



BUILDING AND ENVIRONMENTAL SCIENCE

Question Bank

Government Polytechnic, Bhubaneswar

Diploma in Architecture Assistantship | IV Semester

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Lect. In AA

1 Climatic condition

- (1) Explain climate?
- (2) What are the major elements of climate?
- (3) What do you mean by Architectural Climatology?
- (4) Explain the major steps in Architectural Climatology.
- (5) What are the major concerns of planning?
- (6) Define Topography?
- (7) Explain Topographic mapping.
- (8) What is the major concept behind passive solar building design?
- (9) What are the Advantage of Day light?
- (10) Why sky light are Provided?
- (11) Why light tubes are provided?
- (12) Explain the Orientation of Building design.
- (13) Explain Ventilation. Draw sketch and show +VE & -VE Wind pressures around different building configuration.
- (14) Explain the strategies to reduce high humidity.
- (15) What is Noise Control System?
- (16) Explain the basic principles of noise control.
- (17) Explain the concept of Architectural Acoustics.

2 Climatic control in building

- (18) Explain sun shading device with figure.
- (19) What is the importance of sun shading device?
- (20) Mention the use of Shading?
- (21) What is solar shading?
- (22) Explain various types of sun shading device.
- (23) What are the major design considerations for shading device?

- (24) What are the major constraints of shading device?
- (25) Explain the angles specified for the performance of shading device?
- (26) Explain Solar attitude angle of VSA.
- (27) What are the major disadvantages of sun shading devices?
- (28) How shade depth and shade width is calculated?

3 Principles of landscape design

- (29) Explain the principles of design.
- (30) Mention the major important of landscape design?
- (31) What are the major principles of Landscape design?
- (32) Differentiate between symmetrical and asymmetrical balance.

4 Major Climate Zones on the Earth

- (33) Briefly explain the major climate zones on the earth.
- (34) What are the main factors that determine climate?
- (35) Explain different climate types on the earth.

5 Factors that affect landscaping

- (36) Explain the factors affecting Landscape Design.

6 Properties and Behavior of Sound

- (37) Explain Sound.
- (38) How Sound Behave in an enclosure? Explain.
- (39) What are the Factors affecting the behaviour of sound in an enclosed space.