

(ENGLISH)

[TIME ALLOWED—3 HOURS]

(MARKS—100)

ENGINEERING DRAWING AND CIVIL ENGINEERING DRAWING (THEORY-I)*Instructions.—* (1) Figure to the right hand indicate *full marks*.(2) Assume suitable data if *required*.(3) All questions are *compulsory*.**Marks**1. (a) Fill in the blanks (any *five*) :—

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(i) is the part of the drawing board on which the stock / head of tee square slides.

(a) Ebony Edge (b) Batten (c) Strip (d) Bottom

(ii) The 2H pencil is than 2B pencil.

(a) Harder (b) Softer (c) Similar to (d) None of these

(iii) Isometric view is

(a) 2 dimensional view (b) 3 dimensional view

(c) 2 and 3 dimensional view (d) None of these

(iv) Section line in engineering drawing are generally drawn at

(a) 55° (b) 68° (c) 45° (d) 15°

(v) Inclind or Italic lettering are generally written in degree.

(a) 70° (b) 80° (c) 75° (d) 105°

(vi) Prespective Drawing is type of drawing.

(a) Orthographic (b) Pictorial

(c) Third angle (d) None of these.

(b) Match the pairs :—

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‘ A ’ Group**‘ B ’ Group**

(i) F. S. I.

(a) This is the usable are of room at any floor level.

(ii) Built-up area

(b) This is the usable covered area of building at any floor level.

(iii) Carpet area

(c) Floor space index

(iv) Floor area

(d) It control the density of population.

(v) Floor Area Ratio

(e) Is the cover area measured at the floor level of basement or any level.

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- (c) State *true* or *false* (any *five*) :— 5
- (i) Set squares are use for drawing all straight lines except the horizontal lines.
 - (ii) The scale is used to transfer the true or relative dimension of an object to the drawing.
 - (iii) Out line or principal line drawn as thick continuous line.
 - (iv) The plan which showing the dimension and shape of boundary which is issued by the city survey office called site plan.
 - (v) East direction shown on site plan.
 - (vi) Area of loft note be included in the plinth area.
- (d) State the long form of the following (any *five*) :— 5
- (i) W. C. (ii) V (iii) F. A. R.
 - (iv) E. W. C. (v) A. C. (vi) C. I.
2. Answer the following (any *two*) :— 16
- (a) Sketch the following symbol.—
- (i) W. C. (ii) Ceilling Fan (iii) Glass,
 - (iv) Steel Section (v) Wood (vi) Concrete,
 - (vii) U. C. R. Masonary, (viii) Brick Masonary.
- (b) What are the basic unit required while planning the following structre.—
- (i) Residential Bungalow (ii) Bank
 - (iii) Village Panchayat Office (iv) Bus stations
- (c) Enlist the drawing instrument with their use.
- (d) What are the necessity of free hand sketching ?
3. Answer the following (any *two*) :— 16
- (a) State various command use in Auto Cad.
 - (b) Enlist the different type of lines with there use and figure in drawing.
 - (c) Which rule should be used while writting the lettering ?
 - (d) What are the importance of Engineering drawing ?
4. Answer the following (any *two*) :— 16
- (a) Draw the figure of column footing section.
 - (b) Write the short note on prespective.
 - (c) Write the difference between 1st and 3rd angle method of orthographic projection.

5. Answer the following (any *two*) :— 16

- (a) Explain about Site Plan and Location Plan.
- (b) Enlist the different type of fixtures and fastenings of door and window with their use.
- (c) What are the method and principles of dimensioning.

6. Answer the following (any *two*) :— 16

Draw free hand line plan only with dimension without scale :

- (a) Primary school 1st standard to 4th standard.
 - (b) Residential Bungalow plan (Ground floor).
 - (c) Shopping Centre.
 - (d) Vegetable Market.
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