

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

Term-End Examination

June, 2015

00320

BFW-051 : GEOMETRIC CONSTRUCTION

Time : 3 hours

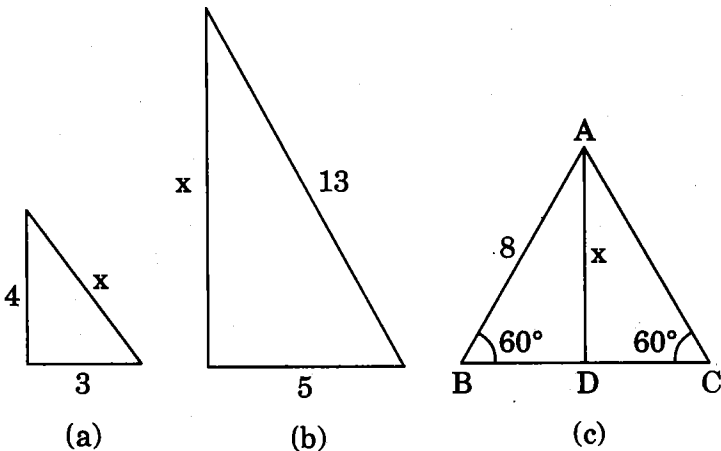
Maximum Marks : 70

Note : Answer any seven questions. All questions carry equal marks. Use of calculators is permitted.

1. What do you mean by platonic solids ? Explain all of the five platonic solids. 10

2. Construct the following equilateral 2 - D forms : 5×2=10
 - (a) Triangle (Each side = 08 cm)
 - (b) Square (Each side = 06 cm)
 - (c) Pentagon (Diameter = 10 cm) Inside circle
 - (d) Hexagon (Diameter = 10 cm) Inside circle
 - (e) Octagon (Diameter = 10 cm) Inside circle

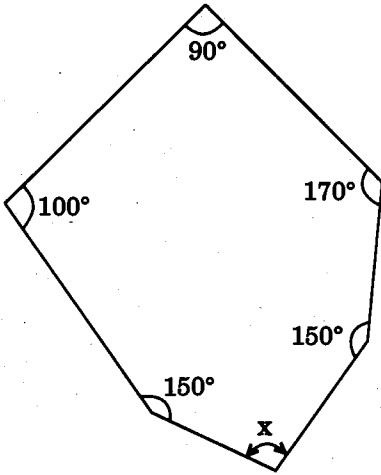
3. What do you understand by Golden Proportion ?
Give few examples for the same. 10
4. What are Tessellations ? Name and explain the
different types of tessellations. 10
5. Identify the following series and explain.
0, 1, 1, 2, 3, 5, 8, 13, 21, 34, 55, 89, 144, ..., ..., ..., ...,
Fill in the next four blanks in the series. 10
6. Calculate the measure of the interior angles of a
regular hexagon and a regular octagon. 10
7. Explain the Pythagoras theorem and calculate x
in the following figures : $3+3+4=10$



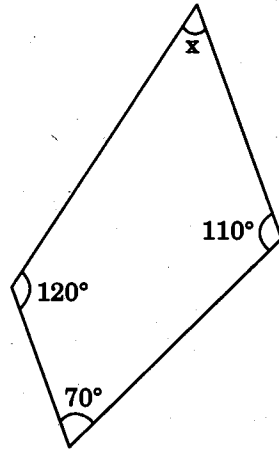
Figure

8. Calculate 'x' in the following figures :

$$2 \times 5 = 10$$



(a)



(b)