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B.Arch. Degree VII Semester Examination November 2018**AR 1702 URBAN DESIGN**
(2014 Scheme)

Time : 3 Hours

Maximum Marks : 100

PART A
(Answer *ALL* questions)

(8 × 5 = 40)

- I. Write short notes on:
- Urban design and its evolution
 - The city beautiful movement
 - Imageability and way finding
 - Urban enclosure
 - Image of the city
 - Vistas and skyline
 - Urban revitalization
 - Waterfront development

PART B

(4 × 15 = 60)

- II. Is Urban design same as Urban planning? What are the objectives and scope of Urban design? Explain how the field of Urban design evolved as a profession.
- OR**
- III. Detail out the distinct characteristics of Indian medieval towns with an example.
- IV. Explain in detail the visual theory of Urban design propagated by Kevin Lynch with good examples.
- OR**
- V. "Spatial relationships are created through spatial organizations of the forms". Comment and use examples to substantiate.
- VI. Illustrate urban spaces and their characteristics space linkage.
- OR**
- VII. Explain the process of conducting visual survey with the help of a suitable urban study that you have done.
- VIII. Discuss the role of transportation network in creating a people friendly city. What is the role of pedestrian areas in a city?
- OR**
- IX. Elucidate in detail the Urban renewal, its scope, need and procedure and effects. Discuss with examples.

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B.Arch. Degree VII Semester Examination November 2018

AR 1703 HOUSING

(2014 Scheme)

Time : 3 Hours

Maximum Marks : 100

PART A

(Answer *ALL* questions)

(8 × 5 = 40)

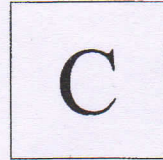
- I. Write short notes on:
- (a) Urbanisation in India
 - (b) Prime Minister Awaz Yojana
 - (c) Slum improvement
 - (d) National Housing Bank
 - (e) Incremental Housing
 - (f) Beneficiary participation in housing
 - (g) Informal sources of Finance
 - (h) Role of housing in employment generation

PART B

(4 × 15 = 60)

- II. What is meant by housing shortage? How is it calculated? Which are the factors considered in estimating the qualitative housing shortage?
OR
- III. Government role in tackling housing issue has undergone tremendous change in past 30 years. Elaborate.
- IV. Rural housing is dominated by Kutchha houses and poor infrastructure conditions. Explain the major issues in rural housing in India.
OR
- V. Briefly describe any slum improvement programme implemented in Indian cities. What are the major areas of action?
- VI. What is the role of Non Governmental Organizations (NGOs) and Community Based Organizations (CBOs) in housing the poor? Explain with examples.
OR
- VII. What is the need for a National Housing Policy? What are the major Goals of the National Urban Housing and Habitat Policy?
- VIII. What is the importance of housing finance? What are the challenges in accessing housing finance for the Low Income Groups?
OR
- IX. Which are the major housing finance institutions in India? List some of the recent measures in increasing housing finance to poorer sections by these institutions.

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B.Arch. Degree VII Semester Examination November 2018

AR 1704 INTERIOR DESIGN
(2014 Scheme)

Time: 4 Hours

Maximum Marks: 100

(Use illustrations wherever required. Illustrations carry due credits.)

PART A

(Answer **ALL** questions)

(8 × 5 = 40)

- I. Write short notes on the following:
- Proportion and Ratio in Interior Design
 - Importance of Texture and Material in Interior Design
 - Color in Interiors
 - Elements in Interior Design
 - Ergonomics
 - Accessories in Interior Design
 - Exhibits in Public Interiors
 - Indoor Plants

PART B

(1 × 60 = 60)

- II. Design the Interior of Principal Architect's Cabin of a Reputed Design Firm. Design the cabin with an approximate area of 60 sq m to accommodate office space, waiting space, exhibition space of project models, drawings etc.

Assume data wherever necessary. Specify all materials being used, with dimensions.

Requirements:

- Detailed plan of the Interior – 1:20 Scale. (30)
- Sectional Interior perspective giving maximum details – 1:20 Scale. (20)
- Furniture Design for the room with view. (10)

The design scheme should also include floor and ceiling design.

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B.Arch. Degree VII Semester Examination November 2018

AR 1705 DESIGN ASPECTS OF EARTH QUAKE RESISTANT STRUCTURES (2014 Scheme)

Time : 3 Hours

Maximum Marks : 100

PART A (Answer *ALL* questions)

(8 × 5 = 40)

- I. (a) Briefly explain soft storey mechanism.
(b) Define the terms fundamental period and mode shape.
(c) Summarize philosophy of seismic design.
(d) What are the different modal combination techniques recommended for estimating lateral forces?
(e) Explain the various factors affecting ductility.
(f) Define response reduction factor.
(g) What are the basic requirements of an isolation system?
(h) Discuss the basic principle behind base isolation.

PART B

(4 × 15 = 60)

- II. Discuss the influence of building configuration on seismic response of a structure.
- OR**
- III. Define torsion irregularity. What are the different measures that can be adopted to minimize torsional effects in a building?
- IV. Discuss the various approaches to seismic analysis developed to determine the lateral forces generated in a structure.
- OR**
- V. Explain in detail the equivalent static procedure as per IS 1893-1.
- VI. Define ductility. Discuss how ductility can be introduced in structural members as per IS 13920?
- OR**
- VII. What are the various ways of quantifying ductility?
- VIII. Illustrate the response of a base isolated structure compared to a non isolated structure.
- OR**
- IX. Discuss the various types of base isolation systems.

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B.Arch. Degree VII Semester Examination November 2018**AR 1706 (a) SUSTAINABLE ARCHITECTURE**
(2014 Scheme)

Time: 3 Hours

Maximum Marks: 100

PART A
(Answer *ALL* questions)

(8 × 5 = 40)

- I. Write short notes on the following:
- Capacity building
 - Climate change
 - Eco architecture
 - Biomimicry
 - GRIHA
 - BREEAM
 - Urban ecology
 - Dimensions of sustainability

PART B

(4 × 15 = 60)

- II. Describe briefly about the concept of sustainability. Explain in brief its scope and components.
- OR**
- III. Explain the role of building industry on global warming and climate change.
- IV. Describe with examples the benefits of eco building materials and construction, its categories and properties.
- OR**
- V. Describe embodied energy and life cycle analysis.
- VI. Discuss in detail the major objectives and fundamental principles in green building concept and describe any one global green rating system.
- OR**
- VII. Explain LEED and LEED in India.
- VIII. What is urban heat island? What are the impacts due to UHI? Mention the cooling strategies of UHI.
- OR**
- IX. What are the characteristics that define a sustainable community? Explain with a case study.

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B.Arch. Degree VII Semester Examination November 2018**AR 1707 (a) RESEARCH METHODOLOGY AND STATISTICS**
(2014 Scheme)

Time: 3 Hours

Maximum Marks: 100

PART A
(Answer *ALL* questions)

(8 × 5 = 40)

- I. Write short notes on the following:
- Research paradigms
 - Literature search
 - Descriptive statistics
 - Non parametric methods
 - Abstract writing
 - Citing references
 - Interviews
 - Behavioral research

PART B

(4 × 15 = 60)

- II. What are the factors to be considered for developing a research proposal?
OR
- III. In what way literature and theories are helpful in research? Illustrate with suitable examples.
- IV. Briefly describe the important parametric tests used in the context of testing hypotheses.
OR
- V. What is a hypothesis? What characteristics it must possess in order to be a good research hypothesis?
- VI. Write in detail the principles of report writing.
OR
- VII. Discuss the layout and mechanics of writing a technical research report.
- VIII. What are the guiding considerations in the construction of questionnaire? Explain.
OR
- IX. What do you understand by field survey? Explain its relevance.
