Seat No. _____

HN-1901390201020300

First Year B. A. (ID) (Sem. II) Examination

April - 2023

Technical Representation Drawing-II

Time : **3** / Total Marks : **50**

Instructions : (1) All questions are compulsory and carry equal marks.
(2) Any ambiguity will be considered as a wrong answer.

1 Multiple Choice Questions : **10**

(1) A prism and cone got intersected at 90 degrees the line of intersection will be _____ and parallel to axis of _____.

(A) straight line, prism (B) curve, prism
(C) straight line, cone (D) curve, cone

(2) The line of intersection formed is straight line while two solids are intersecting the solids may be _____.

(A) cube, cylinder (B) prism, cone
(C) pyramid, cuboid (D) cube, cone

(3) The line of intersection formed is curve while two solids are intersecting the solids may be _____

(A) cylinder, sphere (B) prism, prism
(C) cuboid, cube (D) prism, pyramid

(4) A cylinder of 80 mm diameter and 100 mm axis is completely penetrated by a cone of 80 mm diameter and 120 mm long axis horizontally. Both axis intersect and bisect each other. What will be its top view?

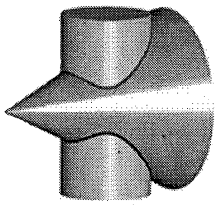
(A) Triangle with a circle (B) Cylinder with a triangle
(C) Cylinder with a circle (D) Circle with a cylinder

(5) A cylinder 50 mm dia. and 70 mm axis is completely penetrated by a triangular prism of 45 mm and 70 mm axis, horizontally. One flat face of prism is parallel to VP and contains axis of cylinder. Draw projections showing curves of intersections.

(A) Triangle with a circle (B) Cylinder with a triangle

(C) Cylinder with a circle (D) Circle with a cylinder

(6) The red, blue curve in the figure (shown below) represents _____



(A) welding (B) joining

(C) fitting (D) curve of intersection

(7) The _____ planes are so selected as to cut the surface of one of the solids in straight lines and that of the other in straight lines or circles.

(A) line (B) cutting

(C) horizontal (D) xy

(8) The development of cylinder is a _____

(A) triangle (B) rectangle

(C) square (D) trapezium

(9) The development of lateral surfaces of a pentagonal pyramid is _____.

(A) Five rectangles (B) Five squares

(C) Five triangles (D) Five circles

(10) Developments of the lateral surface of a prism consist of the same number of _____ in contact as the number of the sides of base of the prism.

(A) squares (B) rectangles

(C) triangles (D) parallelograms

2 Intersection of solids : **10**

A vertical cylinder of 60 mm diameter and 90 mm length is completely penetrated by a cone, base 60 mm diameter and axis 80 mm long, the two axes bisecting each other at right angles. Draw the projections showing lines of intersection.

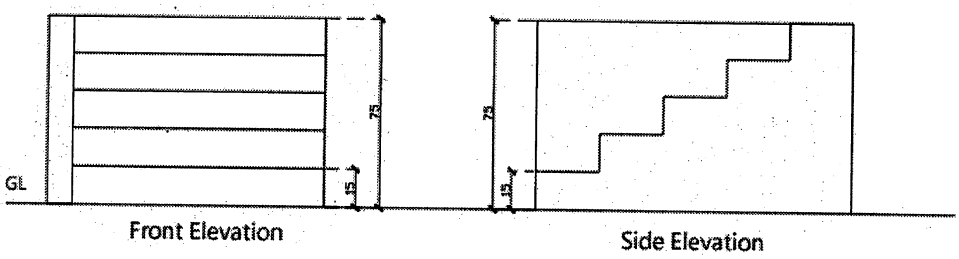
OR

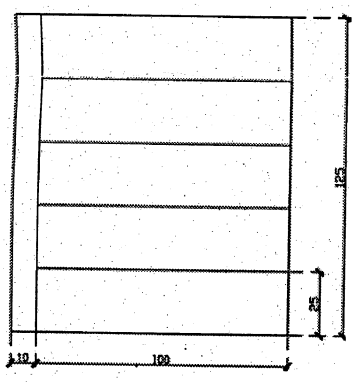
A vertical square prism, base 50 mm side and 90 mm length, is completely penetrated by a horizontal square prism, base 35 mm side and 100 mm length, so that their axis intersect 6 mm apart. The axis of the horizontal prism is parallel to the V.P., while the faces of two prisms are equally inclined to the V.P. Draw the projections of the solids, showing lines of intersection.

3 Draft one point perspective of: **15**

Picture Plane : Center of the plan

Vanishing point and spectator point: right of the object.





4 Draft the sciography of: **15**

Axis parallel to VP and perpendicular to HP

Distance of object : 100 mm away from VP.