

**BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI  
(END SEMESTER EXAMINATION)**

**CLASS: B.ARCH  
BRANCH: ARCHITECTURE**

**SEMESTER : V  
SESSION : MO/18**

**SUBJECT: AR5303 SITE PLANNING AND LANDSCAPE ARCHITECTURE**  
**TIME: 3.00 HOURS**

**FULL MARKS: 60**

**INSTRUCTIONS:**

1. The question paper contains 7 questions each of 12 marks and total 84 marks.
  2. Candidates may attempt any 5 questions maximum of 60 marks.
  3. The missing data, if any, may be assumed suitably.
  4. Before attempting the question paper, be sure that you have got the correct question paper.
  5. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall.
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- Q.1(a) Explain the following- [2]  
i) Lentic and Lotic Ecosystem  
ii) Biome
- Q.1(b) Discuss what could be the contribution of Landscape Architects towards rejuvenation of our existing Indian cities? [4]
- Q.1(c) Elaborate on the concepts and ideologies of any two noted Landscape Architects whom you admire. Give some examples and explain at least one project of each. [6]
- Q.2(a) Briefly explain about the various principles of design of Landscape Architecture. [2]
- Q.2(b) Explain the importance of site analysis for a site before undertaking construction. Enumerate and explain in detail about the parameters to be considered in site planning and site analysis for landscape design? [4]
- Q.2(c) Explain and distinguish between various types of Pavement Design. Explain in detail with sketches about salient features of at least two pavement materials in Pavement Design. [6]
- Q.3(a) What do you understand by "Surface Drainage" in Landscape Design? List the types. [2]
- Q.3(b) Name the four elements of climate and units of measurement of these elements, which have the strongest influence on Thermal Comfort. Suggest landscape design intervention to improve thermal comfort taking the elements into consideration. [4]
- Q.3(c) Explain why Exterior Lighting is important in Landscaping Design. Distinguish with detailed explanation about the various types of Exterior Lighting. [6]
- Q.4(a) What is Garden Furniture? List them and explain with neat sketches compare Natural and Man-made landscape elements with neat sketches. [2]
- Q.4(b) Explain the following types with respect to Principles of Landscape Architecture, Name two trees of each type by their botanical names: [4]  
i) Spreading tree.  
ii) Ornamental tree.
- Q.4(c) Distinguish between "Interior Landscaping" and "Exterior Landscaping". Explain in detail about at least two types of Interior and Exterior Landscaping. [6]
- Q.5(a) What is the role of "Signage" in Landscape Design? Elaborate upon the guidelines of Signage Design. [2]
- Q.5(b) Elaborate upon the salient feature of the French Type and Mughal Type Gardens. Distinguish between both in detail. [4]
- Q.5(c) Explain the mythology about Chinese Gardens. Explain in detail about the salient features of Chinese Garden. Give examples. [6]
- Q.6(a) Explain about "Balinese Gardens"? Underline it's salient features. [2]
- Q.6(b) Give a detailed flowchart of the processes of EIA explaining about each step. [4]
- Q.6(c) Explain about 'Terrace Garden'. With proper sketches esp. sections, explain and distinguish between various types of Terrace Gardens. [6]
- Q.7(a) Distinguish between "Green Space" and "Grey Space". Give examples explaining each. [2]
- Q.7(b) What do you understand by Safety and Security in neighborhoods? List some of the ways of attaining Safety and Security in neighborhoods. [4]
- Q.7(c) Design a 10 m x 15 m courtyard for college canteen which is being upgraded to have an additional outdoor dining. Provide a conceptual scheme for the same in terms of plan and section and give details of Softscape and Hardscape materials used. Also design the furniture and mention the materials used for it. [6]