

B.TECH.**THEORY EXAMINATION (SEM–VIII) 2018-19****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 :** (10×2=20)
- Use of cad in civil engg
 - Use of environmental engg softwares
 - 2D modelling softwares
 - Concept of 3D and 4D modelling
 - Soft computing
 - Two structural design softwares
 - Limitation of softwares
 - Earthquake resistant design softwares
 - High rise construction and computational tools
 - Modular programming.

SECTION-B

- 2 Attempt any **five** of the following : (10×5=50)
- 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 apartment.
 - What are advantages of Computer Aided design over conventional design.
 - Discuss concept of 2D/3D/4D modeling of building.
 - 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 : (15×2=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.
 - Is there any role of Environmental fields software in drainage plan of a city?
 - How you will model a 2 story 2 bay rcc frame structure.