

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

CLASS: BARCH
BRANCH: ARCH

SEMESTER : V/ADD
SESSION : MO/19

SUBJECT: AR5303 SITE PLANNING AND LANDSCAPE ARCHITECTURE

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) Write a brief note about the environmental benefits of **Landscaping Design**. [2]
- Q.1(b) What do you understand by an “**Accentuation**” and “**Focalization**”? How does a Landscape Architect achieve them? [4]
- Q.1(c) Explain about “**Elements of Design**” and “**Principles of Landscaping Design**”. Elaborate with the help of sketches. [6]
- Q.2(a) What do you understand by **Synthesis Stage** under **Site Planning Process**? What are the constituent elements of **Site Planning**? [2]
- Q.2(b) Discuss the relationship between **Site Planning** and **Site Analysis** process, also give the definition of **Site Analysis**. [4]
- Q.2(c) Elaborate upon **Water** as a design element with reference to **Principles of Landscaping Architecture**. Illustrate with help of sketches. [6]
- Q.3(a) Discuss about the relationship between **Site Topography** and **Site Engineering**. [2]
- Q.3(b) Write short notes on the following. [4]
- i) **Pergolas**
 - ii) **Informal garden**
 - iii) **Perennial Plants**
- Q.3(c) Discuss about different types of **Pavements**, also some examples according to materials. Provide sketches for the same. [6]
- Q.4(a) What do you understand by “**Retaining Walls**”? Explain briefly about its type. [2]
- Q.4(b) Elaborate upon the different steps of **EIA Process**? Explain in detail through a complete flow chart. [4]
- Q.4(c) What do you understand by “**Water Garden**” and “**Bog Gardens**”? Elaborate upon each type of Garden. [6]
- Q.5(a) Briefly define “**Butterfly Gardens**” and “**Rock Gardens**”. List some of their constituting features. [2]
- Q.5(b) Explain in detail about the differences between **Indian Mughal Gardens** and **Indian Vedic Garden**. [4]
- Q.5(c) What do you understand by **Site Drainage** and “**Stormwater Management**”? Explain about types of **Stormwater Management Process**. [6]
- Q.6(a) What does “**Contemporary Gardens**” mean? Explain about a type of **Contemporary Garden**. [2]
- Q.6(b) What do you understand by **Roof Garden**? Illustrate with sketches about **Roof Garden** of a residence located in **Composite Type of Climate**. [4]
- Q.6(c) Elaborate upon the difference between **Chinese Gardens** and **Japanese Gardens**. Support your answer with sketches for each type. [6]
- Q.7(a) Explain with sketches about ways of attaining **Bioclimatic Design** with help of Trees and Shrubs. [2]
- Q.7(b) What are the **Active Spaces** and **Passive Spaces** in Landscape Design? Explain by giving example of activities in both types. [4]
- Q.7(c) What are the various Design Guidelines for a **Streetscape Design**? [6]

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