

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

**CLASS: BARCH
BRANCH: ARCH.**

**SEMESTER : VIII
SESSION : SP/19**

SUBJECT: AR8305 ADVANCED LANDSCAPING

TIME: 3 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) What is Landscape Perception? | [2] |
| Q.1(b) Explain the importance of perception for outdoor area design. | [4] |
| Q.1(c) Explain prospect refuge theory in landscape design. | [6] |
| Q.2(a) Explain soil formation. | [2] |
| Q.2(b) List the major and minor soil groups of India. | [4] |
| Q.2(c) Discuss critically the nature, extent of occurrence and important properties of any two major soil groups of India. | [6] |
| Q.3(a) What are the factors which affects the quality and quantity of storm water? | [2] |
| Q.3(b) Explain rainfall abstraction/ Hydrological abstraction. | [4] |
| Q.3(c) Draw a flow chart of surface drainage for a residential township. | [6] |
| Q.4(a) Explain different types of plant material. | [2] |
| Q.4(b) Give common and botanical name of four trees with sketch of their foliage pattern. | [4] |
| Q.4(c) Explain the plant material used as a resource for planning and designing. | [6] |
| Q.5(a) What is RoW (right of way)? Explain with a cross-section sketch. | [2] |
| Q.5(b) What are the aesthetical and functional aspects of water features? | [4] |
| Q.5(c) Discuss in detail garden fountain with sketches. | [6] |
| Q.6(a) Explain "Urban Forest". | [2] |
| Q.6(b) What is watershed management? | [4] |
| Q.6(c) Explain in detail concept of 'waste' as a pollutant. The details of urban waste management with different rules and regulations available to manage the waste. | [6] |
| Q.7(a) What is "urban heat island effect"? | [2] |
| Q.7(b) Explain the importance of soil mapping for sustainable development. | [4] |
| Q.7(c) Topography can influence issues such as runoff and flooding hazards as well as availability of land for development. Explain it with examples. | [6] |

:::24/04/2019 M:::