Л	IN	\mathbf{F}	20	በብ	7
· J. L	ДΝ	Ŀ	~	vv	1

Subject: ENGINEERING DRAWING

Time: 3 Hours Max. Marks: 100

NOTE:

- 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.
- 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)

Note: 1. Attach this sheet to the main drawing sheet.

2. Write Answers To Question No. 1 In This Sheet Only.

Q.1 A.	Write the correct or best alternative in the following:	(10×
	2=20)	

a.	A point is 'x' distance infront of V.P. and 'y' distance below H.P.,	then the point
	is in quadrant	

(A) I (B) II

	(C) III	(D) IV		
b.	A plain scale is re	epresenting 1 cm = 0.5 Km, the	R.F. is	-
	(A) 5000:1 (C) 10:5000	(B) 1:50000 (D) 5000:10		
	(C) 10.3000	(D) 3000.10		
CENT	RE STAMP			
		S	ianaturo of Su	ıptd / invigilator
		3	ngnature or Su	iptu / irivigilator
		_		
c.	If a vertical pyran	mid is cut by a horizontal section	n plane the result	ing cut solid is
			,	
			(A	A)
	prism			
	(B) pyramid			
	(C) frustum(D) cuboid			
d.		ted by the locus of a point on the		of a circle which
	rolls, without slipp	ping along a fixed straight line i	s known as	

		(A) cyc (C) troc			(B) ellipse(D) involute				
	e.	The pe	rmissible	variation	of a size of a	part is called _			
	f.	The lea		e from a	rivet hole cen	tre to the neare	est edge	of the plate	e is
		(A) ma (C) bac	rgin ck pitch		(B) pitch (D) diagonal	pitch			
							g.		
	Aj	(A) tria (B) rec (C) circ (D) squ	angle tangle cular	is mostly	used for	rod end	s.		
	h.		hold near a wall		ing, which sup	ports on overl	nung sha	aft, which is	s parallel
		(B) wa (C) wa	all hanger Il bearing all bracket ne of these						
Q1. B.	St	tate Tru	e or False	:					
							i.		

(A) True	
(A) True	
(B) False	
j. By increasing the number of rows of rivets, the riveted joints become stronge	r.
(A) True	
(B) False	

SECTION B (Compulsory)

- Q.2 A machine block is shown in Fig.1 on page 4. Using 1:1 scale draw the following views giving nine important dimensions:
 - (i) Front view looking from the direction 'X'.
 - (ii) Left side view.
 - (iii) Top view.

(11+10+11=32)

SECTION C

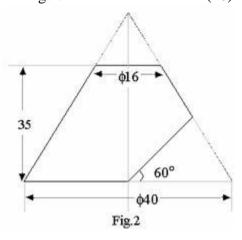
Answer any THREE Questions. Each question carries 16 marks.

- Q.3 A distance of 2 mm on a part of an object is represented by a line of 6 mm on the drawing. Find the R.F. and construct a diagonal scale using that R.F. showing

 (1/10) th of mm, mm, cm and long enough to measure 5 cm. Mark on it the distance 37.8 mm and 40.4 mm.

 (16)
- Q.4 The top view of a 75 mm long line AB measures 65 mm, while the length of its front view is 50 mm. Its one end 'A' is in the H.P. and 12 mm in front of V.P. Draw the projections of AB and determine its inclination with H.P. and V.P.

 (16)
- Q.5 A hexagonal prism, base 40 mm side and height 40 mm. Draw its projections when it is resting on one of its corners on the H.P. with its axis inclined at 60° to the H.P. and two of its faces parallel to V.P. (16)
- Q.6 Draw the development of the surface of the object made out of cone shown in Fig.2. (16)



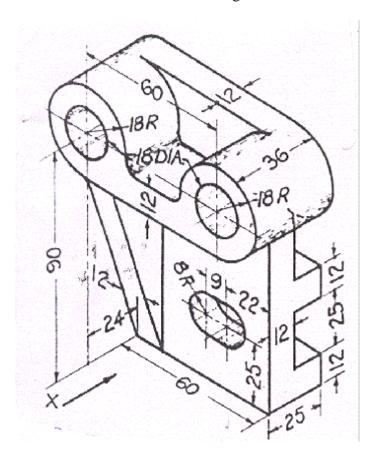


Fig.1