

412

Register No.:

April 2024

*Time – Three hours*  
*(Maximum Marks: 100)*

- [N.B. 1. Answer all questions under Part-A. Each question carries 3 marks.  
2. Answer all the questions either (A) or (B) in Part-B. Each question carries 14 marks.]

PART – A

1. What are the benefits of green building?
2. What is the purpose of fenestration in green building architecture?
3. Write short notes on energy audit.
4. Write any three objectives of EIA.
5. What is renewable energy?
6. What is energy conservation?
7. Write short notes on Green building.
8. What is energy efficiency in housing?
9. Write short notes on IGBC.
10. Write short notes on BER.

[Turn over.....

PART – B

11. (a) Describe about various energy efficiency techniques in green building.  
(Or)  
(b) Explain about various passive cooling and heating techniques.
12. (a) Describe about energy audit procedure for residential and commercial building.  
(Or)  
(b) Explain the various steps involved in the process of Environmental clearance for Civil Engineering projects.
13. (a) Illustrate the various components of a hydro electric power plant with sketch.  
(Or)  
(b) Write short notes on  
(i) Green House. (7)  
(ii) Passive House Construction. (7)
14. (a) Explain about various waste material reused in green building.  
(Or)  
(b) Write short notes on  
(i) Housing Modernization. (7)  
(ii) Modular Kitchen. (7)
15. (a) Explain about various services offered by NPC.  
(Or)  
(b) Explain about various measures to increase furnace efficiency in heating energy system.