| Seat No.: | Enrolment No. |
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GUJARAT TECHNOLOGICAL UNIVERSITY

B. E. - SEMESTER - VII • EXAMINATION - WINTER 2012

| Subje | ect c | ode: 172906 Date: 28/12/2012 | |
|------------|-------------|--|------------|
| Subje | ect N | Name: Knitting and Garment Technology (Department Elective – I) | |
| _ | | 30 am - 01.00 pm Total Marks: 70 | |
| Instr | | <u>-</u> | |
| | | Attempt any five questions. | |
| | 2.] | Make suitable assumptions wherever necessary. | |
| | 3.] | Figures to the right indicate full marks. | |
| Q.1 | (a) | Give the comparison of warp and weft knitting. | 07 |
| Q.1 | (b) | What is marker planning? Explain different duplicating methods | 07 |
| | (~) | (reproduction methods) of manual marker planning. | |
| | | | |
| Q.2 | (a) | Explain various types of seams briefly. | 07 |
| | (b) | Explain the following parts of circular weft knitting machine with diagrams: | 07 |
| | | i. Sinker ii. Needle cylinder. | |
| | (I-) | OR | 07 |
| | (b) | Explain with neat diagram the features and properties of 1x1 rib knit structure. | 07 |
| | | structure. | |
| Q.3 | (a) | Explain with neat sketches the knitting cycle on a Tricot machine. | 07 |
| | (b) | Explain the basic principal of laying –in technique along with its advantages. | 07 |
| | | OR | |
| Q.3 | (a) | Explain the following with proper diagrams: | 07 |
| | <i>a</i> > | i. Tuck stitch ii. Float stitch. | ^ - |
| | (b) | Enlist the techniques employed to produce designs in coloured stitches. | 07 |
| | | Explain any one in detail. | |
| Q.4 | (a) | Give only list of different properties to be tested for the satisfactory quality | 07 |
| C | () | of garment performance. | |
| | | Also explain features of lockstitch with diagram. | |
| | (b) | Discuss various factors affecting seam puckering. | 07 |
| 0.4 | | OR | . - |
| Q.4 | (a) | Explain role of automation and IT in garment industry. | 07 |
| Q.4 | (b) | Describe various needle points with diagram. | 07 |
| Q.5 | (a) | Compare wovens and warp knits made of filament yarns. | 07 |
| Ψ.σ | (b) | Enlist stages of product development in design department of garment | 07 |
| | ` ′ | industry & explain any two in detail. | |
| | | OR | |
| Q.5 | (a) | What is the objective of cutting? Hence explain cutting operation by | 07 |
| | | computer controlled cutting knife. | ^ - |
| | (b) | Discuss different nature of fabric packages used in spreading. | 07 |
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