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

Term-End Examination

June, 2011

00624

MFW-050 : GEOMETRIC CONSTRUCTION

Time : 3 hours   *Maximum Marks : 70*

*Note : All questions are **compulsory.***

1. State the definition of complimentary and   5
    supplementary angles.

2. Illustrate and explain the following angles.   5

    (a) Straight   (b) Acute

    (c) Right   (d) Obtuse

3. Select the correct words from the options and fill   10
    up the space.

    (a) Surface   (b) Line

    (c) Straight   (d) Space

    (e) Ray   (f) Line segment

    (g) Solid   (h) Plane

    (i) Solid Geometry   (j) Plane Geometry

(i)   A _____ is a flat surface.

(ii)   _____ is the geometry of planar figures (two dimensional).

(iii) _____ is the set of all points.

(iv)   _____ is a three dimensional geometric figure.

(v)   _____ is the boundary of a solid.

(vi)   A _____ is the path formed by moving points.

(vii) A _____ is a portion of a line.

(viii) A _____ is an infinite set of collinear points extending from one end point to infinity.

(ix)   A length of a _____ is the shortest distance between two nonadjacent points.

(x)   _____ is the geometry of three dimensional figures.

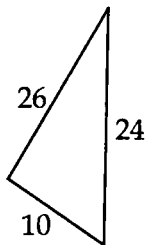4.   Solve the following triangles :   10

(a)

(b)
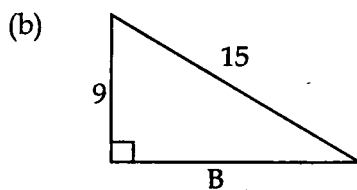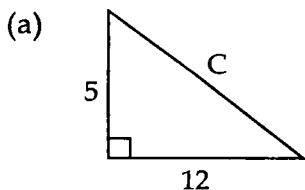
5. What is the diagonal distance across a square of size 1 ?   **5**
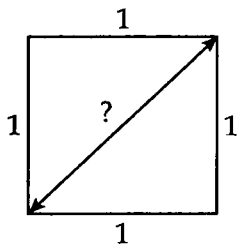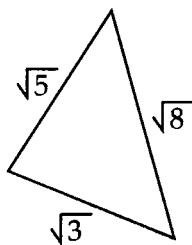

6. Do these triangles given below have Right Angle.   **10**
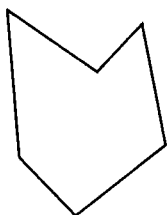
(a)   (b)

7. Does an 8, 15, 16 triangle have Right Angle or does $8^2 + 15^2 = 16^2$?   **5**
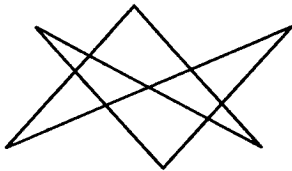
8. Which of the following most accurately describes the polygon in the diagram ?   **10**

(a)

    (i)   Regular Hexagon

    (ii)   Irregular Convex Hexagon

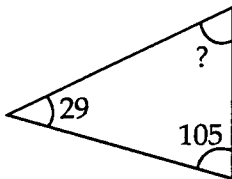   (iii) Irregular Concave Hexagon

    (iv) Complex Hexagon

(b)

(i)   Regular Hexagon

(ii) Irregular Concave Heptagon

(iii) Irregular Heptagon

(iv) Irregular Complex Hexagon

9. What do we call an eleven - sided polygon ?   1

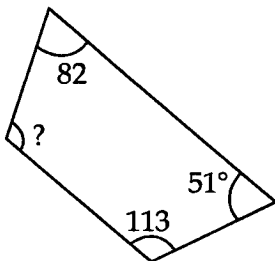(a) Dodecagon   (b) Heptadecagon

(c) Hexadecagon   (d) Hendecagon

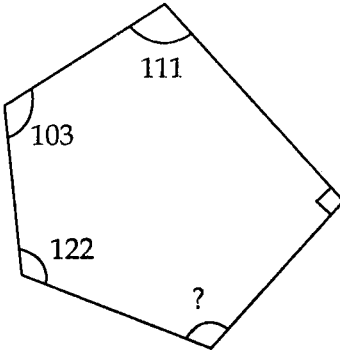10. Identify the interior angle of the triangles given   9
below :

(a)

(i)   29°   (ii) 36°

(iii) 46°   (iv) 56°

(b)

(i)   134°   (ii) 129°

(iii) 124°   (iv) 114°

(c)

(i)   108°   (ii)   114°
(iii) 124°   (iv)   129°

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