

Sl. No. : OP

ಒಟ್ಟು ಪ್ರಶ್ನೆಗಳ ಸಂಖ್ಯೆ : 5]

CCE RR

[ಒಟ್ಟು ಮುದ್ರಿತ ಪುಟಗಳ ಸಂಖ್ಯೆ : 8

Total No. of Questions : 5]

[Total No. of Printed Pages : 8

ಸಂಕೇತ ಸಂಖ್ಯೆ : **72**

Code No. : 72

ಇಲ್ಲಿಂದ ಕತ್ತರಿಸಿ

ವಿಷಯ : ಇಂಜಿನಿಯರಿಂಗ್ ಡ್ರಾಯಿಂಗ್

Subject : ENGINEERING DRAWING

(ಹೊಸ ಪಠ್ಯಕ್ರಮ / New Syllabus)

(ಪುನರಾವರ್ತಿತ ಶಾಲಾ ಅಭ್ಯರ್ಥಿ / Regular Repeater)

ದಿನಾಂಕ : 17. 06. 2017]

[Date : 17. 06. 2017

ಸಮಯ : ಮಧ್ಯಾಹ್ನ-2-00 ರಿಂದ 5-15 ರವರೆಗೆ] [Time : 2-00 P.M. to 5-15 P.M.

ಗರಿಷ್ಠ ಅಂಕಗಳು : 50]

[Max. Marks : 50

General Instructions to the Candidate :

1. This Question Paper consists of 5 objective and subjective types of questions.
2. This question paper has been sealed by reverse jacket. You have to cut on the right side to open the paper at the time of commencement of the examination. Check whether all the pages of the question paper are intact.
3. Follow the instructions given against both the objective and subjective types of questions.
4. Figures in the right hand margin indicate maximum marks.
5. The maximum time to answer the paper is given at the top of the question paper. It includes 15 minutes for reading the question paper.

RR-XXIII-8020

[Turn over

TEAR HERE TO OPEN THE QUESTION PAPER

ಪ್ರಶ್ನೆ-ಪತ್ರಿಕೆಯನ್ನು ತೆರೆಯಲು ಇಲ್ಲಿ ಕತ್ತರಿಸಿ

Tear here

- Instructions :*
- i) 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 in the blanks with the correct figure/word(s) by selecting from the choices given in the brackets :

5 × 1 = 5

- i) The length to height ratio of a closed filled arrow head is

(1 : 3, 3 : 1, 1 : 2)

- ii) is not a principal view.

(*Front view, Top view, Bottom view*)

- iii) The scale used for measuring the two systems of units is

(*plain scale, diagonal scale, vernier scale*)

iv) When a bullet is shot in air the path traversed by the bullet is called

(*ellipse, parabola, hyperbola*)

v) The surface between the crest and the root is called

(*flank, angle, depth*)

b) Match the following :

5 × 1 = 5

Group A

Group B

- | | |
|-------------------------|----------------------------------|
| i) Permanent fastening | a) screw of a bench vice |
| ii) Temporary fastening | b) lead screw of a lathe |
| iii) Square thread | c) cotter joints |
| iv) Acme thread | d) welded joints |
| v) Knuckle thread | e) transmission of power |
| | f) coupler of railway carriages. |

2. a) Print the following in single stroke inclined capital letters of height 18 mm with 6 : 5 ratio. 5

'THREADS'

- b) Construct a plain scale of 1 : 500 to read a single metre and long enough to measure up to 70 metre. Mark on it a distance of 46 metre. 5
3. a) An ellipse has the major axis and the minor axis in the ratio of 3 : 2. Draw the ellipse when the major axis is 135 mm by concentric circle method. 5
- b) Draw a rectangular hyperbola, given a point 'P' on it a distance of 20 mm and 15 mm from the two asymptotes. 5
4. a) Differentiate between aligned and unidirectional system of dimensioning with a neat sketch. 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'.

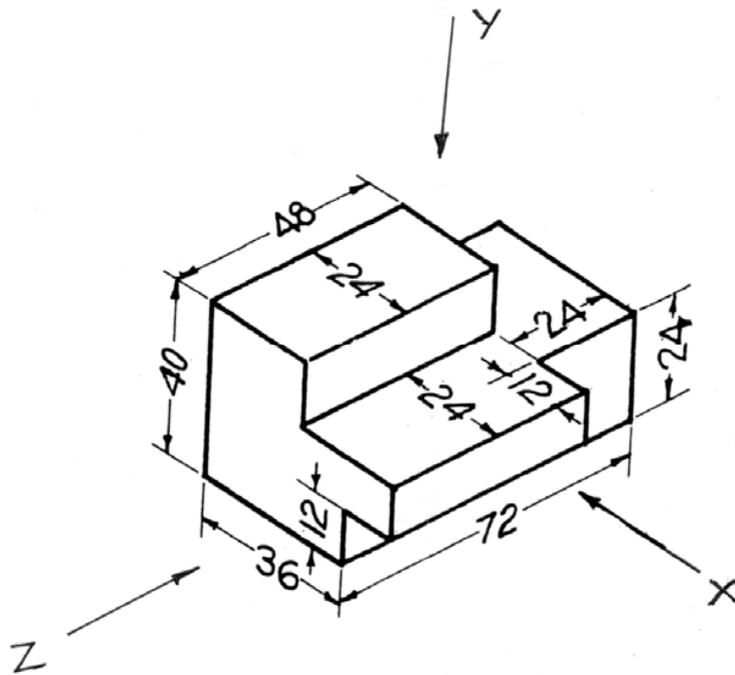
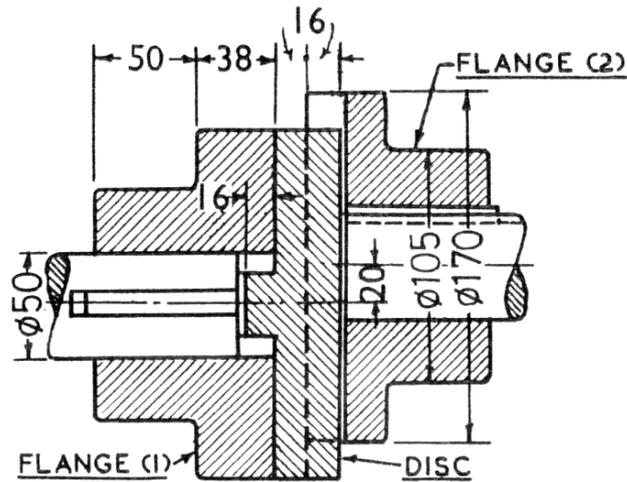


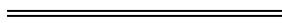
Figure No. 1

5. Figure No. 2 shows the sectional elevation of a Oldham's coupling. Draw the sectional elevation of an Oldham's coupling to full size (1 : 1 size). 10



OLDHAM'S COUPLING

Figure No. 2



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