E-883 B.E. First Semester (Re-Exam)

Examination, December-2018

Engineering Drawing (ECE-103T)

BE (CSE, ECE)

Time: Three Hours |

[Maximum Marks : 75

[Min Marks : 30

Note: Attempt all questions of Section-A, four from Section-B and three questions from Section-C.

		Section-A					
1.	(a)	The angle which we can't make using both teh set-squares is:					
,		(a) 15°, (b) 105°					
		(c) 165° (d) 125°					
	(b)	What is the standard length and width of the arrowhead of dimension lines?					
		(a) 2mm and 2mm, (b) 3mm and 1mm					
		(c) 4mm and 2 mm (d) 3mm and 2mm					
	(c)	A line AB is on the profile plane inclined such that ends of line are 10, 12 cm away from horizontal plane, which view from the following gives the actual					
		length of the line AB?					

(a) Front view, Top view (b)

Isometric view (c) Side view (d)

(d) Which of the following is not the purpose of using cutting (section) plane?

(a) Interpretation of object, Visualizing of object

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			a wing the nh	ierts.	(d)	Invisible features	are shape and		
		(c)	Cutting the ob.	tionar to both		rence planes the t	plane.		
(e)	(c) Cutting the objects, (d) Invision to the following the shape and A section is perpendicular to both the reference planes the true shape and size is obtained by taking projection of section on to plane. (b) Vertical							
		size	is obtained by	taking projec	(b)	Vertical			
		(c) Profile			(d) Auxiliary n V.P. with square as base on V.P. the parallel to edge of base, the section wi		n V.P. the be		
	(f)	A P	entagon pyrami	d is placed or	ontiel to	edge of base, the	section will be		
'	,,,	tino	plane is paralle	to H.P. and	paraller				
		Çii i ş	,		(b)				
		(-)	 Triangle,			nopstneg	ale having		
		(a)	Tranezium		(0)	Pentagon If a cylinder is a re -circle and the oth	ctangle had to its		
		(c)	tayelonment (of the lateral	surface o	acircle and the oth	ner equal to		
	(g)	The	development to	theo	f its base				
		one	e side equo.		4.5	of a cylinder is a re- e-circle and the other.			
		len	gth.	e	(b)	Radius	number of		
		(a)	Circumiercii		(a)	nyramid consists	of a number		
		(c)	(a) Circumference (b) (b) (a) Circumference (d) Radius (c) Diameter (c) Diameter The development of lateral surface of a pyramid consists of a number of pyramid consists of a number of lateral surface of a pyramid consists of a number of lateral surface of a pyramid consists of a number of lateral surface of a pyramid consists of a number of lateral surface of a pyramid consists of a number of lateral surface of a pyramid consists of a number of lateral surface of a pyramid consists of a number of lateral surface of a pyramid consists of a number of lateral surface of a pyramid consists of a number of lateral surface of a pyramid consists of a number of lateral surface of a pyramid consists of a number of lateral surface						
	(h)	The	e development ual triangl	e in contact.		Isosceles			
	,,	eq	ual triangi		(b)	pight angle	, aquares,		
		(a)) Equilateral		(d)	consists of	equal square		
		(c)	(c) Scalene						
		Th	equal triangle (b) Isolateral (c) Equilateral (d) Right angle equal squares, (c) Scalene (c) Scalene (d) Right angle equal squares of a cube consists of equal squares. The development of the surface of a cube consists of equal to the length of the edge the length of the side of the squares being equal to the length of the squares equal to the squares equares equal to the length of the squares equal to the length of t						
	(1)	eh.	e length of the s	ide o		4			
		UIL	the cube.						
		or	. 4		(d)	8 nieces?			
		(a) 4) 12 hich method is i	devel	op transi	tion pieces: Approximation	method		
	(j)	(c) 12 method is i	used to use	(b)	Approximation Radial-line deve	lopment		
		Wi	nich method is to parallel-line of paral	levelophierid	(d)	Radial-iii	-25-		
		(a) Parallel	development	tion-B	and pr	ogressive or par		
						nensioning are dre	awing.		
			en	continuous or	th the he	elp of a sultable	est distance from		
	(a) parallel-line development, (b) Radial IIII (c) Triangulation development, (c) Section-B Section-B Continuous or chain dimensioning and progressive or parallel dimensioning system strictly with the help of a suitable drawing. Differentiate between continuous or chain dimensioning and progressive or parallel dimensioning system strictly with the help of a suitable drawing. A point A, is 25mm above HP and is in first quadrant. Its shortest distance from A point A, is 25mm above HP and is in first quadrant.								
2.									
	alle	el un	A, is 25mm ab	-	(2)				
3.	A	יי יייטכ			-5.				
- 8	83								

the XY line is 50mm. Draw its plan and elevation.

- A line AB is contained by a profile plane. Its end A is 44mm behind VP and 12mm below HP and end B is 8mm behind the VP and 52mm below the HP. Draw its projections and find out its TL, θ , ϕ , HT and VT.
- A regular hexagonal lamina, of side 30mm has a central hole of \$34mm. Draw the front and top views when the lamina is resting on HP on one of its side such that the side is parallel to VP and the plane of the lamina is inclined to the HP at
- A cube of 40mm edge is resting on HP on one of its corers such that one of its body diagonal is parallel to HP and inclined at 45° to VP. Draw its projections. 7.

Planes the true shape and

- (a) Wireframe modelling;
- (b) Surface modelling

(c) Solid modelling

Section-C

- 8. Draw the projections of a straight line AB, 100mm long inclined at 450 to the HP and 30 $^{\circ}$ to the VP. A is in the HP and B is in the VP. Find the shortest distance between AB and the XY.
- A 60° set square with its 200mm longest side lying in the HP has its surface inclined at 30° to the HP. The resting edge is inclined at 30° to the VP. Draw the projection of the set square.
- 10. A cube, edge of base 32mm, is cut by a section plane such that the true shape of the section is a regular hexagon. Draw the front and top views of the cube and find the length of sides of the hexagon in the true shape of the section.
- 11. A cone of 110mm base diameter and 50mm height is interpenetrated by a hexagonal prism of 30 mm side such that their axes coincide and are vertical. One of the faces of the prism is parallel to the VP. Obtain the elevation and side view of the prism and cone, showing the interpenetration curve.
- 12. Draw an isometric view of circular disc 75mm diameter and 20mm thick mounted centrally on a shaft 20mm diameter and 75mm long.

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B.E. I Semester (Main & Re) Examination, Dec. 2015 **Workshop Concept**

Branch : ME

Time: Three Hours |

Maximum Marks-75

Minimum Marks-30

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Note: Attempt all the questions of Section-A. Four from Section-B and three questions from Section-C.

Section-A

(Objective Type Questions)

Note: This section will contain ten objective type questions. They may be fill in the blanks , True/False or Multiple Choice Type.

- Name the materials used to make electrode for resistance welding.
- Define the term ' Machining'. 2.
- Define the term 'Arc Blow'. 3.
- The swing diameter over the bed is the height of centre measured from bed of lathe.
- What are 'Chaplets'? 5.
- What do you mean by ' Core- Print'? 6.
- Define 'Angle of Bite'? 7.
- Define 'Slitting'. 8.
- What is Powder Mattallurgy?
- 10. Define Sintering Process.

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Section-B

(Short Answer Type)

Note: This section will contain six questions. Students will ask to attempt any four questions out of six questions.

- 6×4=24
- Explain various part of a Shaper machine tool. With a neat & clean sketch. 1. 2.
- Explain various operation performed on Drilling Machine.
- Differentiate b/w Forward and Backward extrusion process. 3.
- Explain Basic Element of Gating System. 4.
- What is function of flux in welding? Explain the term ' Polarity'. 5.
- Write short note on . 6.
 - (1) Galvanising.
 - (2) Electroplating.

Section-C

(Long Answer Type)

Note: This section will contain four questions. Students will ask to attempt any three questions out of four questions. $12 \times 3 = 36$

- Explain principle parts of Lathe machine tool. Discuss three method of doing taper turning on Lathe machine.
- With the help of neat sketch, explain process of resistance spot welding. How neat balance is obtained in spot welding process. Distinguish between gas welding and gas cutting.
- Explain in detail main characteristics of metal powders upon which properties of finished product depend.
- With the help of sketch, explain working principle of Cupola. Also write its limita-4. tions. Explain metallurgical defect in casting with reason and remedies.

(2)

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...lear stress to linear strain is called Young's modulus.