A

INDIAN SCHOOL MUSCAT
SECOND PERIODIC ASSESSMENT

SUBJECT: ENGINEERING GRAPHICS

CLASS: XII   Sub.Code: 046   Time Allotted: 50mts.

17.05.2023   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. Draw an isometric projection of a square pyramid resting vertically   12
    and centrally on the top pentagon face of a pentagonal prism, having
    one rectangular face parallel to VP while closer to the observer. Side
    of the square base = 30 mm, height of the pyramid = 50 mm, side of
    the pentagon = 34 mm and height of the prism = 52 mm.

2. Draw to scale 1:1, the standard profile of metric screw thread   8
    (internal) taking enlarged pitch as 50mm. Give standard dimensions.

B

INDIAN SCHOOL MUSCAT
SECOND PERIODIC ASSESSMENT

SUBJECT: ENGINEERING GRAPHICS

CLASS: XII   Sub.Code: 046   Time Allotted: 50mts.

17.05.2023   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. Draw an isometric projection of a sphere resting centrally on a   12

    rectangular face of a horizontal hexagonal prism having its hexagonal

    ends perpendicular to VP. Side of hexagon = 30 mm, length of the

    prism = 80 mm and diameter of sphere = 60 mm.

2. Draw to scale 1:1, standard profile of B.S.W. thread (Internal), taking   8

    pitch = 40 mm. Give standard dimensions.

INDIAN SCHOOL MUSCAT
FIRST PERIODIC ASSESSMENT

SUBJECT: ENGINEERING GRAPHICS

CLASS: XII

17.05.2023

Sub.Code: 046

Time Allotted: 50mts.

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. Draw an isometric projection of hemisphere resting centrally on its   12
   curved surface, on the top horizontal rectangular face of an
   equilateral triangular prism, keeping two triangular faces parallel to
   the VP. Side of equilateral triangle = 50 mm, length of the prism = 70
   mm and diameter of the hemisphere = 60 mm.

2. Draw to scale, 1:1, the standard profile of a Knuckle thread (internal   8
   and external), taking enlarged pitch as 40mm.