ಸಂಕೇತ ಸಂಖ್ಯೆ: 72

CCE RR

Code No.: 72

ವಿಷಯ: ಇಂಜಿನಿಯರಿಂಗ್ ಡ್ರಾಯಿಂಗ್

Subject: ENGINEERING DRAWING

(ಹೊಸ ಪಠ್ಯಕ್ರಮ / New Syllabus) (ಪುನರಾವರ್ತಿತ ಶಾಲಾ ಅಭ್ಯರ್ಥಿ/ Regular Repeater)

General Instructions:

- i) The Question-cum-Answer Booklet consists of 5 objective and subjective types of questions.
- ii) Space has been provided against each objective type question. You have to choose the correct choice and write the complete answer in the space provided.
- iii) For subjective type questions enough space for each question has been provided. You have to answer the questions in the space.
- iv) Follow the instructions given against both the objective and subjective types of questions.
- v) Candidate should not write the answer with pencil. Answers written in pencil will not be evaluated (Except Graphs, Diagrams & Maps).
- vi) In case of Multiple Choice, Fill in the blanks and Matching questions, scratching / rewriting / marking is not permitted, thereby rendering to disqualification for evaluation.
- vii) For reading the questions 15 minutes of extra time has been provided.
- viii) Do not write anything in the space provided in the right side margin.

	Inst	ructio	ons:	i)	Answer <i>all</i> the questions.		
				ii)	Retain the constructional details.		
				iii)	All dimensions are in mm.		
				iv)	Use first angle projection only.		
				v)	Missing dimensions may be assumed.		
				vi)	All drawings should be drawn in drawing sheet only.		
1.	a)	Fill in the blanks with the correct figure/word(s) by selecting from the choices given in the brackets: $5 \times 1 =$					
		i)	In orthogra	_	projections the visual rays are assumed		
			(diverge j		station point, converge from station point,		
		ii)	Objects th		re symmetric can be shown effectively		
					(full section, half section, quarter section)		
		iii)	The front vie	ew of a	an object is projected on the		
					(horizontal plane, vertical plane, profile plane)		
		iv)			cone when cut by a plane parallel to its ve obtained is a/an		
					(ellipse, parabola, circle)		
		v)	The length o	of scale	e with R.F. = $\frac{1}{40}$ to measure up to 6 metre will		
			be	•••••	••••••		

(15 cm, 10 cm, 12 cm)

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	b)	Ma	tch the following:		5 × 1 =	: 5				
			Group A		Group B					
		i)	Knuckle thread	a)	used for transmission of power					
		ii)	Acme thread	b)	used in the screw of a bench vice					
		iii)	Square thread	c)	used in the two railway carriage					
					coupling					
		iv)	Buttress thread	d)	used in the lead screw of a lathe					
		v)	B.A. thread	e)	used for small instrument screws					
				f)	used for gas steam or water pipes.					
2.	a)	Draw three circles inside a hexagon of 40 mm side such that e								
	circle touches two sides of the hexagon and two other circle									
	b)	Print the following in single stroke inclined capital letters of height								
		18 mm with 6 : 5 ratio.								
				'BRAZ	ZING'					
3.	a)	Con	struct an ellipse ha	ving	major axis 100 mm and minor ax	kis				
		65 mm by concentric circle method.								
	b)	Two points A and B are 110 mm apart. Point C is 90 mm and 60 mm								
	from A and B respectively. Draw a parabola passing through									
		Α, Ι	B and C.			5				
4.	a)	Configure (draw) lines of length of 100 mm used for								
		i) Visible outlines								
		ii) Dimension lines								
		iii)	Hidden lines.			3				

b) The pictorial view of an object is shown in Figure No. 1. Draw the following orthographic views and mark the dimensions:

- (i) Front view Looking in the direction of arrow 'X'
- (ii) Top view Looking in the direction of arrow 'Y'
- (iii) Side view Looking in the direction of arrow 'Z'.

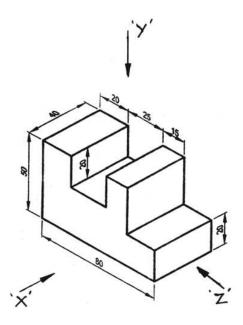
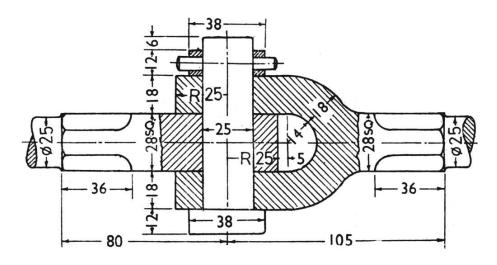


Figure No. 1

5. Figure No. 2 shows the sectional elevation of a pin joint or knuckle joint. Draw the sectional elevation in full size (1:1 size).



PIN JOINT OR KNUCKLE JOINT

Figure No. 2

RR-0321