

CCE RR

ಕರ್ನಾಟಕ ಪ್ರೌಢ ಶಿಕ್ಷಣ ಪರೀಕ್ಷಾ ಮಂಡಳಿ, ಮಲ್ಲೇಶ್ವರಂ, ಬೆಂಗಳೂರು – 560 003

**KARNATAKA SECONDARY EDUCATION EXAMINATION BOARD, MALLESWARAM,
BANGALORE – 560 003**

ಎಸ್.ಎಸ್.ಎಲ್.ಸಿ. ಪರೀಕ್ಷೆ, ಜೂನ್ – 2017

S. S. L. C. EXAMINATION, JUNE, 2017

ಮಾದರಿ ಉತ್ತರಗಳು

MODEL ANSWERS

ದಿನಾಂಕ : 17. 06. 2017]

ಸಂಕೇತ ಸಂಖ್ಯೆ : **72**

Date : 17. 06. 2017]

CODE NO. : 72

ವಿಷಯ : ಇಂಜಿನಿಯರಿಂಗ್ ಡ್ರಾಯಿಂಗ್

Subject : ENGINEERING DRAWING

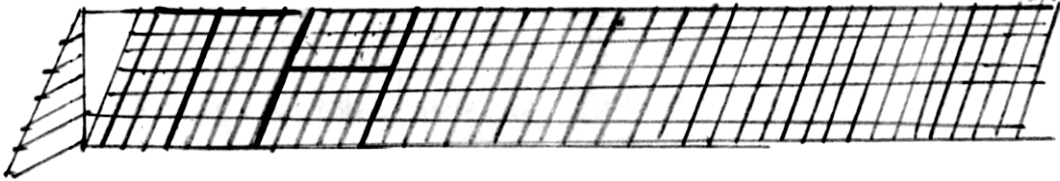
(ಹೊಸ ಪಠ್ಯಕ್ರಮ / New Syllabus)

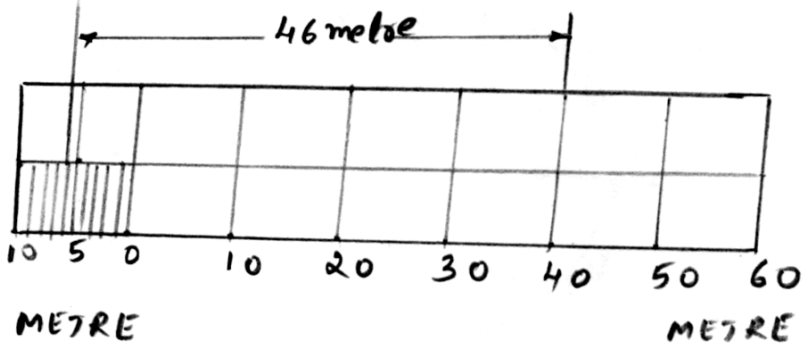
(ಪುನರಾವರ್ತಿತ ಶಾಲಾ ಅಭ್ಯರ್ಥಿ / Regular Repeater)

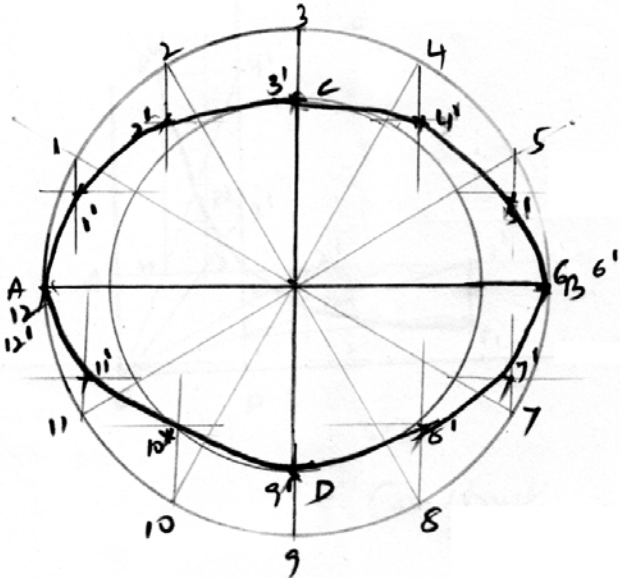
[ಗರಿಷ್ಠ ಅಂಕಗಳು : 50

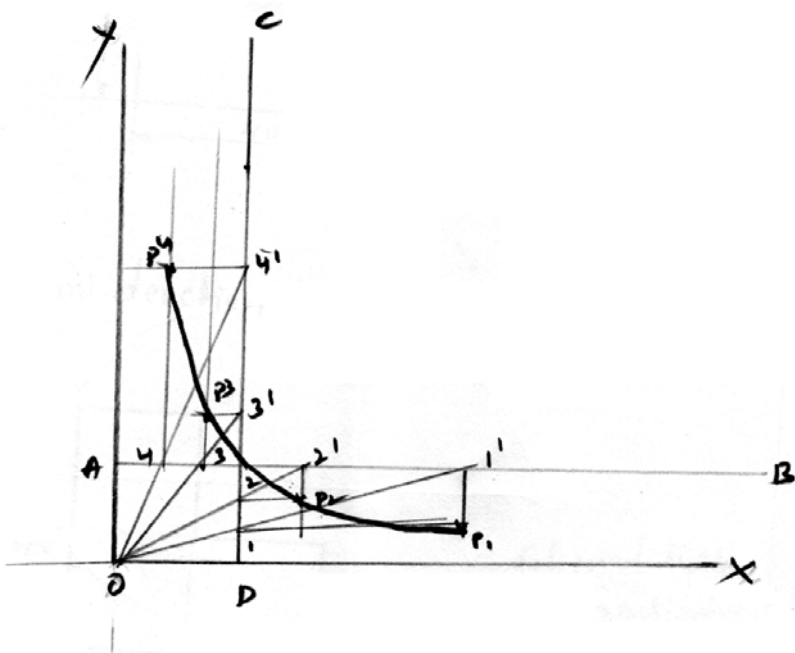
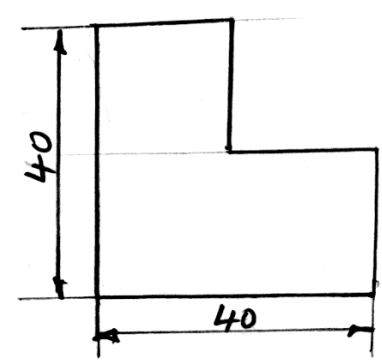
[Max. Marks : 50

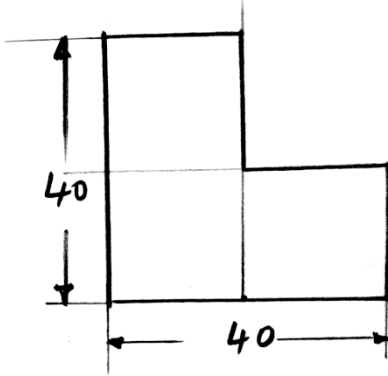
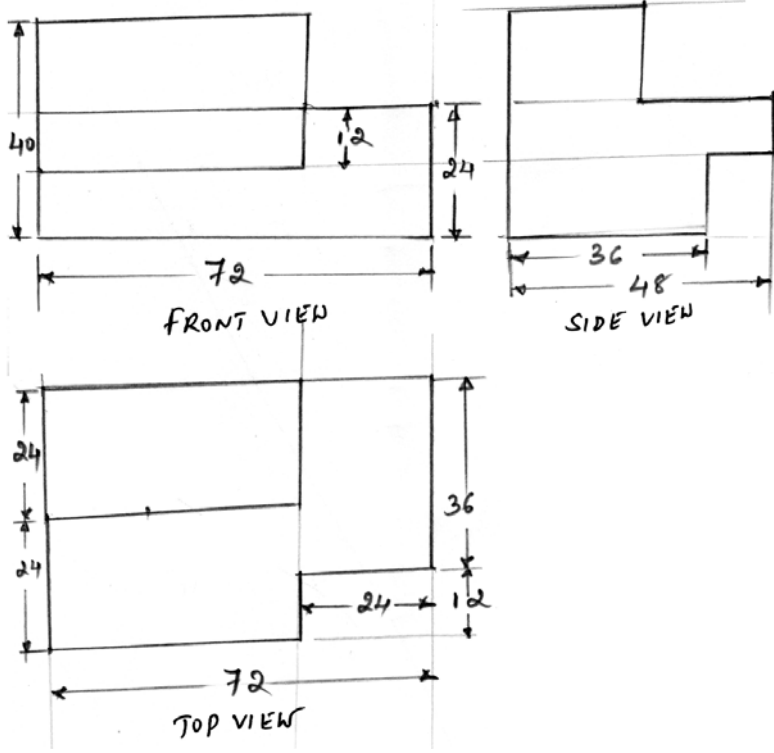
Qn. Nos.	Sub. Qn.No.	Value Points	Total
1.	a)	i) 3 : 1 ii) Bottom view iii) plain scale iv) parabola v) flank.	5 × 1 = 5

Qn. Nos.	Sub. Qn.No.	Value Points	Total
	b)	i) d) welded joints ii) c) cotter joints iii) e) transmission of power iv) b) lead screw of a lathe v) f) coupler of railway carriages	5 × 1 = 5
2.	a)	<p style="text-align: center;">THREADS</p> <p style="text-align: center;">INCLINED LETTERS = 75° to the right side</p>  <p>T = 6 : 6</p> <p>H = 6 : 5</p> <p>R = 6 : 5</p> <p>E = 6 : 5</p> <p>A = 6 : 6</p> <p>D = 6 : 5</p> <p>S = 6 : 5</p> <p style="text-align: right;">Construction of graph 1</p> <p style="text-align: right;">Letter writing 4</p> <hr style="width: 10%; margin-left: auto; margin-right: 0;"/> <p style="text-align: right;">5</p>	

Qn. Nos.	Sub. Qn.No.	Value Points	Total
	b)	<p style="text-align: center;">PLAIN SCALE</p> <p>R.F. = $\frac{1}{500}$</p> <p>M.M. distance = 70 metre</p> <p>Mark a distance of 46 metre on scale</p> <p>Length of the scale = R.F. × M.M. distance</p> $= \frac{1}{500} \times 70 \times 100$ $= 14 \text{ cm}$  <p style="text-align: right;">Find L.S. 1 Construction of scale 3 Marking distance 1 <hr style="width: 10%; margin-left: auto; margin-right: 0;"/>5</p>	

Qn. Nos.	Sub. Qn.No.	Value Points	Total
3.	a)	<p style="text-align: center;">CONCENTRIC CIRCLE METHOD</p> <p style="text-align: center;">Major axis & minor axis</p> <p style="text-align: center;">ratio = 3 : 2</p> <p style="text-align: center;">Major axis = 135 mm</p> <p style="text-align: center;">Minor axis = ?</p> <p style="text-align: center;">Minor axis = 3 : 2 = 135 : x</p> $3x = 135 \times 2$ $x = \frac{135 \times 2}{3} = \frac{270}{3} = 90 \text{ m}$ <p style="text-align: center;">AB = Major axis = 135 mm</p> <p style="text-align: center;">CD = Minor axis = 90 mm</p> <div style="text-align: center;">  </div> <p style="text-align: right;">Construction of ellipse</p> <p style="text-align: right;">Dimensioning</p>	<p style="text-align: center;">4</p> <p style="text-align: center;">1</p> <hr style="width: 20%; margin: auto;"/> <p style="text-align: center;">5</p>

Qn. Nos.	Sub. Qn.No.	Value Points	Total
	b)	<p>Point <i>P</i> at a distance of 20 mm and 15 mm from the two asymptotes</p>  <p>Construction of rectangular hyperbola Dimensioning</p>	<p>4 <u>1</u> 5</p>
4.	a)	<p>Aligned system of dimensioning</p> 	

Qn. Nos.	Sub. Qn.No.	Value Points	Total
		<p style="text-align: center;">Unidirectional system of dimensioning</p>  <p style="text-align: center;">Aligned system of dimensioning</p> <p style="text-align: center;">Unidirectional system of dimensioning</p>	$1\frac{1}{2}$ $1\frac{1}{2}$ <hr style="width: 50%; margin: auto;"/> 3
	b)	 <p style="text-align: right;">Front view 2</p> <p style="text-align: right;">Top view 2</p> <p style="text-align: right;">Side view 2</p> <p style="text-align: right;">Dimensioning 1</p>	2 2 2 1

			7
Qn. Nos.	Sub. Qn.No.	Value Points	Total
5.		<p>Draw the Oldham's coupling to full size 1 : 1 size</p> <p style="text-align: right;">Copy the sketch to full size Dimensioning</p>	<p style="text-align: right;">8 <u>2</u> 10</p>