Total No of Questions: [12]

SEAT NO.:	

[Total No. of Pages: 8]

F.E. 2008 (Engineering Graphics -I)

(Semester - I)

Time: 4 Hours

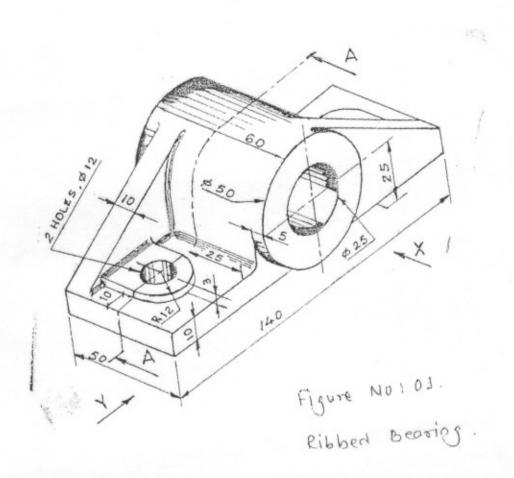
Max. Marks: 100

Instructions to the candidates:

- 1) Answers to the two sections should be written in separate answer books.
- 2) Neat diagrams must be drawn. Retain all construction lines
- 3) Figures to the right side indicate full marks.
- 4) Assume Suitable data if necessary

UNIT – I ENGINEERINGS CURVES

ENGINEERINGS CONVES	
Q.1] A) A ball is thrown up in the air reaches a maximum height of 70mm and trav horizontal distance of 50mm. Trace the path of ball assuming to be a parabolic. tangent and normal at any point on the curve.	
B) A circle of 50mm diameter rolls on outside the circumference of the directing circle same diameter without slipping.	cle of
Draw and Epi-cycloid of point 'P' touching the point of contact of both circle one complete revolution.	es for [8]
OR	
Q.2] A) The major axis of an ellipse is 140mm and the distance between the foci is 90 Draw an ellipse by Oblong (Rectangle) method, state the length of minor axis.	0mm. [7]
B) A rod AB 100mm long is rotating about point 'B'. During the time rod complete revolution, point 'P' starts from A and moves along rod uniformly to B and reaches to point A. Draw the path traced out by point 'P'. Give name to curve.	
UNIT – II	
ORTHOGRAPHIC PROJECTION	
Q.3] Figure 1 shows a pictorial view of a 'Ribbed bearing'. Draw the following	views
using first angle method of projection:	
 a) Sectional elevation in the direction of X (Section along A-A) 	[7]
b) Plan.	[5]
c) End view from left.	[5]
Give all dimensions.	[3]
OR	
Q.4] Figure 2 shows a pictorial view of a Slide Bracket'. Draw the following views first angle method of projection:	using
a) Sectional elevation in the direction of X. (Section along A-A) b) Plan.	[7] [5]
c) Side view looking along B.	[5]
Give all dimensions.	[3]
UNIT – III	
AUXILLIARY PROJECTION	
Q.5] Figure 3 shows Front view, incomplete top view and partial auxiliary front view machine part:	ew of
a) Redraw the given views	[5]
b) Complete the top view.	[8]
Give all dimensions.	[2]
OR	
Q.6] Figure 4 shows Front View, partial auxiliary view and incomplete top view:	
a) Redraw the given views	[5]
b) Complete the top view.	[8]
Give all dimensions	[2]



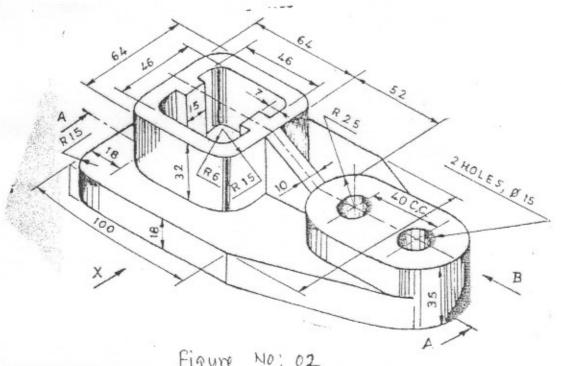


Figure No: 02

& slide Braket

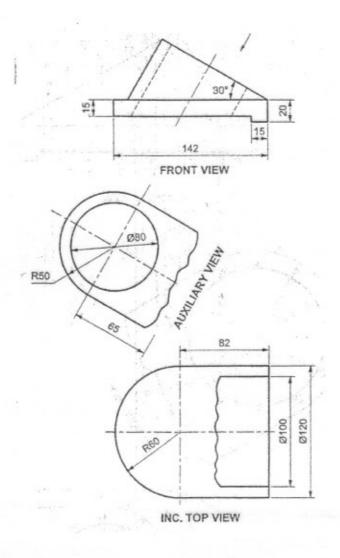


figure No: 03.

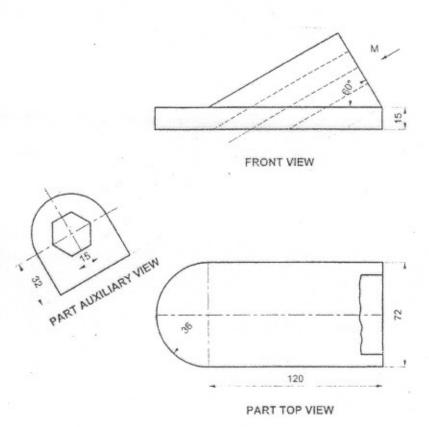


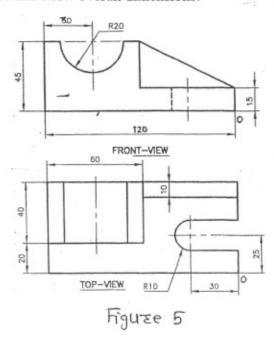
Figure No: 04.

SECTION - II

UNIT - V: ISOMETRIC

The figure 5 shows FV and TV of a machine part. Draw its isometric view by Q.7 using natural scale and show overall dimensions.

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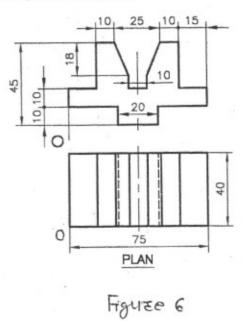


OR

Q.8

The figure 6 shows FV and Prof a machine part. Draw its isometric projections by using isometric scale.

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UNIT - VI: MISSING VIEWS

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٩,	1.9	The figure /	SHOWS	r v and	LUOA	or a	macnine	part.	Draw

(A) Sectional Front View, along section A-A			
(B)	Top View		7

- Top View (B)
- (C) Left Side View

3

3

Dimensioning (D)

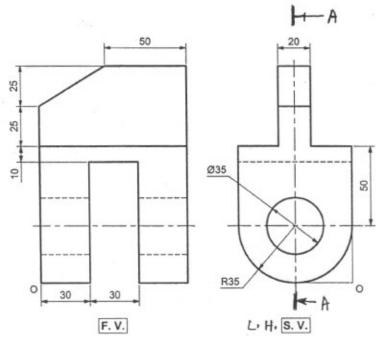
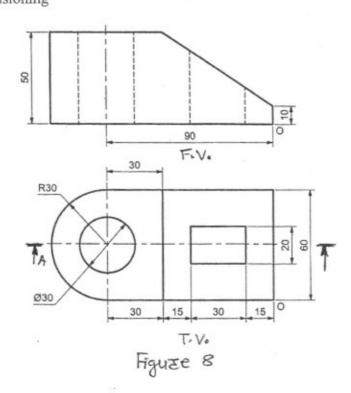


Figure 7

Q.10		The figure 8 shows FV and TV of a machine part. I	Draw	
	(A)	Sectional Front View, along section A-A		7
	(B)	Top View		3
	(C)	Right Side View		7
	(D)	Dimensioning		3



UNIT - VII: FREE HAND SKETCHES

Q.11	Draw proportionate freehand sketches of any two of the following: Rag Foundation bolt, Compression helical spring and Wing nut	10
	OR	
Q.12	Draw proportionate freehand sketches of any two of the following: Lifting eye bolt, Square thread, Gib-headed key with assembly	10

