

**B.Arch. Sem-2 Examination****AR 206****Geometry-II****April 2022****Time : 2-00 Hours]****[Max. Marks : 50**

**Note:** All questions are compulsory.

The figure to the right indicates the marks for a given question

Support your answer with relevant illustrations and sketches, wherever required.

**Q-1 Answer the below mentioned questions in detail with suitable examples and sketches:**

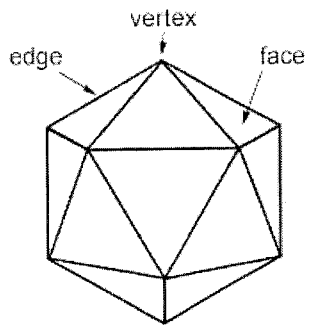
- 1      Take an illustration of any one architectural building, emphasizing on its geometry. (15)
  
- 2      Create three options of composition by using four squares( 5 cmX 5 cm each) and 2 triangles(whose one side is 5 cms). Compare the three compositions with valid pros and cons. (15)
  
- 3      Write a note on geometry that is existing in nature through varied examples and support with sketches or diagrams (10)

**Q-2      Multiple Choice Questions: (10)**

1. How many vertices are there in a cube?
  - (a) 4
  - (b) 6
  - (c) 8
  - (d) 10
  
2. How many surfaces does a tetrahedron
  - (a) 4
  - (b) 6
  - (c) 5
  - (d) 3
  
3. Is triangle a polygon?
  - (a) Yes
  - (b) No
  - (c) None of the above

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4. Which type of polygon is this?



- (a) Dodecahedron
- (b) Tetrahedron
- (c) Icosahedron
- (d) Triacontahedron

5. Count the vertices of the above given figure in Q-4

- (a) 14
  - (b) 12
  - (c) 10
  - (d) 20
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