

**B.Sc. IN LEATHER GOODS AND ACCESSORIES  
DESIGN (BSCLGAD)**

00280

**Term-End Examination**

**December, 2014**

**BFW-064 : COMPUTER AIDED DESIGN**

*Time : 3 hours*

*Maximum Marks : 70*

---

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

---

1. A triangle ABC which has three points A [3, -1], B [4, 1] and C [2, 1], is rotated by  $90^\circ$  about the origin in counter-clockwise direction. Calculate the position vectors of the rotated triangle. 10
2. Why are synthetic curves used for many engineering applications ? 10
3. Discuss the construction and characteristics of B-splines. 10
4. Determine the parametric form of a straight line joining two position vectors A (3, 5) and B (7, 8) and its slope as well. 10
5. Give a brief history of Initial Graphics Exchange Specifications (IGES) and explain its salient features. 10
6. Explain the various types of sweeps with the help of neat sketches. 10

7. What is Rhinoceros ? Why is it named Rhinoceros ? 10
  8. What happens if we select a surface instead of a curve ? 10
  9. What is the full form of NURBS ? What is its role in Rhino software ? 10
  10. How do we import a raster image into Rhino ? 10
-