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M.Sc. IN LEATHER GOODS AND ACCESSORIES DESIGN (MSCLGAD)

Term-End Examination

December, 2013 MFW-050: GEOMETRIC CONSTRUCTION Time: 3 hours Maximum Marks: 70 **Note:** Attempt all questions. 10 1. What is the number of edges, faces and vertices of each of the following? (a) Cube (b) Octahedron Dodecahedron (c) (d) Icosahedron (a) Define Platonic solids and what are their 10 characteristics? What do you understand by the term (b) "Fibonacci Spiral" and "Fibonacci Series"? Give examples from the nature where you can see the Fibonacci spiral. What is the "Dual" of a cube? (a) 10 (b) How many edges and vertices does a pyramid have? What is the vertices configuration of a (c)

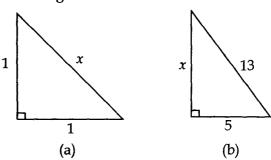
(c) What is the vertices configuration of a cuboctahedron and a truncated icosahedron?

4. What do you understand by the pythagarous theorem? Calculate the 'x' for each of the following:

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- 5. Define Archimedian solids and state the characteristics of Archimedian solids.
- **6.** Explain each of the following terms :
 - (a) A polygon
 - (b) Truncation of a solid
 - (c) Golden proportion
 - (d) Dodecahedron(e) Complementary Angles
- 7. Calculate the 'x' for each of the following figures:

