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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 :** **(10×2=20)**

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

SECTION-B

2 Attempt any **five** of the following : **(10×5=50)**

a) What is neural networks and its application in civil engg
b) Define Expert system, their development in geotechnical engg.
c) How you will make plan and elevation of a 1500 sqft covering area.
d) Is there any role of softwares in making plumbing requirement in an appartment.
e) 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.
h) Discuss concept of geotechnical softwares for deep foundations .

SECTION-C

Attempt any **two** of the following : **(15×2=30)**

3. Discuss Use of software packages in the area of water logged areas.
4. Design rcc dome of intz water tank for 250 klitres.take staging height 22m.sbc 12kn/sqm. Assume other details.
5. 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.

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