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BARCH
(SEM VIII) THEORY EXAMINATION 2017-18
ADVANCED COMPUTERS

Time: 3 Hours

Total Marks: 100

Notes:

- Attempt all sections.
- Assume missing data, wherever necessary.

SECTION-A

Q.1. Attempt all parts. All parts carry equal marks. Write answer of each part in short.

(2X10=20)

- a) What is computer modelling?
- b) What is tool?
- c) What is virtual design?
- d) What do you mean by natural system?
- e) What is the role of RAM?
- f) What is Graphics?
- g) What do you understand by CUI?
- h) What do you understand by 3D?
- i) What do you mean by programming?
- j) What is computers limitation?

SECTION-B

Q.2. Attempt **any five** questions from this section.

(10X5=50)

- a) Explain rhinoceros 3D tool for designing.
- b) Explain structural system modeling technique.
- c) Explain human limitations in design with computers.
- d) Explain fusion of space by computers.
- e) Explain role of natural forms in design.
- f) Explain genetic algorithm.
- g) Describe any one work of Neri Oxman..
- h) Discuss the role of materials in defining the structural requirement of natural forms.

SECTION-C

Q.3. Attempt **any two** questions from this section.

(15X2=30)

- a) Discuss the Natural system approach for producing parametric design with suitable example.
- b) Explain Bio-mimicry. Explain with two examples of computer modelling in this field.
- c) What is high-end computer system? Describe modeling of spatial properties using high-end computer systems.