

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

Term-End Examination
June, 2011

00072

BFW-051 : GEOMETRY CONSTRUCTION

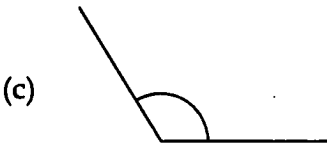
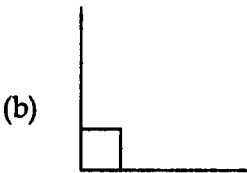
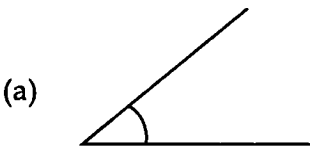
Time : 3 hours

Maximum Marks : 70

Note : All questions are compulsory. Use of calculator is permitted.

1. Write the name of each angle.

5



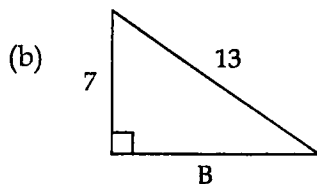
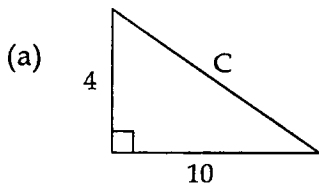
2. Name the platonic solids.



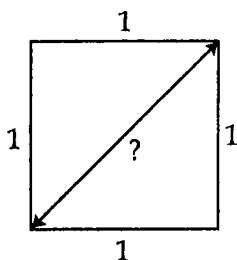
3. (a) A cube has _____ Faces, $5 \times 3 = 1$ _____ vertices (corner points) _____ edges.
- (b) Tetrahedron has _____ Faces _____ vertices _____ edges.
- (c) Octahedron has _____ Faces _____ vertices _____ edges.
- (d) Dodecahedron has _____ Faces _____ vertices _____ edges.
- (e) Icosahedron has _____ Faces _____ vertices _____ edges

4. Solve the following triangle :

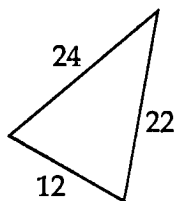
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5. What is the diagonal distance across a square of size 1 ? 5



6. Do the triangle given below have right angle ? 3
Explain.

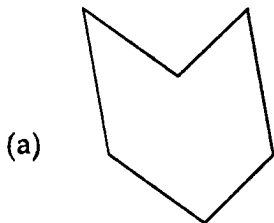


7. Does an 8, 15, 16 triangle have a Right Angle or Does $8^2 + 15^2 = 16^2$? 3
8. State the definition of complimentary and supplementary angles. 3
9. What do we call a six - sided polygon ? 3
- (a) Heptagon (b) Henagon
(c) Hexagon (d) Pentagon

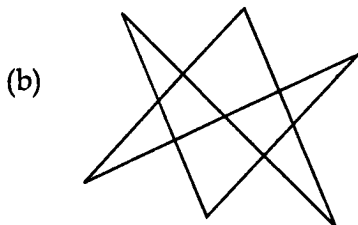
10. What do we call an eleven sided polygon ? 3

- (a) Dodecagon
- (b) Heptadecagon
- (c) Hexadecagon
- (d) Hendecagon

11. Which of the following most accurately describe the polygon in the diagrams ? 6

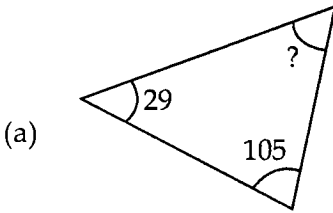


- (i) Regular Hexagon
- (ii) Irregular convex hexagon
- (iii) Irregular concave hexagon
- (iv) Complex Hexagon



- (i) Regular Hexagon
- (ii) Irregular concave heptagon
- (iii) Irregular heptagon
- (iv) Irregular Complex Hexagon

12. Identify the Interior angles of the given polygons. 9

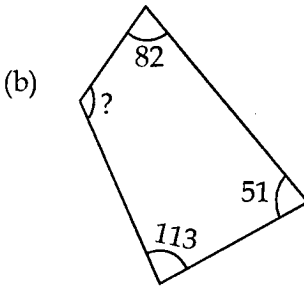


(i) 29°

(ii) 36°

(iii) 46°

(iv) 56°

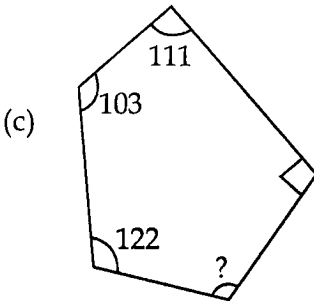


(i) 134°

(ii) 129°

(iii) 124°

(iv) 114°



(i) 108°

(ii) 114°

(iii) 124°

(iv) 129°