

Scheme - I
Sample Question Paper

Program Name : Civil Engineering Program Group
Program Code : CE/CR/CS
Semester : Fifth
Course Title : Energy Conservation and Green Building (Elective)
Max. Marks : 70

22506

Time: 3 Hours

Instructions:

- (1) All questions are compulsory.
- (2) Illustrate your answers with neat sketches wherever necessary.
- (3) Figures to the right indicate full marks.
- (4) Assume suitable data if necessary.
- (5) Preferably, write the answers in sequential order.

Q.1 Attempt any FIVE of the following.

10 Marks

- a. State different types of environmental audits.
- b. Explain the necessity of Environmental audit
- c. List any four renewable energy sources.
- d. Define non renewable energy source.
- e. Define the term Green Building.
- f. List various systems used for rating of Green Building in India.
- g. Define LEED criteria.

Q.2 Attempt any THREE of the following.

12 Marks

- a. Explain four important sources of air pollution
- b. Describe the measures to reduce noise pollution.
- c. Explain four environmental laws for controlling pollution.
- d. State the importance of environmental impact assessment..

Q.3) Attempt any THREE of the following.

12 Marks

- a. Explain any two types of construction projects requiring environmental clearance.
- b. State advantages of Green building over traditional building.
- c. Explain any six green building materials.
- d. Explain benefits to the school after getting IGBC green rating certification for school building.

Q.4) Attempt any THREE of the following.

12 Marks

- a. Explain principles of green building.
- b. Explain the role of HVAC system in Green Building.
- c. Explain four environmental design (ED) strategies for building construction.
- d. Explain criteria for converting existing residential building in to Green Building.
- e. Differentiate between GRIHA and IGBC rating system of Green Building.

Q.5) Attempt any TWO of the following.

12 Marks

- a. Describe various steps for carrying out the environmental impact assessment of mass housing project.
- b. Differentiate between renewable and non renewable energy sources on any six points
- c. Explain in detail need of energy conservation.

Q.6) Attempt any TWO of the following.

12 Marks

- a. Explain role of MEDA in energy conservation in city
- b. Explain principles of Green building used in educational building.
- c. Explain salient features of green building

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Scheme - I
Sample Test Paper - I

Program Name : Civil Engineering Program Group
Program Code : CE/CR/CS
Semester : Fifth
Course Title : Energy Conservation and Green Building (Elective)
Max. Marks : 20

Time: 1 Hour

22506

Instructions:

- (1) All questions are compulsory.
- (2) Illustrate your answers with neat sketches wherever necessary.
- (3) Figures to the right indicate full marks.
- (4) Assume suitable data if necessary.
- (5) Preferably, write the answers in sequential order.

Q.1 Attempt any FOUR of the following.

08 Marks

- a) Explain the term air pollution.
- b) List four important sources of water pollution.
- c) State Regulatory external audit.
- d) State Benefits of Environmental impact assessment.
- e) Explain need of energy conservation.
- f) State the government organization working for energy conservation.

Q.2 Attempt any THREE of the following.

12 Marks

- a) Explain any four environmental laws for controlling pollution.
- b) Explain the steps in environmental impact assessment process.
- c) Explain objective based types of environmental audit.
- d) Explain role of MEDA in energy conservation.
- e) Explain salient features of energy conservation act 2001

Scheme - I
Sample Test Paper - II

Program Name : Civil Engineering Program Group
Program Code : CE/CR/CS
Semester : Fifth
Course Title : Energy Conservation and Green Building (Elective)
Max. Marks : 20

22506

Time: 1 Hour

Instructions:

- (1) All questions are compulsory.
- (2) Illustrate your answers with neat sketches wherever necessary.
- (3) Figures to the right indicate full marks.
- (4) Assume suitable data if necessary.
- (5) Preferably, write the answers in sequential order.

Q.1 Attempt any FOUR of the following.

08 Marks

- a) Define Green building.
- b) List any four green building materials.
- c) State benefits of Green building.
- d) State different rating systems for Green building.
- e) State LEED criteria.
- f) State role of HVAC system in Green building.

Q.2 Attempt any THREE of the following.

12 Marks

- a) Explain in brief principles of Green building planning.
- b) Explain environmental design (ED) strategies for Green building construction
- c) Explain the strategies you will follow to convert conventional building into Green building
- d) Differentiate between GRIHA and EDGE rating system of Green Building
- e) Explain salient provisions used in IGBC green rating system.
- f) Explain in brief Green building rating system BEE adopted in the country.
