AMIETE - ET (OLD SCHEME)

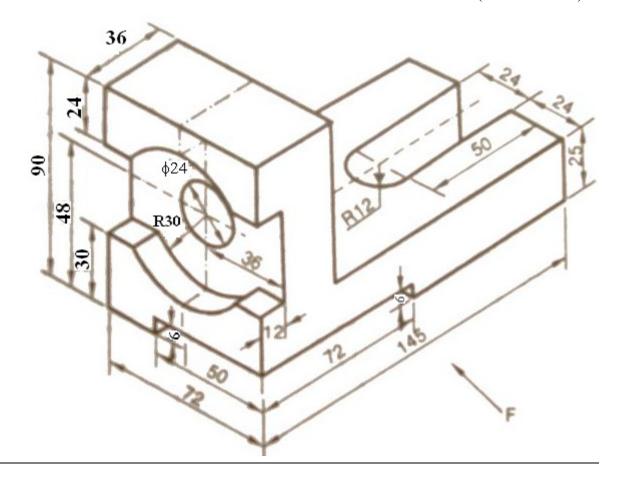
Code: AE02		Subject: EN	GINEERING GRAPHICS
Time: 4 Hours	DECEMBE	ER 2010	Max. Marks: 100
and C. (b) Sections A a (c) Out of remains required to a 2. Detach this a on Pages 1 & be answered 3. All dimensions mismatching	EVEN questions in a nd B are compulsor; ining 5 questions (of answer any 3 questions heet from the questions at the land the main drawing given are in mm. I dimensions.	Il and these are arranged y and carry 20 marks and 16 marks each) in Section ons. ion paper and write answering sheet. Remarks sheet. Use suitable values of any lid drawings and do not rule.	32 marks respectively. a C students are ers on this sheet only aining questions are to y missing and
	Answer this on quest	ompulsory) – Marks – 20 ion paper itself and annex	
	rawing sheet. ne correct or best alt <u>QUESTION</u>	ternative in the following:	(2 x 10 = 20) <u>ANSWER HERE</u>
a. If the Ho will be	zontal Trace (HT) of a line lies 24 mm above X-Y line, then its position		-Y line, then its position
	m infront of V.P. m behind V.P.	(B) 24 mm above V.P.(D) 24 mm below V.P.	
b Triangula	on method is used for developing		-
(A) Pyran (C) Prism		(B) Cylinders (D) Cube	
CENTRE ST	ГАМР	G.	gnature of Suptd/invigilator

c.	When the shafts are slightly misaligned then most suitable coupling to connect them is		
	(A) Rigid coupling(C) Oldham coupling	(B) flexible coupling (D) None	
d.	Rollers in a roller bearing are held in equally spaced position using		
	(A) Outer race(C) cage	(B) Inner race (D) rollers	
e.	Splines are used for mounting a gear on shaft		
	(A) True	(B) False	
f	A hole in the cap of a plummer block on the top helps to escape excess lubricant		
	(A)) True	(B) False	
g	The plain scales are constructed for reading lengths to the accuracy of		
	(A) 1 consecutive unit(C) 3 consecutive units	(B) 2 consecutive units (D) 4 consecutive units	
h	The point at which the conic cuts the axis is known as		
	(A) Base rim(C) centre of the base	(B) end generator (D) Vertex	
i.	Profiles used for spur gears are		
	(A) Epicycloid profiles(C) Thread profiles	(B) Hypocycloid profiles (D) Involute profiles	
j	f a circular plane is inclined to V.P. and perpendicular to H.P., its top view is a		
	(A) circle (C) line	(B) ellipse (D) none	

SECTION B (Compulsory)

- Q.2 Fig. shows the details of a machine component. Draw the following views to full scale size:
 - (i) Front view looking from the direction of 'F'
 - (ii) Left Side view
 - (iii) Top view

(12+08+12=32)



 ${\bf SECTION} \ {\bf C} \\ {\bf Answer \ any \ THREE \ Questions. \ Each \ question \ carries \ 16 \ marks.} \\$

- Q.3 A straight line AB 50 mm long is resting with its end A in both HP and VP. Line is inclined at 40° to both the reference planes. Draw the projection of the line. (16)
- Q.4 A tetrahedron of side 60 mm is standing with its base edge on HP in tilted position. The solid is tilted in such a way that the apex is 25 mm above HP. Draw the projections of tetrahedron in this tilted position. Measure the height of the solid.

 (16)

- Q.5 A regular hexagonal lamina of side 20 mm, rest on one of its sides on HP such that it is perpendicular to VP and inclined to HP at 45°. Its corner nearest to the VP is 15 mm away from VP. Draw its projections in first angle. (16)
- Q.6 A cone of base diameter 30 mm and height 40mm is resting vertically on a square block of base side 40 mm and height 15mm. Square block is resting with its base on HP. Axis of both solids coincides. Draw the isometric projection of the combined solids. (16)
- Q.7 a. Construct a diagonal scale to read meter, decimeter and centimeter. Mark a distance of 6 meter, 5 decimeter and 3centimeter on it. Take scale 1:60 (8)
 - b. Two plates of thickness t= 12 mm and diameter of rivet hole 'D' are required to be joined with a double rivet butt joint (zig-zag riveting). Draw its top and front view.

 (8)