No. of Printed Pages: 3

MFW-050

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

Term-End Examination

1211

2.

December, 2015

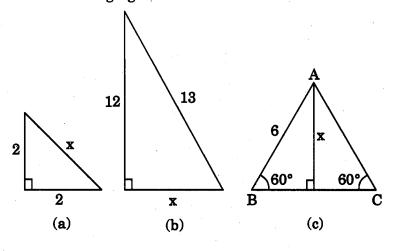
MFW-050: GEOMETRIC CONSTRUCTION

Time: 3 hours Maximum Marks: 70

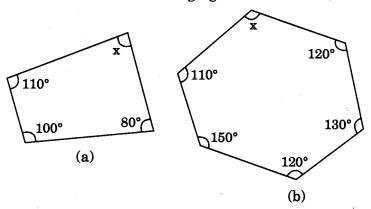
Note: Answer any **seven** questions. All questions carry equal marks. Use of scientific calculator is permitted.

 Calculate the measure of interior angle of a regular Pentagon and a regular Decagon.

Define the Pythagoras theorem and calculate 'x' in the following figures:



3. Calculate 'x' in the following figures:



- 4. (a) What are complementary angles and supplementary angles?
 - (b) What is the sum of all the interior angles of a hexagon? $2\times5=10$
- **5.** Define any *five* of the following:

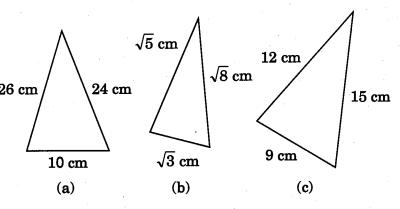
 $5 \times 2 = 10$

10

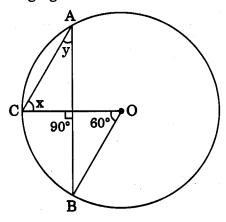
- (a) Radius of a Circle
 - (b) Platonic Solids
 - (c) Regular Hexagon
 - (d) Fibonacci Spiral
 - (e) Vertice Configuration of a Polygon
 - (f) Median of a Triangle
- 6. (a) What is the golden ratio?
 - (b) How is the golden ratio related to the golden rectangle? $2\times 5=10$

Do the following triangles have right angles ? Explain.

10



- (a) The sides (in cm) of a right angled triangle containing the right angle are 5x and 3x 1. If the area of the triangle is 60 cm^2 , find the sides of the triangle.
 - (b) Find the value of x and y from the adjoining figure.



 $2 \times 5 = 10$