

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-V (NEW) EXAMINATION – WINTER 2018****Subject Code:2152903****Date:16/11/2018****Subject Name: Fabric Structure-I****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 |
|------------|--|-----------|
| Q.1 | (a) State & explain the rules for constructing regular sateen weave. | 03 |
| | (b) Describe the characteristics of various crepe fabrics. | 04 |
| | (c) Construct diamond weave on 12x12 using diamond base. | 07 |
| Q.2 | (a) Explain giving an example, horizontal extension of satinette. | 03 |
| | (b) Construct design and cross section of loose back welt on 8 picks. | 04 |
| | (c) Construct crepe weave on 8 x 8 using reversing principle. | 07 |
| | OR | |
| | (c) Explain how weft way distorted effect is obtained. | 07 |
| Q.3 | (a) Describe the Compound Fabrics. | 03 |
| | (b) Construct weft corkscrew weave on 7 x 7. | 04 |
| | (c) Construct a spot on 30 x 30. (Given fabric construction 36 epi x 36 ppi; twill order distribution of spot) | 07 |
| | OR | |
| Q.3 | (a) Construct irregular sateen on 8 x 8. | 03 |
| | (b) Write a brief note on "Seersucker Fabrics". | 04 |
| | (c) With the help of design & cross section, explain how wadded Bedford cords are constructed. | 07 |
| Q.4 | (a) Construct only design of Brighton Honeycomb. | 03 |
| | (b) Construct Twill by combining ends of (2/2 Twill & 2/1 Twill) | 04 |
| | (c) Explain with suitable designs, how herringbone twill can be produced in a economical way. | 07 |
| | OR | |
| Q.4 | (a) Construct only design of elongated twill on 15°. | 03 |
| | (b) Give design & denting of Mock-leno. | 04 |
| | (c) Explain with suitable diagram relative firmness of Twill weave. | 07 |
| Q.5 | (a) Give design of hopsack & rib combination. | 03 |
| | (b) Give only design of transposed twill. | 04 |
| | (c) Construct design & cross section of regular & irregular hopsack each. | 07 |
| | OR | |
| Q.5 | (a) Give design & draft of honeycomb. | 03 |
| | (b) Give design & denting of Devon's Huck. | 04 |
| | (c) Construct design & cross section of regular & irregular weft rib each. | 07 |
