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**BARCH**  
**(SEM VIII) THEORY EXAMINATION 2017-18**  
**UNIVERSAL DESIGN**

*Time: 3 Hours**Total Marks: 100***Notes:**

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

**SECTION – A****1. Attempt as instructed****(10 X 2= 20)**

- a. Who coined the term Universal Design?
- b. Universal design has how many principles?
- c. Define Anthropometry.
- d. Define biomechanics.
- e. What do you understand by perception?
- f. What do you understand by cognition?
- g. Name three basic disabilities.
- h. What do you understand by psychological needs?
- i. Why do we use the word paradox?
- j. What does the term “Design for All” stand for?

**SECTION – B****2. Attempt any five questions. All questions carry equal marks.****(5X 10=50)**

- a. What is barrier free design? Explain with proper example
- b. Explain the principal of equal status with proper example.
- c. What do you understand by inclusive design? Explain with proper example
- d. What is the basic concept of universal design? Explain.
- e. What challenges do architects face while implementing universal design?
- f. Discuss standards for universal design.
- g. Low floor buses are the example of universal design. Is this true? Why?
- h. Give five examples from your daily life which show adoption of universal design.

**SECTION – C****3. Attempt any two questions. All questions carry equal marks.****(2X 15 = 30)**

- a. As an architect you need to design a multistoried (G+2) bus parking area. How will your design be different from normal design if you implement universal design principles? Explain with the help of sketches.
- b. Explain the eight goals of universal design in brief. Support each goal with proper example.
- c. Explain the principles of universal design in brief. Support each principle with proper example.