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Code No.:14111 AS N(A)

VASAVI COLLEGE OF ENGINEERING (Autonomous), HYDERABAD
B.E. (CBCS) IV-Semester Advanced Supplementary Examinations, July-2019

Green Buildings
(Open Elective-II)

Time: 2 hours

Max. Marks: 40

Note: Answer ALL questions in Part-A and any FIVE from Part-B

Part-A (5 × 2 = 10 Marks)

1. What do you understand by set-back line and control line?
2. Define the following
 - i) Carpet area
 - ii) Built up area
3. What is heat Island effect?
4. What are the principles of green Buildings?
5. Describe various measures that you would take for waste management?

Part-B (5 × 6 = 30 Marks)

- 6.a) What are the factors that affects the orientation of a building and explain in brief? [3]
- b) Write the suggestions given by C.B.R.I for the optimum orientation of a building. [3]
- 7.a) What are the common errors in planning of a building? [2]
- b) Discuss about the following principles of planning of a Residential Building. [4]
 - i) Aspect ii) Prospect iii) Privacy iv) Sanitation
- 8.a) Explain the Building bye-laws with reference to open space requirements. [3]
- b) Expand and Define FAR. Calculate the FAR of a building of 1500 square feet floor area in a plot area of 5000 square feet. [3]
- 9.a) What is green building? What are the objectives of green buildings? [2]
- b) Differentiate between conventional building and green building. [4]
- 10.a) How green buildings are benefited to the society? [2]
- b) Discuss the design criteria of green building with reference to site selection. [4]
- 11.a) Expand the terms GRIHA and LEED. [2]
- b) List out the criteria followed in the certification of a green building by GRIHA. [4]
- 12.a) Write and explain the components of Roof top Rainwater Harvesting system. [3]
- b) Illustrate the case study of a LEED certified Green building. [3]

