## AMIETE - ET (OLD SCHEME)

Code: AE02 Time: 4 Hours Subject: ENGINEERING GRAPHI Max. Marks: 100

NOTE:

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- **1.** (a) There are SEVEN questions in all and these are arranged in three Sections A, B and C.
  - (b) Sections A and B are compulsory and carry 20 marks and 32 marks respectively.
  - (c) Out of remaining 5 questions (of 16 marks each) in Section C students are required to answer any 3 questions.

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- 2. Detach this sheet from the question paper and write answers on this sheet only on Pages 1 & 2. Attach it to the main drawing sheet. Remaining questions are to be answered on the main drawing sheet.
- 3. All dimensions given are in mm. Use suitable values of any missing and mismatching dimensions.
- 4. Use BIS Code: SP: 46-1988 for all drawings and do not rub off construction lines.

Roll No \_\_\_\_

**SECTION A (Compulsory) – Marks – 20** 

Note : - Answer this on question paper itself and annex with the drawing sheet.

Q1.	Choose the correct or best alternative in the following:	$(2 \times 10 = 20)$
	<b>QUESTIONS</b>	<b>ANSWER HERE</b>

a If a pentagonal plane is inclined to H.P. and perpendicular to V.P., its front view is a

(A) line(B) regular pentagon(C) irregular pentagon(D) none

b The hidden edge of an object is shown by:

(A) Thin continuous line(B) Thin dotted line(C) Thick continuous line(D) Thick dotted line

c. A square pyramid is cut by a section plane parallel to its base, the sectioned surface will be

(A) Square(B) Rectangle(C) Triangle(D) Trapezium

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d.	When a line is inclined to be	oth H.P. & V.P. it hastrace	118
	(A) vertical	( <b>B</b> ) horizontal	Th.
	( <b>C</b> ) profile	( <b>D</b> ) all the three	2
e.	The feather keys are	keys.	
	(A) parallel	(B) perpendicular	
	(C) inclined	( <b>D</b> ) none	
f.	If the development of a squa of the base side will be	re prism is a square of 300 mm side, then t	he length
	(A) 25 mm	( <b>B</b> ) 50 mm	
	( <b>C</b> ) 75 mm	( <b>D</b> ) 100 mm	
g.	The double ordinate through	the focus of a conic is called	
	(A) Vertex	(B) Directrix	
	(C) Latus Rectum	(D) Tangent	
h. If 10 mm actual size represents 1m on a map, the representative fraction is			
	( <b>A</b> ) 1:100	<b>(B)</b> 1:1000	
	( <b>C</b> ) 100:1	<b>(D)</b> 1000:1	
i.	is a curve traced by a point in a straight line which rolls		
	without slippage along a cir	cle or polygon.	
	(A) Epicycloids	(B) Hypocycloid	
	(C) Cycloid	( <b>D</b> ) Involute	
j.	When a section plane is inclined to the axis of a cone and is parallel to any one of the generators, the shape of the section is.		
	(A) Parabola	( <b>B</b> ) Ellipse	
	(C) Circle	( <b>D</b> ) Hyperbola	
	SECT	ON B (Compulsory)	

- (i) Half sectional front view with left half in section as cut by plane A
- (ii) Half sectional side view with right half in section as cut by plane B

(iii) Top view

(12+10+10=32)



## SECTION C Answer any THREE Questions. Each question carries 16 marks.

- Q.3 A line AB 60 mm long measures 50 mm in its front view and 40 mm in top view. End A of the line is in HP and B is in VP. Draw the projection of the line and show its traces. (16)
- Q.4 Draw an involute of a circle of diameter 25 mm. (16)
- Q.5 a. Construct a diagonal scale using a scale of 10 centimeter to 6 meter to read meter, decimeter and centimeter. Show a distance of 6.53 meters on it.
  (8)
  - b. Draw the top and front view of a double rivet butt joint (zig-zag riveting) for thickness of plate 't' and diameter of rivet hole 'D'. (8)
- 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 proportionate dimensions.

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