

**M.Sc. CREATIVE DESIGN CAD-CAM
(MSCCAD)**

Term-End Examination

December, 2017

00001

**MFR-040 : ADVANCE AND VIRTUAL PRODUCT
DESIGN (FOOTWEAR)**

Time : 3 hours

Maximum Marks : 70

*Note : Attempt any **seven** questions. All questions carry
equal marks.*

1. What is virtual product design process in relation to footwear design development ? Explain virtual product development in respect to upper and bottom parts separately. 10
2. What is the output of 3D Footwear CAD ? Explain how it can satisfy potential customers. 10
3. Explain 3D input processes. Explain any example of 3D input with its utilization. 10

4. Explain the process of modification of last on 3D. Explain the process with an example to modify a shoe last to ankle boot last. 10
 5. How is orthopedic product development different from fashion product development ? 10
 6. How does 3D CAD work ? Explain with the help of an example. 10
 7. Explain 3D printing. Give any three applications of 3D printing. 10
 8. Give a comparative study of 3D output and 2D output. 10
 9. Explain the process of welt generation on rand area with graphic illustration. 10
-