No. of Printed Pages: 2

MFR-001

## M.Sc. FOOTWEAR DESIGN AND PRODUCTION (MSCFDP)

00863

## Term-End Examination December, 2016

## MFR-001 : PRODUCT KNOWLEDGE AND MATERIAL FOUNDATION

| Tin   | ne : 3 i                   | hours Maximum Marks : 70                     |
|---|----------------------------|--|
| Note: Attempt any seven questions. All questions carrequal marks. |                            |  |
| 1.  | Fill in the blanks: 10×1=. |  |
|   | (a)                        | Neoprene is the trade name of                |
|   | (b)                        | TPU is the abbreviation of                   |
|   | (c)                        | For micro-rubbers adhesives are recommended. |
|   | ( <b>d</b> )               | Polyamides have the generic name             |
|   | (e)                        | Leather can breathe because of its           |
|   | <b>(f)</b>                 | Slink is a skin of,                          |
| ,   | ( <b>g</b> )               | Burnish leather gives on hard brushing.      |
|   | (h)                        | toe-puffs are used for heavy army boots.     |
|   | (i)                        | By roughing and scouring we increase         |
|   | <b>(j</b> )                | Felts are generally prepared from            |
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| 2.        | How do we measure the thickness of yarn? What is ply? What is the impact of ply on stitching? Which type of (material and ply) thread is used for upper stitching?  10 |  |  |
|-----------|--|--|--|
| 3.        | What do you understand by mechanical and chemical bonding? Discuss with suitable examples.   |  |  |
| 4.        | Write short notes on the following: $4\times2\frac{1}{2}=10$   |  |  |
|           | (a) Reverse Side Suede Leather   |  |  |
|           | (b) PU Film Coated   |  |  |
|           | (c) Primer   |  |  |
|           | (d) Hot Melt Adhesive  |  |  |
| 5.        | Explain various types of reinforcement used in footwear. 10  |  |  |
| 6.        | Draw the flow diagram of shoe making process and explain each operation in brief. 10   |  |  |
| <b>7.</b> | Explain various sizing systems in brief. 10  |  |  |
| 8.        | How will you differentiate between TPR, PU and PVC? Discuss in brief.  |  |  |
| 9.        | Write down three types of shoe accessories, which can enhance the appearance of the shoe, and provide comfort as well.  10   |  |  |
| 10.       | What is the difference between injection moulding and vulcanization in footwear making?  |  |  |
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