

Reg. No.

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B.E / B.TECH. DEGREE EXAMINATIONS, MAY 2023

First Semester

ME22101 – ENGINEERING DRAWING

(Common to ME, MN, MR)

(Regulation 2022)

TIME: 3 HOURS

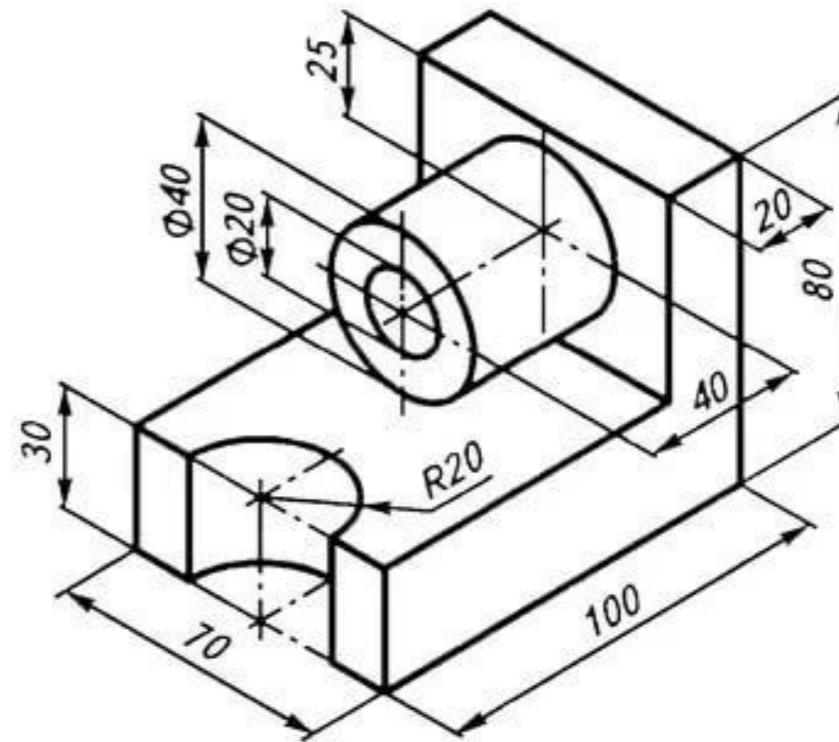
MAX. MARKS: 100

COURSE OUTCOMES	STATEMENT	RBT LEVEL
CO 1	Construct conic sections and curves and sketch the orthographic views of lines as per drawing standards.	3
CO 2	Draw orthographic projections of plane surfaces and simple solids in various positions.	3
CO 3	Draw the various views of sectioned solids and develop the lateral surfaces of simple solids.	3
CO 4	Draw isometric projections of simple solids and their combinations and the orthographic projection of the intersection of surfaces of simple solids.	3
CO 5	Sketch the orthographic projections of a given isometric view and vice versa using free hand.	3

PART- A (5 x 16 = 80 Marks)

Marks	CO	RBT LEVEL
1. (a)	1	3
(OR)		
(b)	1	3
2. (a)	2	3
(OR)		
(b)	2	3
3. (a)	3	3
(OR)		

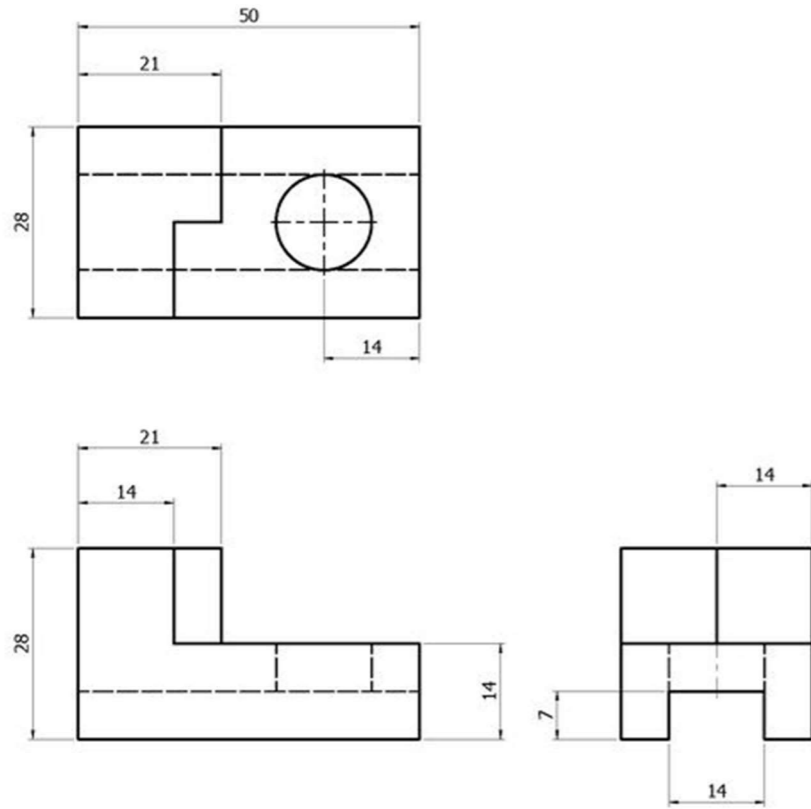
- (b) A pentagonal pyramid has a base side of 30 mm and axis height of 70 mm. It rests with its base on H.P, such that one of the base edges perpendicular to V.P. The pyramid is cut by a plane which bisects the axis and it is inclined at 30° to HP. Draw the development of the remaining portion of the pyramid. (16) 3 3
4. (a) A hexagonal pyramid of base side 30 mm and height 60 mm rests on its base on H.P with two of its base edges perpendicular to V.P. It is cut by a plane perpendicular to V.P and inclined at 25° to H.P, meeting the axis at a point 25 mm above the base of the pyramid. Draw the isometric projection of the truncated pyramid. (16) 4 3
- (OR)
- (b) A cylinder 50 mm diameter. and 70 mm axis is completely penetrated by another of 40 mm diameter, and 70 mm axis horizontally. Both axes intersect & bisect each other. Draw the projections showing curves of intersections. (16) 4 3
5. (a) Draw the three orthographic views for the following fig. (16) 5 3



(OR)

(b) Draw the isometric views for the following fig.

(16) 5 3



PART- B (1 x 20 = 20 Marks)

6. A circus animal rides small motor bike inside a globe of 200 mm diameter. The motor bike has the wheel of 40mm diameter. Draw the locus of the point on the circumference of the motor-bike for one complete revolution.

Marks	CO	RBT LEVEL
(20)	1	3
