

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.

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i)

*Instructions*:

Answer *all* 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 i	in the blanks	with 1	the correct figure/word(s) by selecting from the
	choi	ces given in t	he bra	ackets: $5 \times 1 = 5$
	i)	In orthogra	phic	projections the visual rays are assumed
		to	•••••	
		( diverge f be parallel )	rom	station point, converge from station point,
	ii)	Objects tha	at a	re symmetric can be shown effectively
		using		
				(full section, half section, quarter section)
	iii)	The front vie	w of a	an object is projected on the
		Co		( horizontal plane, vertical plane, profile plane)
	iv)	A right circ	cular	cone when cut by a plane parallel to its
		generator, th	ie cur	ve obtained is a/an
				( ellipse, parabola, circle )
	v)	The length o	f 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)	Match the following:		$5 \times 1 = 5$	
	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)	a) Draw three circles inside a hexagon of 40 mm side such th			
	circle touches two sides	s of the	hexagon and two other circles. 5	
			***	
b)	Print the following in	single	stroke inclined capital letters of height	
	18 mm with 6:5 ratio.		5	
		'BRA	ZING'	
3. a)	Construct an ellipse l	major axis 100 mm and minor axis		
	65 mm by concentric ci	ircle m	ethod. 5	
b)	Two points $A$ and $B$ ar	mm apart. Point C is 90 mm and 60 mm		
	from $A$ and $B$ respecti	ively. I	Draw a parabola passing through points	
	A, 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	
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		'		



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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'.

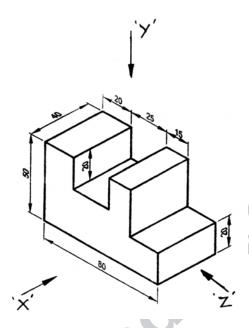
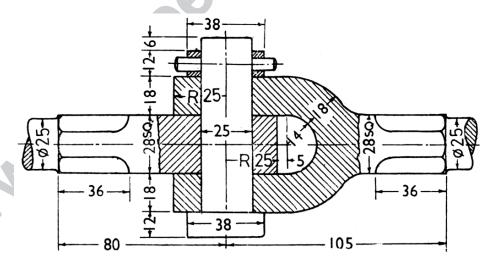


Figure No. 1

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

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