



# UNIVERSITY OF RUHUNA

Faculty of Engineering

End-Semester 4 Examination in Engineering: December 2015

**Module Number: IS4205**

**Module Name: Aesthetics and Design**

**[Three Hours]**

**[Answer all questions]**

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- Q1.** (a) Write short notes on any two of the following topics.
- (i) Landscape architect
  - (ii) Aesthetics
  - (iii) Good taste & Bad taste [2 Marks]
- (b) An "Aesthetic Beauty" of an object is mainly dependent on the 'Art Elements' and 'Design Principles', which have been used to create an object and the way they used.
- (i) Name 4 Art Elements and 4 Design Principle which may help to increase the value of Aesthetic Beauty. [4 Marks]
  - (ii) Briefly explain 2 of the Art Elements and 2 of the Design Principles that you have named above. [4 Marks]
- Q2.** (a) (i) Name the two most appropriate Design Principles which are very common & widely applied in the Field of Engineering, Architecture, Building industry, etc. [2 marks]
- (ii) As an engineering student, write your opinion regarding the importance of the two 'Design Principles', you named in Q2 (i) and their applications in the field of engineering. Sketches are essential for better clarification. [2 Marks]
- (b) Artists use different techniques to draw 3D-images on their 2D drawing sheets. Name the principles used to create 3D images successfully and briefly explain the situation. [3 Marks]

- (c) Study & identify the 'Art Elements' & 'Design Principles' that used by the artist in Fig. Q2 (c) to communicate his idea to the observer. Analyze & appreciate the painting while mentioning the way they used the 'Art elements' & 'Design Principles' to express his ideas with success.

[5 Marks]

**Q3.** Environment is our surroundings, or conditions in which people, animals or plants live or operate.

- (i) What are the two main components that the environment is made up of?

[1 Mark]

- (ii) What is the difference between Natural Environment and Man-Made Environment? Draw sketches where it is necessary to explain your answer.

[2 marks]

- (iii) What do you mean by Natural Eco-System?

[2 marks]

- (iv) "As designers, they have to play an effective role and pay more attention on environmental protection, on their new creation." Why is it important to pay more attention on the environment, when starting a new construction project? Give examples & explain the situation.

[5 Marks]

**Q4.** (a) (i) Name the three objectives of aesthetic planning.

[1.5 Marks]

- (ii) Briefly explain one of the objectives mentioned in the above Q4-(a)(i).

[1.5 Marks]

- (iii) "A good taste gets reflected in the possessions that one acquires. The rest of a good taste becomes so rewarding that it even improves the personality of that person." Briefly explain the steps that one can develop a "good taste".

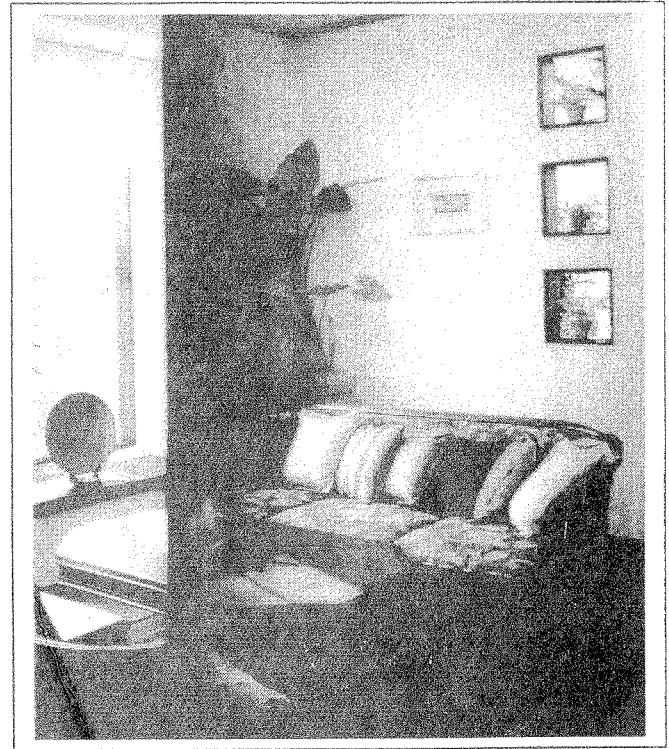
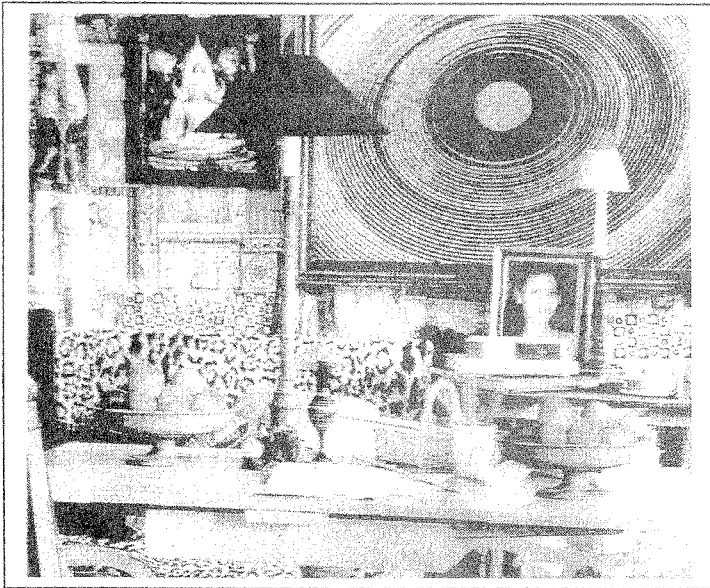
[3 Marks]

- (b) (i) Briefly explain the term "Interior Design".

[2 Marks]

- (ii) "Every person is different from other & every personality has different requirements for living. Some like to live simple, some like to live a stylish modern living." Study the following two pictures of "Living room interiors". And comment on which one is more pleasant and having better value for its aesthetic beauty.

[4 Marks]



Q5. The design is a problem-solving and decision making process. All the problems require certain basic stages in the process of their solution.

- (a) Landscape design process consists of four main steps. State these steps in sequence.

[2 marks]

- (b) According to the sequence mentioned in Q5 (a), briefly explain the step-2 of the design process. Draw sketches or diagrams using suitable symbols, where it necessary.

[4 marks]

- (c) Assume that your family members wanted to redesign your home garden with the demands of the new requirements of your family. As you studied about the garden design, you have the responsibility of this task and prepare the design program accommodating following requirements in order to make happy all the members of the family,

- Double space garage ( next to the east side of the existing home)
- Attractive flower garden ( in the front yard)
- Properly design drive way to withstand for any weather conditions
- Kitchen garden in the back yard close to the kitchen
- Seating area under the existing shady trees ( in the front yard)
- Private garden space for family entertainment in the back yard (identify spaces for different activities such as younger brothers' play area, deck area for reading, family conversation, outdoor meal etc..)
- Garbage collecting place (find suitable place for it)
- New fruit tree to be planted along the boundary to block the view from the neighboring houses on the west side.
- Find a more emphasize area within the garden and design it as the focal point of the garden.
- Proper circulation within the garden ( font yard to back yard)

Considering all requirements of your family, transform your existing garden as given in Figure Q5 (c) to a useful and very cheerful garden with the help of your design skills and the knowledge of design theories. Your design should be done on the sheet provided with Figure Q5 (c) and it should be attached with your answer scripts. [12 Marks]



Figure Q2 (c)

