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Code:	DE03
Time:	3 Hours

Subject: ENGINEERING DR

DECEMBER 2010

Max. Mark

 $(10 \times 2 = 20)$

NOTE:

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- StudentBounts.com 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.
- Use BIS Code: SP: 46-1988 for all drawings and do not rub off construction 4. 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 Write the correct or best alternative in the following:

- a. The Actual size of a component Refer to
 - (A) Drawing size
 - (**B**) Design size
 - (C) Size after manufacturing
 - (**D**) Basic size.

b. Which amongst the following is not a journal bearing?

(A) Pivot Bearing	(B) Bush Bearing
(C) Hongon Booming	(D) Dlummar Dlaal

(C) Hanger Bearing (**D**) Plummer Block

CENTRE STAMP

Signature of Suptd / invigilator

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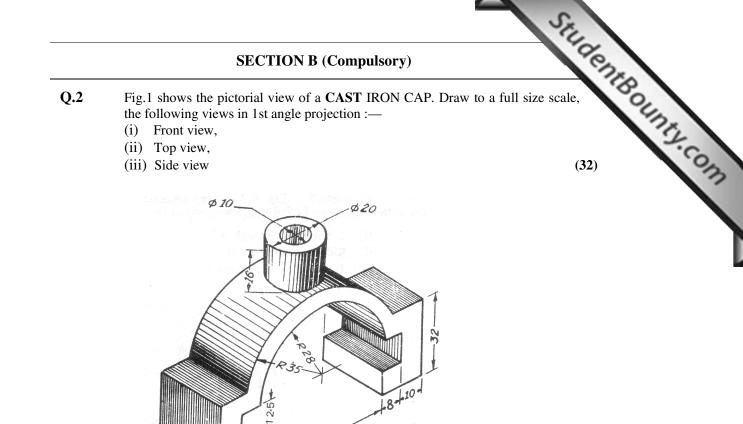
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	(A) Socket joint(C) Hydraulic pipe jo	(B) Expansion joint(D) Spigot & Socket joint	
d.	For buckling in a plan connecting rod is treat	e perpendicular to the plane of ted as a strut with	high pressure nt motion (about y-axis) , the
	(A) Both ends hinged		
	(B) Both ends fixed		
	(\mathbf{C}) one end fixed & \mathbf{C}	•	
	(D) one end fixed & o	other end free.	
e.	In lettering, the spacing between words is equal to		
	(A) Height of letters		
	(\mathbf{B}) Width of letters		
	(C) Twice the height(D) Twice the width of		
f.	When the section plan elements, the section of	te makes the same angle with th obtained is a	e axis of the cone as the
	(A) Hyperbola	(B) Circle	
	(C) Parabola	(D) Ellipse	
g. The curve generated by a fixed point on the circumference of a rolling or generating circle which rolls without slipping along the inside of a base or directing circle is			
	(A) Epicycloid	(B) Hypocycloid	
	(C) Cycloid	(D) Trochoid	
h.	If x is the thickness of the arrowhead then its length will be equal to		
	(A) 2x	(B) 2.5x	
	(C) 3x	(D) 3.5x	
i.	In A_o designation, the BIS is	trimmed size (length x width) of	of the drawing sheet as per
	(A) 1230×880	(B) 1189×880	
	(0) 1100 011	(D) 1230×841	
	(C) 1189×841		russes is usually
j.		or structural work such as roof the	
j.		or structural work such as roof the (B) Snap head	
j.	The rivet head used for		

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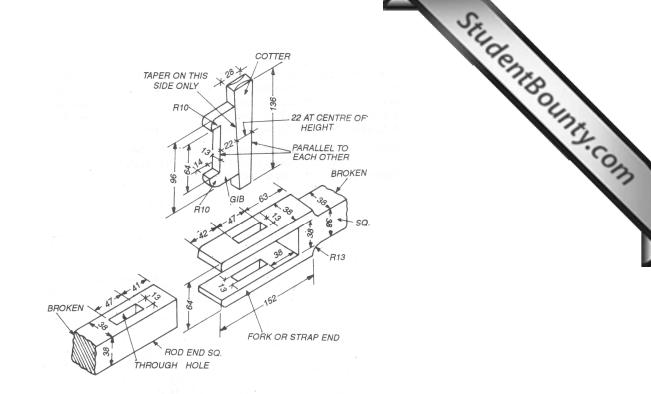


CAST IRON CAP Fig.1

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

Q.3 A circular plate of negligible thickness 40 mm diameter, having its plane vertical and inclined at 30° to the V.P. Its centre is 25 mm above the H.P. and 15 mm infront of V.P. Draw its projections and also show the traces. (16) **O.4** A right regular pentagonal pyramid, edge of base 20 mm and height 40 mm is resting on its base in HP with axis perpendicular to HP and parallel to VP. Two of its base edges are equally inclined to the VP. The pyramid is cut by an AIP(Auxiliary Inclined Plane) at an angle of 45° leaving direct (vertical) distance taken from base on the edge of the corner equal to 7 mm. Draw the front view, top view and development of its lateral surfaces. (16) Q.5 Draw form or profile of Knuckle thread along with their proportion having pitch, P(6)a. b. Construct a diagonal scale to measure 1/25 and 1/5 of centimetre. The length of scale is 10 cm. Show on it, length 8.42 cm. only. The R.F. of scale is 1/1. (10)Q.6 The detail of parts of Gib and Cotter joint are given below in Fig.2. Assemble the parts together and draw (16) (i) Front view upper half in section (ii) Side view or (iii) Top view. Adopt suitable scale. Use first angle projection system DiDIETE - ET (OLD SCHEME) DE03 / DEC = 20102

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Detail of Fork End, Rod End, Gib and Cotter in Isometric Projection

Fig.2

- Q.7 Pictorial views of two shaft ends, sleeve or muff (box) and a gib head key is shown in Fig.3. Assemble the parts together and draw (16)
 - (i) Front views showing muff upper half in section
 - (ii) Side view. Adopt first angle projection and suitable scale.

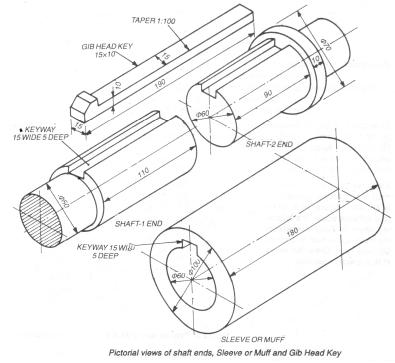


Fig.3

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