

P P SAVANI UNIVERSITY

Fourth Semester of B. Arch. Examination

June 2022

SAAR2101 Climatology & Environmental Studies - II

06.06.2022, Monday Time: 09:00a.m. To 10:30a.m. Maximum Marks: 40

Instructions:

1. Numbers on the right side indicates full marks.
2. Make suitable assumptions and draw neat figures wherever required.

Q-1 Choose the correct answer

[05]

- (i) Those who have the freedom and rational capacity to be responsible for choices called,
a) Moral Duties b) Moral Agents c) Moral Standing
- (ii) Direct gain method is the simplest method where the space of the building is
a) Directly heated by sunlight b) Directly heated by insulators
c) Directly heated by warmer materials
- (iii) People living in rural areas are “_____” to the city, for the standard of living in urban areas.
a) Pushed b) Pulled c) Mitigate
- (iv) An earthquake is the shaking of the surface of the Earth resulting from a sudden release of energy in the Earth's _____
a) Hydrosphere b) Biosphere c) Lithosphere
- (v) It is designed to capture, store, manipulate, analyze, manage and present all types of spatial or geographical data.
a) G.I.S. b) E-cycling c) Data-bases

Q-2 True or False

[05]

- (i) Drought can have a substantial impact on the ecosystem and agriculture of the affected region and harm to the local economy.
- (ii) The word 'holocaust' comes from ancient Greek which means Nationalism.
- (iii) Active Solar Design uses outside energy and equipment such as electricity and solar panels to capture and utilize the energy of the sun.

(iv) Resettlement is the conversion of wasteland into land suitable for use of habitation or cultivation.

(v) Consumerism doesn't cause ecological imbalance.

Q – 3 Write short notes. (Any 2)

[10]

(i) What is Watershed management explain its Objectives.

(ii) Write short note on Causes of Ozone Depletion and Acid Rain.

(iii) Discuss problems involved with the enforcement of environmental legislation.

Q – 4 What is passive cooling system? Explain any three methods of passive cooling systems in detail, with sketches.

[8]

OR

Q – 4 Explain causes and effects of any one disaster, its management strategies with case study.

[8]

Q – 6 Write short notes on following (Any 3)

[12]

(i) Discuss various methods of wasteland reclamation.

(ii) What is green architecture? Explain with example and sketches.

(iii) Enlist adverse effects of Urbanization.

(iv) Explain any one traditional house form of particular climate zone, with appropriate sketches.