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Total Number of Pages: 02

B.Arch
EAR853

8th Semester Regular / Back Examination 2016-17

BARRIER FREE ENVIRONMENT

BRANCH: B.ARCH

Time: 3 Hours

Max Marks: 70

Q.CODE: Z458

**Answer Question No.1 which is compulsory and any five from the rest.
The figures in the right hand margin indicate marks.**

- Q1 Answer the following questions: (2 x 10)**
- a) Inclusive Design
 - b) Guiding Blocks
 - c) Audio Alert
 - d) Accessible pathway
 - e) Mobility devices
 - f) Tactile sign
 - g) Drop down rail
 - h) Handrails
 - i) Bevel edge
 - j) PWD Act, 1995
- Q2 a) Explain different types of disabilities. (2)**
- b) Explain the principles of Universal design. (8)**
- Q3 a) Explain the planning principles and design considerations for designing different types of street furnitures. (5)**
- b) Explain the design considerations taken to facilitate the safe and independent crossing of disabled people. (5)**
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- Q4 a) How can we design an effective signage system considering different types of user group in a public space. (5)**
- b) Explain the design considerations taken while designing an accessible ramp. (5)**

Q5 a) Explain design considerations for an educational building in making it barrier free. **(5)**

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b) State the design considerations of accessibility in a restaurant for disabled person. **(5)**

Q6 a) Explain the design considerations for vertical modes of movement to be used by specially abled people. **(5)**

b) What are the standards for accessible car parking spaces designated for the use of persons with a disability? **(5)**

Q7 Explain in detail about the design considerations for a Hospital to make it barrier free. **(10)**

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Q8 Write short answer on any TWO: (5 x 2)

a) Obstructions

b) Accessible lift

c) Doors & windows

d) Kerb at footpath

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