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Total No. of Questions : 5] [Total No. of Printed Pages : 4

EGS-294

B.E. 3rd Semester (CGPA) Civil Engg.
(Zero Sem.) Examination–2018
BUILDING DESIGN AND DRAWING
Paper–CE–306

Time : 3 Hours] [Maximum Marks : 60

Note : - ***Attempt all questions.***

- *All questions carry equal marks.*

1. (a) How would you provide foundations on a black cotton soil Explain with sketch. 6

   (b) Differentiate between the following : 6

   (i) Combined footing and continuous footing

   (ii) Shallow foundation and deep foundation.

   or

   (a) What are the requirements of good stair? 6

(b) Design and draw layout of staircase to be built between two floors 3.00 m apart. Size of staircase is 3 m × 5 m. Draw a dimensional plan and sections. 6

2. (a) What are the principles of planning ? 6

(b) Write short notes on : 6

(i) D.P.C. (ii) Mezzanine floor (iii) F.A.R.

or

Write Imporant regulations according to IS:1256 building bylaws to provide model planning for the muncipalities having population between 50,000 to 2,00,000. 12

3. (a) What are the characteristics of an ideal fire resisting material ? 6

(b) Enumerate the requirements of good acoustical material ? 6

or

(a) Write short notes on : 6

(i) Water closet (ii) Floor trap (iii) Manhole

(b) Why is ventilation required ? 6

4. (a) Write various types of windows, sketch any two. 6

(b) Explain English bond and flemish bond with the help of neat sketches. 6

or

Draw plan and section of a small residential building consists of two rooms with front Verandah and attached latrine (assume all data suitably). 12

5. (a) Write short notes on : 6

(i) One point and two point perspective

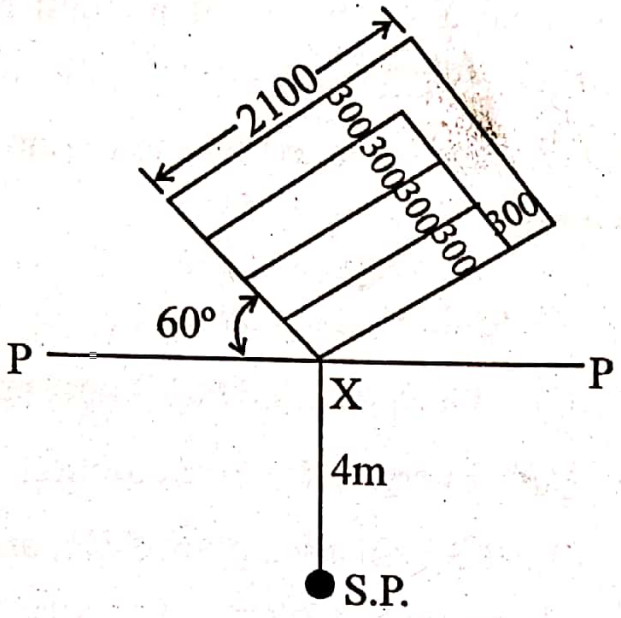
(ii) Energy efficient building

(b) What is vanishing point (V.P.) and purpose of perspective ? 6

or

Following sketch shows a plan of step blocks shorted side of the step block is inclined at an angle 60° to the picture plane and touches the same point

'X', the observer is at a distance of 4 m from 'X'. Assuming eye level at 1.5 m above G.L. Draw the perspective view of step block. Retain all rays. 12



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