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**GUJARAT TECHNOLOGICAL UNIVERSITY**

**BE - SEMESTER– VII (New) EXAMINATION – WINTER 2019**

**Subject Code: 2172908/2172910**

**Date: 30/11/2019**

**Subject Name: CAD IN Textiles**

**Time: 10:30 AM TO 01:00 PM**

**Total Marks: 70**

**Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

		MARKS
<b>Q.1</b>	(a) List the main features of any CAD for woven designs.	<b>03</b>
	(b) Discuss briefly, the jacquard design parameters.	<b>04</b>
	(c) State display devices. With the help of neat diagram, explain the principle of working of LCD monitors. Also, compare LCD with other display devices.	<b>07</b>
<b>Q.2</b>	(a) Enlist the main features of CAD for printed designs.	<b>03</b>
	(b) Draw a neat screen layout of any CAD software for printed designs and list the important components of the same.	<b>04</b>
	(c) Discuss briefly the steps involved in development of new jacquard designs using any CAD software.	<b>07</b>
<b>OR</b>		
<b>Q.3</b>	(c) Discuss the main modules of any CAD system for designing of Garments.	<b>07</b>
	(a) Compare online with offline UPS.	<b>03</b>
	(b) Compare hand held with sheet fed scanner.	<b>04</b>
(c) State and explain some of the important parameters used for comparing different types of scanners.	<b>07</b>	
<b>OR</b>		
<b>Q.3</b>	(a) State some of the features of LED monitors.	<b>03</b>
	(b) Short note on – Input devices	<b>04</b>
	(c) Classify printers. With the help of neat diagram, explain the principle of working of Laser Printers in detail.	<b>07</b>
<b>Q.4</b>	(a) Explain with an example, how colour pattern is introduced in most of the CAD softwares for suiting fabrics.	<b>03</b>
	(b) Explain, with illustrations any two utility tools in a CAD software for jacquard designs.	<b>04</b>
	(c) Discuss the significance & process of weave insertion in detail in any CAD software.	<b>07</b>
<b>OR</b>		
<b>Q.4</b>	(a) List out the main applications of CAM in different areas of textiles.	<b>03</b>
	(b) Explain, with illustrations any two repeat matching/arranging tools in a CAD software for jacquard designs.	<b>04</b>
	(c) Compare the features of any two CAD software for jacquard designs.	<b>07</b>
<b>Q.5</b>	(a) Give the significance of colour reduction.	<b>03</b>
	(b) Write a brief note on “Latest developments in CAD systems used in different area of textiles”.	<b>04</b>
	(c) Write a brief note on “CAD for Embroidery”.	<b>07</b>
<b>OR</b>		
<b>Q.5</b>	(a) Discuss the role of CAD in digital printing.	<b>03</b>
	(b) Briefly discuss the significance & process of texture mapping.	<b>04</b>
	(c) Write a brief note on “Application of 3D Body Scanning for Garmenting”.	<b>07</b>

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