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B.TECH.

THEORY EXAMINATION (SEM-VIII) 2016-17 COMPUTER AIDED DESIGN

Time: 3 Hours Max. Marks: 100

Note: Be precise in your answer. In case of numerical problem assume data wherever not provided.

SECTION-A

1 Explain the following:

 $(10 \times 2 = 20)$

- a) Use of cad in civil engg
- Use of environmental engg softwares
- c) 2D modelling softwares
- d) Concept of 3D and 4D modelling
- e) Soft computing
- Two structural design softwares
- g) Limitation of softwares
- Earthquake resistant design softwares
- High rise construction and computational tools
- j) Modular programming.

SECTION-B

2 Attempt any five of the following:

 $(10 \times 5 = 50)$

- a) What is neural networks and its application in civil engg
- Define Expert system, their development in geotechnical engg.
- How you will make plan and elevation of a 1500 sqft covering area.
- Is there any role of softwares in making plumbing requirement in an appartment.
- What are advantages of Computer Aided design over conventional design.
- f) Discuss concept of 2D/3D/4D modeling of building.
- g) How you will analyze a rcc beam in any structural engg softwares.
- Discuss concept of geotechnical softwares for deep foundations.

SECTION-C

Attempt any two of the following:

 $(15 \times 2 = 30)$

- Discuss Use of software packages in the area of water logged areas.
- Design rcc dome of intz water tank for 250 klitres.take staging height 22m.sbc 12kn/sqm. Assume other details.
- a) Is there any role of Environmental fields software in drainage plan of a city?
 - b) How you will model a 2 story 2 bay rcc frame structure.

