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Department of Civil Engineering

Question Bank

Subject – BTCVC401_Building Planning & Drawing

Module 1

1. Describe following principles of planning? a) Grouping b) Privacy
2. Describe following principles of planning? a) Aspect b) Prospect
3. Describe following principles of planning? a) Roominess b) Circulation
4. Describe following principles of planning? a) Accentuation b) Contrast
5. Explain sun path diagram with sketch?
6. Describe importance of sun path diagram?
7. What are the components of sun path diagram? Explain these components?
8. What is the importance of wind diagram in building planning?
9. Which are the governing factors for orientation of building?
10. How orientation of building gives better design?
11. Describe design criteria for building to be designed in hot and humid climatic zone?
12. Describe design criteria for building to be designed in hot and dry climatic zone?
13. Describe design criteria for building to be designed in cold climatic zone?
14. Explain the concept of green building?
15. Which are the criteria to be fulfilled for green building?
16. Explain GIHA rating system for green building?

OR

17. Draw a plan of a two storey bungalow with living room, bedrooms (2 no), kitchen and toilets.
Scale – 1: 100 _____ (20 marks)

Module-2

1. Describe development plan with its scale, Colour code etc.?
2. Describe bye laws for means of access?
3. Describe bye laws for recreational open space?
4. Describe bye laws for front open space and side open space?
5. Which projections are allowed in open space around the building?
6. Explain floor space index?
7. What is the minimum area of following 1) kitchen 2) bathroom 3) WC?
8. What is the minimum width of following 1) kitchen 2) bathroom 3) WC?
9. What is the minimum height of following 1) living room 2) Basement?
10. What is the minimum parking space for car & scooter?
11. Which documents are required to get development permission?
12. Describe the requirement of municipal drawing for development permission?
13. Explain the term Anthropometry?
14. What is the difference between a) row house b) twin bungalow c) apartment?
15. Describe content of municipal drawing required for development permission?

Module-3

1. Which are the various services provided in plumbing & drainage system?
2. Describe direct & indirect water distribution system?
3. Which are the bye laws for water requirement for different types of buildings?

4. Describe drainage below ground and drainage above ground?
5. Describe nahn trap with sketch?
6. Describe gully trap with sketch?
7. Describe intercepting trap with sketch?
8. Describe one pipe & two pipe plumbing system?
9. Describe septic tank & soak pit sketch?
10. Describe how to calculate rain water harvesting tank?
11. Describe lumen method of lighting design with example?
12. Describe various factors affecting selection of wiring system?
13. Describe different types of wiring system?
14. Describe various firefighting systems?
15. Which are the bye laws to be used for firefighting system of building?
16. Draw a typica layout of toilet showing all drainage pipes?

Module-4

1. Describe definition & function of natural ventilation?
2. Describe design consideration for natural ventilation?
3. What are the functions of air conditioning?
4. Describe working of air conditioning system?
5. Describe various types of AC systems?
6. Describe the tonnage calculation for AC unit with example?
7. Explain various methods of reducing load on AC?
8. Explain working of window air conditioning system?
9. Explain working of split AC unit?
10. Describe conduction, convection & radiation?
11. What are the advantages of thermal insulation?
12. Which materials are used for thermal insulation? explain each of them?
13. Describe the calculation for heat loss?
14. Which are the methods for mechanical ventilation?
15. What are the recommended values of air change/hour for different types of building?
16. Draw a sketch of window AC unit showing all components?
17. Draw a plan of one BHK flat showing furniture layout (scale 1: 50)?

Module-5

1. Which are the criteria to be fulfilled for green building?
2. Explain GRIHA rating system for green building?
3. What is the definition & importance of Acoustics?
4. Explain wavelength & frequency of sound?
5. Explain reflection & absorption of sound?
6. Describe the term reverberation?
7. Explain Sabine's formula with an example?
8. Which are the factors affecting acoustics of the building?
9. Explain noise and its types?
10. How to control external noise?
11. How to control internal noise?
12. Which are the various international rating systems for green building?
13. What are the criteria for site selection and material selection in green building evaluation?
14. Describe any four criteria for green building rating system?
15. What is the importance of green building?

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