

# Model Question Paper-1/2 with effect from 2021(CBCS Scheme)

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## 7<sup>th</sup> Semester B.Tech. Textile / Silk Technology Examination

### Subject Title: Industrial Engineering

TIME: 03 Hours

Max. Marks: 100

Note: 01. Answer any FIVE full questions, choosing at least ONE question from each MODULE.

Module -1			*Bloom's Taxonomy Level	COs	Marks
Q.01	a	Describe the term industrial engineering.	L1	CO1	5
	b	State the impact of industrial engineering on production in four basic terms.	L1	CO1	5
	c	Discuss why Industrial Engineering department is required in the industry.	L2	CO1	10
<b>OR</b>					
Q.02	a	Why is F. W. Taylor considered the father of scientific management?	L1	CO1	5
	b	Why did F. W. Taylor initiate time study?	L1	CO1	5
	c	Describe the scientific management principles briefly.	L2	CO1	10
<b>Module-2</b>					
Q. 03	a	Write a short note on the significance of plant location	L1	CO2	5
	b	List the different types of plant location.	L1	CO2	5
	c	Examine the impact of choosing a wrong location on an organization?	L3	CO2	10
<b>OR</b>					
Q.04	a	Describe the elements of a plant layout.	L1	CO2	5
	b	List the different types of plant layout.	L1	CO2	5
	c	Why is plant layout a dynamic system?	L3	CO2	10
<b>Module-3</b>					
Q. 05	a	Discuss work study and its components briefly	L1	CO3	5
	b	List the objectives of work study	L1	CO3	5
	c	Results of Method study impact Time study and vice versa. Justify this statement.	L4	CO3	10
<b>OR</b>					
Q. 06	a	Outline the scope of method study	L1	CO3	5
	b	List the various steps in method study	L1	CO3	5
	c	Explain how the SIMO chart is an improvement over the two-handed process chart with diagrams	L4	CO3	10
<b>Module-4</b>					
Q. 07	a	List and briefly explain the various steps in time study	L2	CO4	5
	b	Why is breakdown of elements required in time study?	L2	CO4	5
	c	Analyze the impact of starting a time study without necessary approvals?	L4	CO4	10

<b>OR</b>					
<b>Q. 08</b>	a	Write a brief note on PMTS.	L1	CO4	5
	b	Give an example for a basic PMT system	L2	CO4	5
	c	Explain MOST in detail and show with the help of an example how MOST differs from a MTM system.	L4	CO4	10
<b>Module-5</b>					
<b>Q. 09</b>	a	List the characteristics of industrial planning.	L2	CO5	5
	b	Discuss the key determinants of industrial planning	L2	CO5	5
	c	Analyze the situation in an organization in the absence of industrial planning.	L3	CO5	10
<b>OR</b>					
<b>Q. 10</b>	a	Outline the activities involved in creating an effective plan	L2	CO5	5
	b	Elaborate on the various types of forecasting	L2	CO5	5
	c	Outline the various considerations in choosing a particular forecasting technique.	L3	CO5	10