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Register No.:	

April 2019

<u>Time - Three hours</u> (Maximum Marks: 75)

- [N.B: (1) Q.No. 8 in PART A and Q.No. 16 in PART B are compulsory.

 Answer any FOUR questions from the remaining in each PART A and PART B
 - (2) Answer division (a) or division (b) of each question in PART C.
 - (3) Each question carries 2 marks in PART A, 3 marks in Part B and 10 marks in PART C.]

PART - A

- 1. Define solar radiation quantity.
- 2. What is a polar wind?
- 3. What is micro climatic effect?
- 4. List out the various types of climates.
- 5. Define isopleth.
- 6. What s solar passive design?
- Define an egg crate shading device.
- 8. What are insulating materials?

PART - B

- 9. Classify the solar radiation quantity.
- 10. Write a note on relative humidity.
- 11. What are the uses of CET?
- 12. What are equal comfort lines and how are the named?
- 13. How stone will react with different climates?
- Explain passive solar heating with reference to the orientation of a building.
- 15. How shading devices are designed?
- 16. Describe about orientation for wind.

[Turn over.....

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PART - C

17. (a) Explain in detail the various elements of climate.

(Or)

- (b) How a building is oriented with respect to climate zones?
- 18. (a) Describe the bio climatic chart with sketches.

(Or)

- (b) Explain about the analysis of climate with CET.
- 19. (a) Describe in detail the three basic types of shading devices.

(Or)

- (b) Elaborate passive solar heating and cooling.
- 20. (a) Explain the effects of wind on climate.

(Or)

- (b) Describe the various wind protection devices.
- 21. (a) Explain about the suitable materials for warm humid climate.

(Or)

(b) Explain about the insulating materials used in detail.

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