JUNE 2008

Code: AE02 Time: 4 Hours		Subject: ENGINEERING GRAPHICS Max. Marks: 100
NOTE	Ε:	
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.
- 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.
- All dimensions given are in mm. Use suitable values of any missing and **3.** 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: **20**)

 $(2 \times 10 =$

HERE

OUESTIONS

ANSWER

				
a	In the portion of the object between cutting plane and the object assumed to be removed	servei		
	is assumed to be removed	(A)		
	plan			
	(B) elevation			
	(C) profile view			
	(D) sectional view			
b	When the measurements are made in two units scales are used			
		(\mathbf{A})		
	diagonal			

diagonal

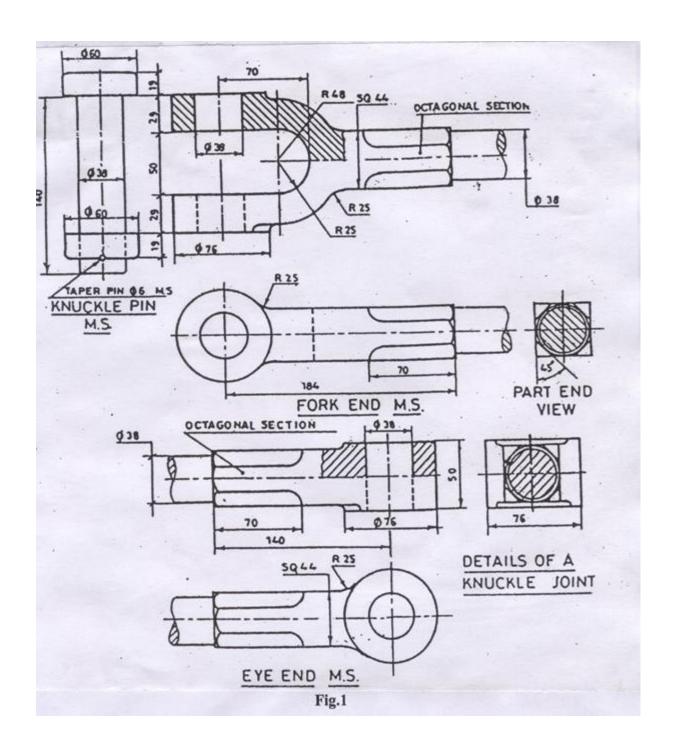
- (**B**) plain
- (C) vernier

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c	If both plan and elevation of an object lies below X-Y line, then the object is in quadrant
	(A) I
	(B) II
	(C) III
	(D) IV
d	The traces of planes are
	(A) points
	(B)
	lines
	(C) planes
	(D) none
e	Parallel line method is used for developing
C	(A) cones (B)
	pyramids
	(C) prisms (D) spheres
f	Line of intersection between a square pyramid and a pentagonal prism consists of
	(A) curved lines only
	(B) straight lines only
	(C) combination of both curved and straight lines
	(D) depends on position and size
g	A sunk taper key is having surface tapered

(D) comparative

	 (A) top (B) bottom (C) side 			
h	(D) all is a cylindrical rod threaded at both the ends and left plain			
••	in the middle. (A) bolt (B) nut (C) stud (D) washer			
i	The other name for Hooke's joint is (A) Oldhams coupling (B) Universal coupling (C) Compression coupling (D) Claw coupling			
j	is a curve traced by a point in a straight line which rolls without slipping along a polygon. (A) cycloid (B) epicycloids (C) hypocycloid (D) involute			
SECTION B (Compulsory)				
	g. 1 shows the details of a knuckle joint. Draw the following views of the assembly half the full size:			
(i) (ii)	Front view top half in section Side view from right side = 32) (20+12)			

Q.2



SECTION C

Answer any THREE Questions. Each question carries 16 marks.

Q.3		A straight line AB, 95 of VP. The other end I projections of the line.	_	above HP a		n infront o		aw the
Q.4		Construct a diagonal so long enough to measure m, 6 dm and 5 cm.						
Q.5		A sphere of 60 mm dia pyramid. The base of t 40 mm side and height the combined solid.	he frustum is	s square of 6	50 mm sid	le, top sur	face is squ	uare of
Q.6		Construct the curve g slipping along a circle on the generated curve	of diameter (-	_			
Q.7	a.	Draw a hexagonal headed bolt. Take the nominal diameter as 24 mm and shank length 100 mm. (4)						
	b.	dimensions: (i) Snap	rivet heads		e nominal	diameter	24 mm	. Give
		head		(6)				
	c.	(i) Basic Size (ii) Maximum size (iv) Upper deviation						
		(v) Tolerance	Lower		iation 6)			(vi)