



CBCS 2021 – SCHEME

21EVN15/25

USN

--	--	--	--	--	--	--	--	--	--

First/Second Semester B.E./B.Tech. Degree Examination, June/July 2024

ENGINEERING VISUALIZATION

Time: 3 Hours

(COMMON TO ALL BRANCHES)

Max.Marks:100

Note: 1. Answer all four full question.

2. Grid sheets may be provided for making preparatory sketches.

Module – 1		
Q. No.		Marks
1 a	A point P is 15 mm above HP & 25 mm in front of VP. Another point Q is 25 mm behind VP and 40 mm below HP. Draw their projections when the distance between their projectors parallel to XY line is zero mm. Add the right side view only to point Q.	8
1 b	A line AB measuring 70 mm has its end A 15 mm in front of VP and 20 mm above HP and the other end B is 60 mm in front of VP and 50 mm above HP. Draw the projections of the line and find the inclinations of the line with both the reference planes of projection.	12
Module – 2		
2	A hexagonal prism 25 mm sides of base and 50 mm axis length rests on HP on one of its edges. Draw the projections of the prism when the axis is inclined to HP at 45° and appears to be inclined to VP 40° .	30
Module – 3		
3	A sphere of diameter 50 mm rests centrally on top of a cube of sides 50 mm. Draw the isometric projections of the combination of solids.	25
Module - 4		
4	A square prism of base sides 30 mm and axis length 60 mm is resting on HP with all the vertical faces equally inclined to VP. It is cut by an inclined plane 60° to HP and perpendicular to VP and is passing through a point on the axis at a distance of 50 mm from the base. Obtain the development for the truncated portion of the solid.	25

Examiner 1:
Name:
Signature:

Examiner 2:
Name:
Signature: