

GUJARAT TECHNOLOGICAL UNIVERSITY**BE – SEMESTER- V EXAMINATION-SUMMER 2023****Subject Code: 3152903****Date: 03/07/2023****Subject Name: Fabric Structure****Time: 02:30 PM TO 05:00 PM****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Simple and non-programmable scientific calculators are allowed.

MARKS

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|------------|---|-----------|
| Q.1 | (a) Write the characteristics of twill weave. | 03 |
| | (b) Explain the ornamentation methods of plain weave. | 04 |
| | (c) Draw design, draft and peg plan of herringbone twill. | 07 |
| Q.2 | (a) State the characteristics of satin weave. | 03 |
| | (b) With help of an example, explain balanced and unbalanced twill. | 04 |
| | (c) Draw design, draft and peg plan of pointed twill on 8 shaft. | 07 |
| | OR | |
| | (c) State the characteristics of plain weave. Construct plain weave design, draft and peg plan on 10x10. | 07 |
| Q.3 | (a) State the name of various methods used to produce crepe weave. | 03 |
| | (b) Draw design, draft and peg plan of regular rib weave. | 04 |
| | (c) Give only design for following | 07 |
| | 1. Transposed twill 2. Broken Twill | |
| | OR | |
| Q.3 | (a) State the difference between diamond and diaper weave. | 03 |
| | (b) Draw only design of diamond weave. | 04 |
| | (c) Draw design of crepe weave using any one method. | 07 |
| Q.4 | (a) Write the rules for selecting move no. of sateen / satin weave. | 03 |
| | (b) Draw design, draft and peg plan for 5 end sateen weave. | 04 |
| | (c) Draw design, draft and peg plan of modified hopsack weave. | 07 |
| | OR | |
| Q.4 | (a) State the characteristics of toweling fabrics? | 03 |
| | (b) Construct design and denting of mock-leno. | 04 |
| | (c) Draw design, draft and peg plan for Brighton honey comb. | 07 |
| Q.5 | (a) Compare extra warp with extra weft figuring. | 03 |
| | (b) Draw only design of warp distorted effect. | 04 |
| | (c) Draw design, draft and peg plan of twill faced Bedford cord. | 07 |
| | OR | |
| Q.5 | (a) What are welt and pique structures? | 03 |
| | (b) Construct design of Warp cork screw weave. | 04 |
| | (c) Give design, draft and peg-plan for following. | 07 |
| | 1. Devon Huckaback | |
| | 2. Weft cork screw weave | |
