Roll No…….. **Total No. of Printed Pages: 01**
Total No. of Questions: [09]

B. Tech Civil Engg. (Semester – 3rd)
COMPUTER AIDED CIVIL ENGINEERING DRAWING
Subject Code: BCIES1301
Paper ID: 18110711

Time: 03 Hours **Maximum Marks: 60**

Instruction for candidates:

1. Section A is compulsory. It consists of 10 parts of two marks each.
2. Section B consist of 5 questions of 5 marks each. The student has to attempt any 4 questions out of it.
3. Section C consist of 3 questions of 10 marks each. The student has to attempt any 2 questions.

Section – A **(2 marks each)**

Q1. Attempt the following:
a) When do you choose 'PLINE' command?
b) What is the scale ratio of full-size scales?
c) What is 'Diagonal Scale'? When it is preferred/used?
d) Give sign convention/Symbols of Plumbing (Any TWO).
e) Give sign convention/Symbols (Any TWO) related to Electrical.
f) What is full form of BIM?
g) Define 'Building Line'.
h) What do you understand by 'Squint Junction'?
i) Define 'Cone of Vision'.
j) Explain in brief 'Offset Command'.

Section – B **(5 marks each)**

Q2. A room having volume of 2000m^3 is shown as 200 cm^3 on a drawing sheet. What is RF? If RF is to be doubled, what will be volume on drawing sheet?
Q3. Proper Roof drainage is to be ensured for proper disposal of water. Show typical roof drainage plan for a room having size 20' x 12'.
Q4. Differentiate between English bond and Flemish bond.
Q5. Give classification of Perspective projections. Mention the practical application of any TWO of them.
Q6. Write a note on co-ordinate systems.

Section – C **(10 marks each)**

Q7. It is proposed to construct a residential building (G+3) RCC framed structure with at least the following requirements: (a) Drawing Hall (b) Living Room (c) Master Bedroom (d) Guest Room (e) Study Room (f) Children's Bed Room (g) Kitchen cum Dining .
Provide Passage, staircase, lift, verandah and other provisions, you deem fit. Show Second Floor Plan.
Q8. Differentiate between 'Corner wall' and 'Cross wall'. Show sketches for the case of (a) Double Flemish Bond (b) English Bond.
Q9. Describe in brief the following: (a) Architecture plan (b) Principles of Isometrics (c) Drawing Aids (d) Rebar drawings