



INDIAN SCHOOL MUSCAT

FIRST PERIODIC ASSESSMENT

SUBJECT: ENGINEERING GRAPHICS

CLASS: XII

Sub.Code: 046

Time Allotted: 50mts.

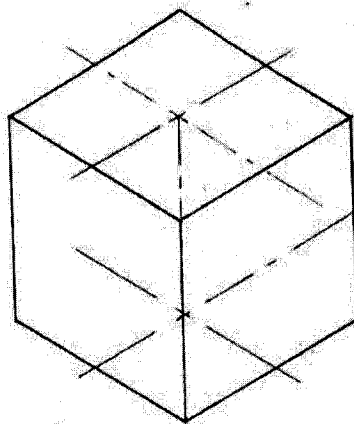
19.04.2023

Max .Marks: 20

GENERAL INSTRUCTIONS:

- i) Attempt all the questions.
- ii) Follow the SP: 46-2003 codes. (with first angle method)
- iii) Missing and mismatching dimension if any may be assumed suitably.
- iv) All dimensions are in millimeters.
- v) Use both side of the drawing sheet, if necessary.

1. Construct an isometric scale up to length of 100 mm. 3
2. Draw the projection of a pentagonal prism of 30 mm base side and 65 mm of axis. The axis of the prism is perpendicular to HP and one of its base edges is perpendicular to VP. 7
3. A frustum of a cone with its base diameters of 60 mm in front and 40 mm at the back, length of axis being 75 mm, is having its axis perpendicular to VP. Draw its isometric projection. Give all dimensions. 7
4. What is the angle between main scale and Isometric scale in the construction of isometric scale? 1
 (a) 15° (b) 30° (c) 45° (d) 60°
5. Select the correct statement/s for the given figure 1

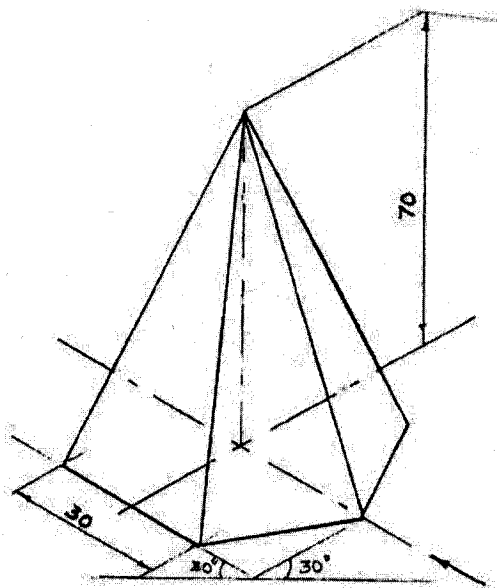


- A. All the edges are non-Isometric lines.
- B. All the edges are isometric lines.
- C. All the faces are seen as foreshortened.
- D. All the faces are seen as triangles.

- (a) A & C only
- (b) B & D only.
- (c) B & C only
- (d) A & D only

6. Select the correct statement/s for the given figure

1



- A. Two of the base edges which are parallel to each other are parallel to VP.
- B. The solid is resting on HP with its axis parallel to VP
- C. Two of the base edges which are parallel to each other are perpendicular to VP
- D. The solid is resting on HP with its axis perpendicular to VP

- (a) A and B only.
- (b) B and C only
- (c) C and D only
- (d) D and A only



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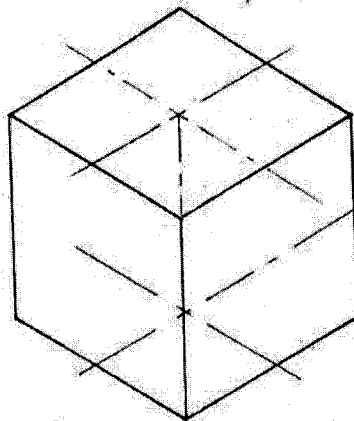
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- Missing and mismatching dimension if any may be assumed suitably.
- All dimensions are in millimeters.
- Use both side of the drawing sheet, if necessary.

- Construct an isometric scale up to length of 100 mm. 3
- A square prism 30 mm side and 65 mm height rests on HP on its base such that its axis perpendicular to HP and two base edges parallel to VP. Draw its isometric projection. 7
- Draw the isometric projection of a cylinder of diameter 40 mm and axial length of 70 mm lying on the HP keeping its axis parallel to HP and VP both. 7
- What is the angle between main scale and Isometric scale in the construction of isometric scale? 1
 - 15°
 - 30°
 - 45°
 - 60°
- Select the correct statement/s for the given figure 1

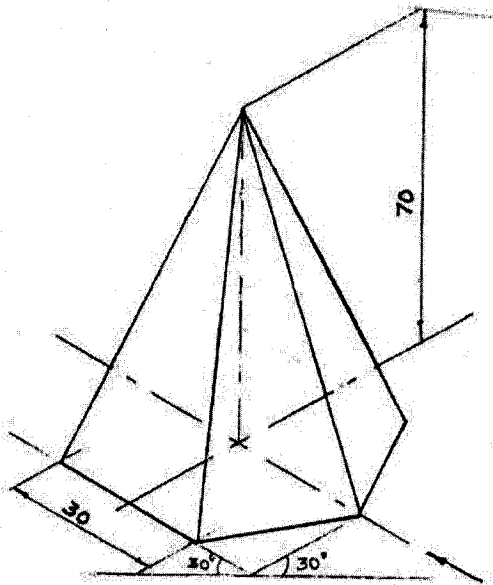


- A. All the edges are non-Isometric lines.
- B. All the edges are isometric lines.
- C. All the faces are seen as foreshortened.
- D. All the faces are seen as triangles.

- (a) A & C only
- (b) B & D only.
- (c) B & C only
- (d) A & D only

6. Select the correct statement/s for the given figure

1



- A. Two of the base edges which are parallel to each other are parallel to VP.
- B. The solid is resting on HP with its axis parallel to VP
- C. Two of the base edges which are parallel to each other are perpendicular to VP
- D. The solid is resting on HP with its axis perpendicular to VP

- (a) A and B only.
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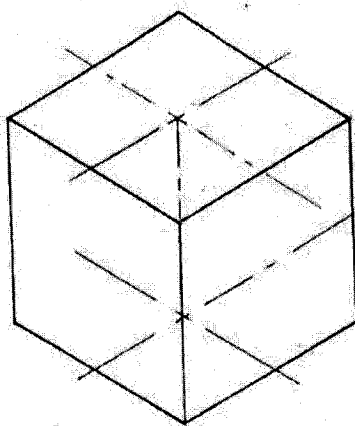
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- iii) Missing and mismatching dimension if any may be assumed suitably.
- iv) All dimensions are in millimeters.
- v) Use both side of the drawing sheet, if necessary.

1. Construct an isometric scale up to length of 100 mm. 3
2. Draw the isometric projection of an inverted pentagonal pyramid of base side 30 mm and axis of 60 mm resting on its base on H.P. with one of its base side parallel to VP and nearer to the observer. 7
3. A frustum of a cone with its base diameters of 60 mm in front and 40 mm at the back, length of axis being 75 mm, is having its axis perpendicular to VP. Draw its isometric projection. Give all dimensions. 7
4. What is the angle between main scale and Isometric scale in the construction of isometric scale? 1

(a) 15°
(b) 30°
(c) 45°
(d) 60°
5. Select the correct statement/s for the given figure 1

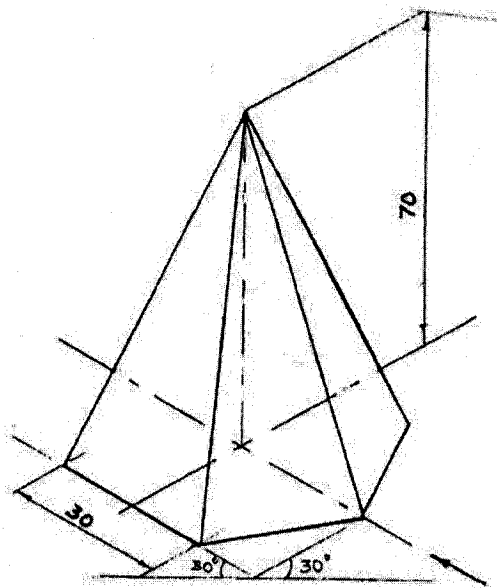


- A. All the edges are non-Isometric lines.
- B. All the edges are isometric lines.
- C. All the faces are seen as foreshortened.
- D. All the faces are seen as triangles.

- (a) A & C only
- (b) B & D only.
- (c) B & C only
- (d) A & D only

6. Select the correct statement/s for the given figure

1



- A. Two of the base edges which are parallel to each other are parallel to VP.
- B. The solid is resting on HP with its axis parallel to VP
- C. Two of the base edges which are parallel to each other are perpendicular to VP
- D. The solid is resting on HP with its axis perpendicular to VP

- (a) A and B only.
- (b) B and C only
- (c) C and D only
- (d) D and A only