

00821

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

**Term-End Examination**

**December, 2013**

**BFW-051 : GEOMETRY CONSTRUCTION**

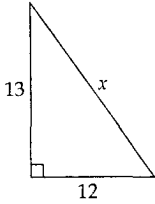
*Time : 3 hours*

*Maximum Marks : 70*

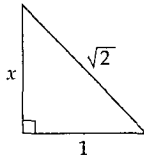
*Note : Attempt all questions.*

1. Define the following : 2
  - (a) A ray
  - (b) A regular Polygon
  - (c) Dodecahedron
  - (d) Semi-Regular Tessellation
  - (e) Dual of a solid
  - (f) Truncation of a solid
  - (g) Archimedian solids
  - (h) Fibonacci Spiral
  - (i) Complementary Angles
  - (j) Platonic Solids
  
2. What do you understand by Golden Proportion ? 1  
Give examples of Golden Proportion from the nature or your environment.
  
3. (a) What do you understand by "Pythagorous theorem" ? 1

(b) Calculate the 'x' in the following diagrams.

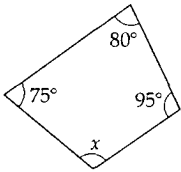


(a)

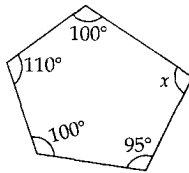


(b)

4. Calculate the 'x' for each of the following figures 10  
figures.



(a)



(b)

5. (a) Explain the concept of "Duality". 10  
(b) What is the dual of a cube?  
(c) What is the vertices configuration of a cuboctahedron?

6. How many edges, faces and the vertices do the following have? 10

- (a) Cube
- (b) Dodecahedron
- (c) Icosahedron
- (d) Octahedron

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