Seat No:	Enrollment No:
Scal Inc.	եր մասել 110.

Semester: 1

Subject Code:20104103

PARUL UNIVERSITY

FACULTY OF AGRICULTURE

B.Tech.(Dairy Technology) Summer 2018 - 19 Examination

Date: 20/04/2019

Time: 02:00PM TO 04:00PM

	ect Name:E ngineering Drawing Total Marks: 50						
 All Fig Ma 	ructions I questions are compulsory. gures to the right indicate full marks. ake suitable assumptions wherever necessary. art new question on new page.						
Q.1 (A)	Fill in the blanks (Each of 0.5 Mark)	(05					
i)	Chain Thick line will be drawn by						
ii)	Name of the instruments used for drawing a parallel line is						
iii)	If any point is lies above H.P. and In Front Of V.P. then it is lies inquadrant.						
iv)	Name of the curve used on designing a chimney or cooling tower is						
v)	The symbol of projection system is a frustum of						
vi)	The eccentricity of Parabolic curve is						
vii)	If any point is lies below H.P. and In Front Of V.P. then it is lies in quadrant.						
viii)	When we are cutting the cone Parallel to its one of the Generator then the curve generate at the cutting surface is						
ix)	The plane which is perpendicular to the both reference plane is known as	The plane which is perpendicular to the both reference plane is known as					
x)	Continuous Thin with Thick End line will be drawn by						
B)	Multiple Choice Questions (Each of 0.5 Mark) (1						
i)	Which of the following curve used on designing a spring?						
	a)Ellipse b)Parabola c)Spiral d)Cycloid						
ii)	In Unidirectional dimensioning system we have to write down the dimension						
	a)above the dimension line b) below the dimension line						
	c) in between the dimension line d)none of this						
iii)	What is the Internal Angle of Regular Hexagon?						
	a) 72^0 b) 120^0 c) 108^0 d) 60^0						
iv)	Which of the following is true for 1 st Angle Projection System						
	a) Observer – Object - Plane of Projection b) Observer – Plane of Projection – Object						
	c) Object – Observer – Plane of Projection d)None of this						

	is				
	a) Ellipse b) Parabola c)Hyperbola d)Cycloid				
vi)	Which type of line is used for visible outline?				
	a) Continuous Thick (0.5mm) b) Dashed Thin c) Chain Thin d) Chain Thick				
vii)	If any point is lies in 3 rd quadrant then its position will be represented by				
	a) Above H.P & In Front of VP b) Above H.P & Behind V.P.				
	c) Below H.P & In Front of VP d) Below H.P & Behind V.P.				
viii)	Which size of lead is used in Engineering Graphics/Drawing?				
	a) 0.5 mm b) 0.7 mm c) 0.9 mm d)1 mm				
ix)	Which of the following angle will be measure by set square without using protector?				
	a) 25^0 b) 35^0 c) 45^0 d) 100^0				
x)	Which of the following curve used on designing a profile of Gear Tooth?				
	a)Ellipse b)Parabola c)Spiral d)Cycloid				
xi)	In Aligned dimensioning system we have to write down the dimension				
	a)above the dimension line b) below the dimension line				
	c) in between the dimension line d)none of this				
xii)	Which of the following is true for 3 rd Angle Projection System				
	a) Observer – Object - Plane of Projection b) Observer – Plane of Projection – Object				
	c) Object – Observer – Plane of Projection d)None of this				
xiii)	Which type of line is used for Hidden Lines?				
	a) Continuous Thick (0.5mm) b) Dashed Thin c) Chain Thin d) Chain Thick				
xiv)	Which type of lead is used in Engineering Graphics/Drawing?				
	a) H & 2H b) HB c) B d) B & 2B				
xv)	Which of the following curve has eccentricity is greater than 1?				
	a)Ellipse b)Parabola c)Spiral d)Hyperbola				
xvi)	If any point is lies in 2 nd quadrant then its position will be represented by				
	a) Above H.P & In Front of VP b) Above H.P & Behind V.P.				
	c) Below H.P & In Front of VP d) Below H.P & Behind V.P.				
xvii)	In Projection of lines when summation of its true inclination is 90° thane which of the following is true?				
	a) $\alpha = \beta$ b) $\alpha \neq \beta$ c) $\alpha < \beta$ d) $\alpha > \beta$				

When we are cutting the cone Inclined to its base then the curve generate at the cutting surface

v)

~~;;;;)	The volue o	of Isomatria Saala is	times to the	a Normal coals			
xviii)	The value C	of isometric scale is	times to ti	e Normai scale			
	a)0.816	b) 1.5	c) 2	d) All of this			
xix)	What is the	Internal Angle of R	egular Pentagon?				
	a)72 ⁰	b) 120 ⁰	$c)108^{0}$	$d)60^{0}$			
xx)	Which of th	Which of the following curve has eccentricity is less than 1?					
	a)Ellipse	b)Parabola	c)Spiral	d)Hyperbola			
Q.2 A)	Define the	following term (An	ny five out of seven q	uestions)	(05)		
(1)	Eccentricity	=		,	, ,		
(2)	•	tive Fraction					
(3)	Cycloid						
(4)	Conic Curv	ves					
(5)		ic Projection					
(6)	Tetrahedro	-					
(7)			iary Horizontal Plane				
Q.2 B)	•		ve out of seven quest	ons)	(05)		
(1)		•	-	(III)	(02)		
(2)	Draw the symbol of 1 st Angle Projection System. What do you mean by Auxiliary Vertical Plane?						
(3)	What do you mean by Solid of Revolution?						
(4)	What do you mean by solid of Revolution? What do you mean by lateral surface of the solid?						
(5)	Draw the circle of 70 mm diameter in isometric view.						
(6)	Enlist the instrument used in Engineering Drawing/Graphics.						
(7)		ymbol of 3 rd Angle F					
Q.3	-	-	ut of six questions)		(10)		
(1)	Write down the application of Conic Curves?						
(2)				base circle diameter 50mm and 80mm high rest	ing on		
()	H.P. on its		8	6	8		
(3)	Explain Iso	metric Scale.					
(4)	Why we are	e not using 2 nd and 4	th Angle Projection Sy	rstem.			
(5)	Write down	n the application of I	involute & Cycloidal (Curves?			
(6)	Write Down	n the difference bety	ween Uni-Directional	and Aligned Dimensioning System.			
Q.4	Long Questions (Any three out of four questions)						
(1)	Draw an Ellipse whose major and minor axis are 120mm and 90mm apart.						
(2)	A straight line AB is 60 mm long. It is inclined to H.P. and V.P. by an angle of 30° and 45° respectively. Point A is 15 mm above H.P. and 15 mm in front V.P. Draw projections of straight line AB.						
(3)				mm is resting on HP on its base. It is cut by a P. Draw the development of lateral surfaces.	n AIP		
(4)	A square pl	late of side 50 mm is	s held on a corner on I	I.P. Plate is inclined to the H.P. such that the plan	ı is		

seen as rhombus with a diagonal of 40 mm. Determine the angle it makes with H.P. The other diagonal is

inclined at 45° V.P. Draw the projection of plate.