Code: DF Time: 3 F		JUNE 2008	Subject: ENG	INEERING DRAWING Max. Marks: 100	
	10015			William William IV	
(b) Se re: (c) Ou re: 2. De: on qui 3. All	B and C. ctions A and B ar spectively. at of remaining 5 quired to answer etach this sheet fr ly on Pages 1 & 2 testions are to be dimensions given smatching dimense BIS Code: SP: 4	om the question pape . Attach it to the ma answered on the main a are in mm. Use suit	rry 20 marks and 3 ks each) in Section (er and write answer in drawing sheet. R n drawing sheet. table values of any n	2 marks C students are s on this sheet emaining missing and	
			ROLL NO		
		SECTION A (Co	ompulsory)		
		to the main drawing a Question No. 1 In T			
Q.1 V	Vrite the correct o	or best alternative in	the following :	$(10\times2=20)$	
a.	a. The visible edge of an object is shown by:				
	(A) Thick dotted (C) Thin dotted	* *	ontinuous line ntinuous line		
b.	b. Cotter joint is used for joining two rods to transmit				
	(A) axial force(C) normal force	(B) tangenti (D) friction			

CENTRE STAMP

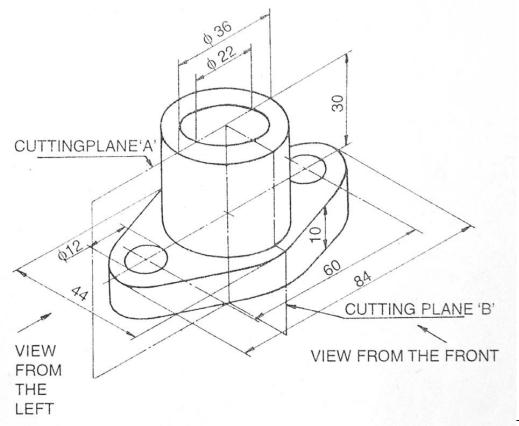
c.	For showing	angle projection ====	symbol is used	
) Ist) IIIrd	(B) IInd (D) IVth		
d.	When a line is parallel t	to both H.P. & V.P. it has	trace	
	(A) vertical(C) profile	(B) horizontal(D) no		
e.	If 'd' is the diameter of rivet in mm and 't' the thickness of the plate also in m then the equation for calculating the diameter of rivet is			
	(A) $d = t/6$ (C) $d = 6t$	(B) $d = 6\sqrt{t}$ (D) $d = 12 t$		
f.	If a circular lamina is inclined to V.P. and perpendicular to H.P., its top view be			
	(A) circle(C) line	(B) ellipse(D) triangle		
g.	is used as a foundation bolt.			
	(A) Hexagonal headed I(B) Square bolt(C) Simmond's bolt(D) Lewis bolt	oolt		
h.	If the development of a square prism is a square of 100 mm side, then the len of the base side will be			
	(A) 25 mm (C) 75 mm	(B) 50 mm (D) 100 mm		
i.	The double ordinate through the focus of a conic is called			
	(A) Vertex(C) Latus Rectum	(B) Directrix(D) Tangent		

- j. If 10 mm represents 1m on a map, the representative fraction is
 - **(A)** 1:100
 - **(B)** 1:1000
 - **(C)** 100:1
 - **(D)** 1000:1

SECTION B (Compulsory)

- Q.2 The object shown in Fig.1 is cut by two cutting planes 'A' and 'B' as shown. Draw the following views of this object
 - (a) Half sectional front view with left half in section
 - (b) Half sectional side view with right half in section
 - (c) Top view

(12+10+10=32)



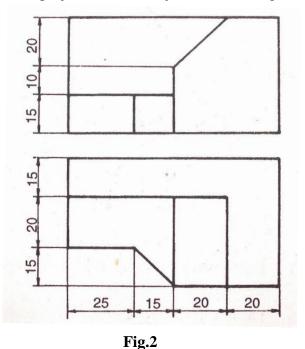
SECTION C

Answer any THREE Questions. Each question carries 16 marks.

Q.3 A straight line CD is inclined at 30° to HP and 45° to VP. The end C is 10 mm above HP and 20 mm infront of VP. The line is 90 mm long. Draw the projections of the line and show its top view and front view. (16)

- Q.4 Draw the involute of a circle of 30 mm diameter and draw a normal and tangent at a point on the involute curve 60mm from the centre of the circle. (16)
- Q.5 A cone having a base diameter 60 mm and height 65 mm is resting with its base on HP. A section plane perpendicular to VP and inclined at an angle of 40° to HP cuts the cone such that the section plane is passing through a point on the axis at a height of 30 mm above the base. Draw the projections of the cut solid showing the sectional top view. (16)

Q.6 Draw the isometric projection of the object shown in Fig.2. (16)



Q.7 Draw sectional front view of a Socket and Spigot Joint for 25 mm diameter rods keeping the axes of the rods horizontal. Show the dimensions. (16)