

**M. Arch. Sem-I (Sustainable Architecture) (CBCS 2018 Course) :**

**WINTER - 2018**

**SUBJECT : SUSTAINABLE DEVELOPMENT**

**Day** : Thursday  
**Date** : 22/11/2018

**Time** 10.00 A.M. TO 12.00 NOON  
**Max. Marks** : 60

**W-2018-3477**

**N.B.**

- 1) All questions are **COMPULSORY**.
- 2) Figures to the **RIGHT** indicate **FULL** marks.
- 3) Answer to both the sections should be written in **SEPARATE** answer books.
- 4) Assume suitable data and draw figures if necessary.

**SECTION – I**

- Q.1** Write short notes on (**Any Two**) **(10)**
- a) Need for Sustainable Development
  - b) Water Act
  - c) EIA Characteristics
- Q.2** Describe the following terms in detail (**Any Two**) **(10)**
- a) Keystone species
  - b) Algae bioreactor
  - c) Carbon credits
- Q.3** Answer the following (**Any One**) **(10)**
- a) What is global warming? Discuss its causes & consequences in detail.
  - b) What are the threats to biodiversity? Suggest suitable measures to conserve biodiversity.

**SECTION - II**

- Q.4** Write short notes on (**Any Two**) **(10)**
- a) Sustainable Landscape Practices
  - b) Rainwater harvesting
  - c) Site characteristics for sustainable site planning
- Q.5** Describe the following terms in detail (**Any Two**) **(10)**
- a) Night sky pollution
  - b) Green Campus features
  - c) Sustainable Urban Drainage Systems (SUDS)
- Q.6** Answer the following (**Any One**) **(10)**
- a) What are the components of a smart city? Discuss them in detail with reference to smart city mission in India.
  - b) Explain the process of site development with reference to construction management.

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