment's in inspection planning.	10	
b.	State the various stages which need to be controlled for ensuring proper quality of product and for ensuring improvement in quality.	10	
c.	Describe the characteristics of Just in Time production.	10	
d.	Describe the various quality costs. Briefly describe each of them.	10	
e.	Define quality assurance. What are the advantages of quality assurance?	10	

**SECTION C****3. Attempt any one part of the following:**

Qno.	Question	Marks	CO
a.	Explain the concept of Quality Circles. List the prerequisites of forming a Quality Circle. List advantages and drawbacks of Quality Circles.	10	
b.	What do you understand by standards and what are the Benefits of ISO: 9000 Series of standards?	10	

**4. Attempt any one part of the following:**

Qno.	Question	Marks	CO
a.	What are the specifications of packaging materials? Discuss in detail.	10	
b.	What is Deming Cycle? Write about PDCA & SDAC cycles.	10	



Roll No:

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

**5. Attempt any one part of the following:**

Qno.	Question	Marks	CO
a.	What are 'Quality circles'? How do they help in improving quality and increasing production?	10	
b.	Discuss Taguchi approach for design of experiments.	10	

**6. Attempt any one part of the following:**

Qno.	Question	Marks	CO
a.	How will you study the process capability of a production process? What are the important indices for measuring the process capability?	10	
b.	What is Six – Sigma? Write steps for implementing six – sigma.	10	

**7. Attempt any one part of the following:**

Qno.	Question	Marks	CO
a.	Briefly discuss about the Quality audit.	10	
b.	Write a short note on - i. Waste disposal ii. GMP with respect to sanitation iii. Material management iv. Scope of chemical industries in India	10	