

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

Term-End Examination

June, 2013

MFW-050 : GEOMETRIC CONSTRUCTION

Time : 3 hours

Maximum Marks : 70

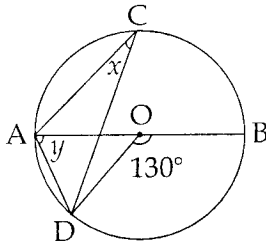
Note : Attempt all questions.

1. (a) State the characteristics of The "Fibonacci Series". 10
(b) Give examples from nature where you can see the Fibonacci spiral.

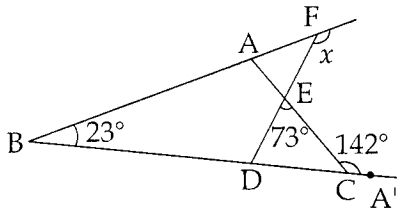
2. (a) What are Complementary Angles and Supplementary Angles ? 10
(b) What is the sum of all the Interior angles of a hexagon ?
(c) Calculate the measure of the external angles of a regular pentagon.

3. (a) What do you understand and by the radius of a circle ? 4

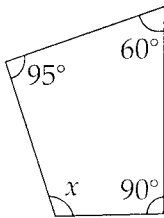
- (b) (i) From the given figure find the value of x and y . **2x3=6**



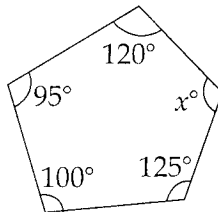
- (ii) From the given figure find the value of x .



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



(a)



(b)

5. (a) What do you understand by the term "Tessellations" ? 10
(b) What are the different types of "Tessellations" ?
(c) What are the characteristics of a semi-regular Tessellation ?
6. Define each of the following : 20
(a) Chord of a circle
(b) A regular polygon
(c) Platonic solids
(d) Golden proportion
(e) Fibonacci spiral
(f) Dual of a solid
(g) Supplementary Angles
(h) Icosahedron
(i) Truncation of a solid
(j) Vertice configuration of a polygon
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