2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.
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GBCS SCHEME

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USN					15HUM56

# Fifth Semester B.Arch. Degree Examination, June/July 2023 Sociology and Building Economics

Time: 3 hrs.

Max. Marks: 100

			100
		Note: Answer any FIVE full questions, choosing ONE full question from each mod	dule.
		Module-1	
1	a.	Briefly enumerate the elements of a society.	(10 Marks)
	b.	Establish the necessity of study of sociology and its impact on built environment.	(10 Marks)
		F. Isia da abaset OR	
2		Explain the character and functions of a family.	(08 Marks)
	b.	Differentiate between Bio-social and socio culture elements of a society.	(12 Marks)
3		Define Urbanization and the unl	(0.5.5.
3	a. b.	Define Urbanization and the urbanization process.	(05 Marks)
	U.	Elaborate on the impact of urbanization and the resulting social problems.	(15 Marks)
		OR	
4	a.	Discuss migration, its causes and impact on urbanization.	(10 Marks)
•	b.	Write short notes on :	(10 Marks)
	0.	i) Purpose of social research.	
		ii) Secondary source of data.	(10 Marks)
			(10 1/24/15)
		Module-3	
5		Briefly Explain	
	a.	Utilities	
	b.	Value	
	c.	Price	
	d.	Wealth	(20 Marks)
,		OR	
6	2	Discuss in detail the economic organization of a society.	(20 Marks)
	-	Module-4	
7		Explain in brief.	
′	a.	Consumption	
	ъ.	Wants	
	c.	Needs	
	d.	Opportunity cost	
	۵.	opportunity cost	(20 Marks)
			(20 1.200)
		OR	
8		Explain briefly, ( )	
	a.	Laws of supply and Demand	(15 Marks)
	b.	Laws of Diminishing return	(05 Marks)
		A "	(02

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Explain the Bid Rent theory which define the relation between location and land value. 9

(12 Marks)

- Write short notes on. b.
  - i) Life cycle cost
  - ii) Cost and Cost Indices

(08 Marks)

Explain the theoretical city models based on land use and land value. 10

(20 Marks)

2 of 2

15ARC52

# Fifth Semester B.Arch. Degree Examination, Dec.2023/Jan.2024 Materials and Methods is ...iding Construction - V

		Materials and Methods in Building Construction	on – V
	Time		x. Marks: 100
		Note: Answer any FIVE full questions, choosing ONE full question from eac	h module.
j	l a	An 'L' angle truss roof system is required for a building of size 12m × following construction details for suitable scale:  Key plan.	20m. Draw the
	b	605 117	(05 Marks)
	c.	Any 2 detail.	(10 Marks)
			(05 Marks)
		OR	
2	a.	Define truss. List the various types of steel trusses with sketches.	(10.84
	b.	List the various types of roofing materials that can be used for roof trusses.	(10 Marks)
		Module-2	(10 Marks)
3		A pre engineered building is required for an industrial building of 15m ×	30m and has a
		clear height of 6m. Provide the following details:	John and has a
	a.	Roof plan – 1:100	(08 Marks)
	b.	Section showing portal frame – 1:100	(08 Marks)
	C.	Any 2 details – 1:10	(04 Marks)
		OR	(or marks)
4		Write short notes with explanatory sketches for.	
	а.	Edge and valley beams and stiffening beams and archribs in waulted roof.	(10 Marks)
	b.	Shell roofs.	(10 Marks)
_		Module-3	
5		Provide construction details for an RCC folded plate roof for a b	uilding of size
	4	Zom-John height.	
	a. L	Roof plan – 1:100	(08 Marks)
	b.	Section – 1:100	(08 Marks)
	c.	Gutter Detail 1:10	(04 Marks)
		OR	
6		Write short notes with explanatory sketches and details of construction for:	
	a.	Geodesic Domes	(10 Marks)
	b.	Hyperbolic paraboloid shell Roofs	(10 Marks)

Hyperbolic paraboloid shell Roofs (10 Marks)

# Module-4

An exhibition Installation of 20m×20m needs a space frame structure to be designed. 7 Provide the following drawings:

Roof plan-1:100 (08 Marks) Partial section (showing connectors) - 1:50

(08 Marks) Connector Detail - 1:5 (04 Marks)

unportant (Note: 1. On completing your answers, compulsoril was diagonal cross lines on the remaining blank pages.

2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated analyzactice.

# OR

		What are the different types of Tensile Roofs? Explain the construction	
8	a.	What are the different years with the construction	details with
		sketches.  Explain pneumatic structure and its principles with the help of sketches.	(10 Marks)
	b.	Explain pneumatic structure and the help of sketches.	(10 Marks)

# Module-5

9 a. Explain the types and uses of plastic.
(10 Marks)
b. What are sealants? Explain various types of sealants.
(10 Marks)

## OR

10 a. How is water proofing done in the following cases:

i) Toilets ii) Basement
b. Explain various construction chemicals used in buildings. (10 Marks)

CBCS SCHEME

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# Fifth Semester B.Arch. Degree Examination, Dec.2023/Jan.2024 History of Architecture - V

Time: 3 hrs.

Max. Marks: 100

- Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.
  - 2. Supplement the answers with neat, proportionate and relevant sketches.
  - 3. Sketches and explanatory notes carry equal weightages of marks.

Module-1

- a. Enumerate the various types of buildings and their importance, Indo-Islamic style in India.
  - b. Illustrate and explain the general architectural characteristic features of public mosque in India. (10 Marks)

OR

- 2 a. Illustrate and explain the general architectural characteristic features of Khalji style with any one example. (10 Marks)
  - b. Illustrate and explain the planning principles, layout design and arrangement of spaces and buildings in Firoz Shah Kotla, Old Delhi. (10 Marks)

Module-2

- a. With suitable sketches, explain the typical architectural characteristic features of Bengal mosques of later phase. (10 Marks)
  - b. With relevant sketches, explain the architectural design features of Dakhil darwaza at Gaur.
    (10 Marks)

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- 4 a. With the sketches of plan and section, explain the typical architectural design features of Ways of Gujarat. (10 Marks)
  - b. With the vertical section of the main tomb building of Ibrahim Rauza, Bijapur, explain its architectural characteristic design features. (10 Marks)

Module-3

- 5 a. With suitable sketches, explain the structural systems and roofing methods employed in the Jami Masjid at Gulbarga. (12 Marks)
  - b. With ground plan, explain the architectural and decorative features of Madrassa of Mohammed Gawan, Bidar. (08 Marks)

OR

- 6 a. With suitable sketches, explain the architectural design features of Diwan-i-khas, Fathehpur Sikri. (10 Marks)
  - b. With relevant sketches, explain the architectural design features of Birbal's house at Fatehpur Sikri. (10 Marks)

Module-4

With site plans of Akbar's tomb and Tajmahal, compare the layout designs and arrangement 7 of gardens and buildings.

of gardens and buildings. (12 Marks)
With suitable sketches, explain the architectural design features of Diwan-i-am and Diwan-i-khas, Red fort, Delhi. (08 Marks)

With site plan, explain the planning and design principles of Fort St George, Madras. 8

(08 Marks)

(08 Marks)

Illustrate and explain the building types and general architectural character of early Colonial (12 Marks) architecture in India.

# Module-5

With suitable sketches, explain the architectural design and the composition of various elements on the façade of Victoria Terminus, Bombay. 9

Illustrate and explain the Lutyen's design approach and various elements of composition employed in the design of Rashtrapathi Bhavan, New Delhi. (10 Marks)

# OR

With suitable sketches, explain the architectural design features of cathedral of Bom Jesus, 10 (10 Marks)

With suitable sketches, explain the architectural characteristic features of Domestic French (10 Marks) buildings of Pondicherry.

# 2. Any revealing of identification, appeal to evaluator and for equations without 25, 12

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What is a transform cooling with sketch Explain the general and demerits.  a. Discuss various means b. Explain the concept a. Explain the need criteria.  b. Write short notes, i) MCB ii) Fuses and its to Explain the plate if the explain the explain the plate if the explain the explain the plate if the explain	Note: 1. Answer any FIVE  2. Support your ans  a. Define electricity? Disc in a building, b. What is meant by sub-st  a. Explain the distribution diagram. b. What is a transformer? cooling with sketches.  Explain the generation and demerits.  a. Discuss various measure b. Explain the concept of  a. Explain the need of periteria. b. Write short notes, with i) MCB ii) Fuses and its types  a. What is Earthing? Exp b. Explain the plate Earth	Fifth Semester B.Arch.  Buil  3 hrs.  Note: 1. Answer any FIVE full q 2. Support your answer with a building.  b. What is meant by sub-station  a. Explain the distribution of eldiagram.  b. What is a transformer? Explain the generation of eldiagram.  Explain the generation of eldiagram demerits.  a. Discuss various measures to b. Explain the concept of "Net and demerits.  b. Write short notes, with the hilliagram it b. Write short notes, with the hilliagram it b. Explain the plate Earthing management of the plate Earthing	Fifth Semester B.Arch. Degrated Building  Building  3 hrs.  Note: 1. Answer any FIVE full question 2. Support your answer with notes.  a. Define electricity? Discuss various of in a building. b. What is meant by sub-station? Discusate diagram.  b. What is a transformer? Explain its procooling with sketches.  Explain the generation of electricity and demerits.  a. Discuss various measures to conserve b. Explain the concept of "Net zero Bustand demerits.  b. Write short notes, with the help of single in the plate Earthing method with the plate Earthing m	Fifth Semester B.Arch. Degree Ex  Building Ser  2: 3 hrs.  Note: 1. Answer any FIVE full questions, choose 2. Support your answer with neat sket on Define electricity? Discuss various considers in a building.  b. What is meant by sub-station? Discuss the full of the distribution of electricity from diagram.  b. What is a transformer? Explain its principle cooling with sketches.  Explain the generation of electricity using s and demerits.  OR  a. Discuss various measures to conserve electricity.  b. Explain the concept of "Net zero Building Discussion of the protective devices in criteria.  b. Write short notes, with the help of sketch on i) MCB ii) Fuses and its types.  OR  a. What is Earthing? Explain its importance in b. Explain the plate Earthing method with the land of the plate Earth	Fifth Semester B.Arch. Degree Examina Building Services:  3 hrs.  Note: 1. Answer any FIVE full questions, choosing ON 2. Support your answer with neat sketches.  1. Define electricity? Discuss various considerations in a building.  3. What is meant by sub-station? Discuss the functions  1. Answer any FIVE full questions, choosing ON 2. Support your answer with neat sketches.  1. Module-1  1. OR  2. Support your answer with neat sketches.  OR  3. Explain the distribution of electricity from generating diagram.  3. What is a transformer? Explain its principle of operation cooling with sketches.  OR  2. Support your answer with neat sketches.  OR  3. Explain the distribution of electricity from generating diagram.  B. What is a transformer? Explain its principle of operation cooling with sketches.  OR  3. Discuss various measures to conserve electricity.  B. Explain the concept of "Net zero Building Design".  Module-3  a. Explain the need of protective devices in building criteria.  b. Write short notes, with the help of sketch on:  i) MCB  ii) Fuses and its types.  OR  a. What is Earthing? Explain its importance in building b. Explain the plate Earthing method with the help of a Module-4  Discuss the various types of lamps available and the	Building Services – II  2. 3 hrs.  Note: 1. Answer any FIVE full questions, choosing ONE full of 2. Support your answer with neat sketches.  Define electricity? Discuss various considerations involved in a building.  b. What is meant by sub-station? Discuss the functions and class diagram.  b. What is a transformer? Explain its principle of operation and cooling with sketches.  Explain the generation of electricity using solar, hydel or that and demerits.  OR  a. Discuss various measures to conserve electricity.  b. Explain the concept of "Net zero Building Design".  Module-3  a. Explain the need of protective devices in building elect criteria.  b. Write short notes, with the help of sketch on:  i) MCB  ii) Fuses and its types.  OR  a. What is Earthing? Explain its importance in buildings.  b. Explain the plate Earthing method with the help of a neat sketches.	Fifth Semester B.Arch. Degree Examination, Dec.:  Building Services – II  3 hrs.  Note: 1. Answer any FIVE full questions, choosing ONE full question 2. Support your answer with neat sketches.  Module-1  in a building.  What is meant by sub-station? Discuss the functions and classificated diagram.  B. What is a transformer? Explain its principle of operation and classic cooling with sketches.  Module-2  Explain the generation of electricity using solar, hydel or thermal and demerits.  OR  a. Discuss various measures to conserve electricity.  B. Explain the concept of "Net zero Building Design".  Module-3  a. Explain the need of protective devices in building electrical sy criteria.  B. Write short notes, with the help of sketch on:  i) MCB  ii) Fuses and its types.  OR  a. What is Earthing? Explain its importance in buildings.  b. Explain the plate Earthing method with the help of a neat sketch.  Module-4  Discuss the present types of lamps available and their ant application.	Fifth Semester B.Arch. Degree Examination, Dec.2023/A.  Building Services – II  2. 3 hrs.  Note: 1. Answer any FIVE full questions, choosing ONE full question from 2. Support your answer with neat sketches.  1. Define electricity? Discuss various considerations involved in planning of in a building.  2. What is meant by sub-station? Discuss the functions and classifications of  OR  2. Explain the distribution of electricity from generating station to consume diagram.  3. What is a transformer? Explain its principle of operation and classification cooling with sketches.  Module-2  Explain the generation of electricity using solar, hydel or thermal energy, and demerits.  OR  a. Discuss various measures to conserve electricity.  b. Explain the need of protective devices in building electrical system a criteria.  b. Write short notes, with the help of sketch on:  i) MCB  ii) Fuses and its types.  OR  a. What is Earthing? Explain its importance in buildings.  b. Explain the plate Earthing method with the help of a neat sketch.  Module-4  Discuss the various types of largues available and their ant applications.	Fifth Semester B.Arch. Degree Examination, Dec.2023/Jan.2  Building Services – II  : 3 hrs.  Note: 1. Answer any FIVE full questions, choosing ONE full question from each n  2. Support your answer with neat sketches.  a. Define electricity? Discuss various considerations involved in planning of electricity a building.  b. What is meant by sub-station? Discuss the functions and classifications of sub-stations with sketches.  OR  a. Explain the distribution of electricity from generating station to consumer unit diagram.  b. What is a transformer? Explain its principle of operation and classifications based cooling with sketches.  Module-2  Explain the generation of electricity using solar, hydel or thermal energy. Listin and demerits.  OR  a. Discuss various measures to conserve electricity.  b. Explain the need of protective devices in building electrical system and their criteria.  b. Write short notes, with the help of sketch on:  i) MCB  ii) Fuses and its types.  OR  a. What is Earthing? Explain its importance in buildings.  b. Explain the plate Earthing method with the help of a neat sketch.  Module-4  a. Discuss the various types of lamps available and their apt applications.

OR

Write notes with illustrations on:
a. Landscape lighting.
b. Systems of Luminaries. 8

(10 Marks)

(10 Marks)

# Module-5

- a. Draw an electrical layout for a Doctor's Clinic using standard notations. [Use the figure and b. Make a schedule of switch boards with mounting heights.

(15 Marks) (05 Marks)

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- $(2.0 \times 3.0m)$ Porch Waiting and Reception B- $(6.0 \times 3.0 \text{m})$
- C- Ante Room  $(1.2 \times 1.2 \text{m})$
- D- Consultation and Examination  $(5.0 \times 4.0 \text{m})$
- E-Store  $(1.2 \times 1.8 \text{m})$ F-
- Toilet 01  $(1.2 \times 1.8 \text{m})$ G-Toilet 02
- $(1.2 \times 1.30 \text{m})$

Give a detailed note on extra low voltage system and explain their relevance and 10 (20 Marks)

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CUCS SCHIME 18ARC63 Sixth Semester B.Arch. Degree Examination, June/July 2023 Building Services - III Max. Marks: 100 Time: 3 hrs. Note: Answer any FIVE full questions, choosing ONE full question from each module. Under what circumstances would mechanical ventilation system be proposed in a building by an architect? Describe an apt mechanical ventilation system for a factory and a residence respectively. OR (20 Marks) Explain refrigeration cycle with help of schematic diagram. Module-2 What are the classification of air conditioning systems? Explain any 2 in detail. (20 Marks) OR Define: i) Clean rooms (20 Marks) ii) Different types of duct systems. Module-3 Answer the following: i) Explain the different types of elevators based on hoist mechanism. ii) Explain average waiting time and peak handling capacity. (20 Marks) With the help of sketches explain in detail the different components of an elevator. (20 Marks) Write brief notes on: 1) Common causes of fire and classification of hazards. ii) Classification of buildings as per NBC. (20 Marks) Explain the concept of passive fire protection in buildings. (20 Marks) Module-5 Explain in detail with sketches different types of fire sprinkler systems. (20 Marks)

Explain in detail different types of fire Alarm system. Explain the components and 10 importance of fire alarm system. (20 Marks)

OR

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**18ARC66** 

Sixth Semester B. Arch. Degree Examination, Jan./Feb. 2023

Landscape Architecture

Max. Marks: 100

Time: 3 hrs.

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Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

(10 Marks)

Define term Landscape. Explain the need to study landscape, briefly. 1 a.

(10 Marks)

What is landscape Architecture and explain its scope in the practice. b.

- Write the difference between the following terms, 2
  - a) Natural and Manmade Landscape
  - b) Hardscape and Softscape
  - Urban and Rural Landscape c)

(20 Marks)

Modern and Contemporary Landscape style

Module-2

Explain the process or system involved in designing a landscape project, with emphasis on (20 Marks) site analysis and site inventory

What is Grading. Mention different types of grading involved in land modification. 4 a.

(10 Marks)

Explain the purpose and usage of land modification in landscape design.

(10 Marks)

Module-3

Explain Vegetation as an Element of Primary design can be utilized by Landscape architect 5 to Achieve various functions in design like, Aesthetics, Climatic, Architectural and Engineering purposes. (20 Marks)

- Explain briefly the following terminologies with relevant sketches. 6
  - i) Street furniture
- ii) Paving
- yiii) Green walls
- iv) Pergolas and Trellis.

(20 Marks)

Module-4

- Elaborate on the Historical Asian garden styles with respect to its philosophy, garden types, 7
  - i) Japanese gardens
- ii) Mughal gardens

(20 Marks)

Explain the Water/Riverfront project of any of your favorite contemporary Landscape Explain the Water/Riverfront property of your favorite contemporary Landscape architect with respect their design philosophy, conlogical sensitivity and sustainable 8 approach adopted in the chosen examples. (20 Marks)

Module-5

Design a small courtyard for a "CRECHE" of size 8m ×5m open to sky surrounded by a Design a small courtyard for a size 8m ×5m open to sky surrounded by a ground floor building on all sides, having 2.4m wide covered corndor around the courtyard. 9 ground floor building on all study and wide covered corridor around the courtyard. Provide necessary rendered plan, elevations/sections, or sketches to explain your concept

OR

Explain the design consideration involved while designing a streetscape with relevant 10 (20 Marks)

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18ARC62

# Sixth Semester B.Arch. Degree Examination, June/July 2023 Materials and Methods in Building Construction - VI

Time: 4 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, choosing one full question from each module.

- Explain how glass plays an important role in the construction industry. 1 (10 Marks)
  - Explain any 5 types of glass commonly used in building construction. (10 Marks)
- OR A shopfront in a mall has to be designed with a frameless glass door for an opening of 2 3000 × 3600mm. Assuming suitable scales, draw plan, elevation, cross sections and 2 minimum associated details for the same. (20 Marks)
- Module-2 With neat sketches, explain the various support systems the point fixed support glazing uses. 3 (20 Marks)
- OR With neat illustrations, explain any 4 types of structural glazing systems. 4 a. (10 Marks)
  - Why is aluminum preferred as a building material? Illustrate with details the common types of sun lowers seen in buildings. (10 Marks)
- Module-3 5 An artist's studio requires an opening of 3000 × 2700mm to be designed with a wooden sliding folding door design. With suitable scale, draw plan, elevation, cross-sections and any 2 details. (20 Marks)
- An architect's office requires an opening of 3000 × 2700mm to be designed with a UPVC 6 door design. Assuming suitable scales, draw plan, elevation, cross-sections and any 2 details for the same. (20 Marks)
- Module-4 Design and detail an opening of 3600mm × 2700mm for a conference room in an office 7 using aluminium sliding folding doors. Draw the construction mechanism for the same with a layout plan, elevation, cross sections and details related to the same. (20 Marks)
- Explain the working mechanism with neat sketches of a steel sliding folding door. (20 Marks) 8
- Module-5 A music studio with a recording room of size 4000 × 4500mm requires to be sound proofed 9 using appropriate sandwich panels, provide construction details with suitable sketches for the same. (20 Marks)

OR Design and detail a skylight in a terrace for an opening of size 1200 × 1500mm. Draw with suitable scale the plan, elevation, cross-sections and details for the same. (20 Marks)

on, appear to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.

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# Sixth Semester B.Arch. Degree Examination, June/July 2023 Contemporary Architecture

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

- Elaborate on the architecture features of the princely states and ONE states feature as prominent example.

  (20 Marks)
- Le Corbusier is regarded the pioneer of "Modern Architecture" in India. Justify how and also elaborate his work in India post independence era. (20 Marks)
- Describe the design approach of architect Achyut P. Kanvinde or architect Raj Rewal with help of any one of their architectural projects. (20 Marks)
- OR

  4 a. Discuss contributions of architect Lauri Baker to Contemporary Indian Architecture.
  - b. Identify the parallel trends of contemporary Indian architecture and discuss any one with an example.

    (10 Marks)

    (10 Marks)
- a. Explain the design of Smith House, Connecticut by Richard Meier.

(08 Marks)

- b. Charles Moore is regarded as a staunch follower of post-modern classicism. Write a brief note on his principles of design. Explain in detail the Piazza d'Italia, New Orleans. (12 Marks
- Why is Norman Foster Labelled as a 'High Tech' architect? Explain with one example of his work.

  (20 Marks)

7 Explain in detail the post modernist ideas and concepts. Discuss contributions of Robert Venturi with relevant examples. (20 Marks)

Spanies architect Calatrava and Renzo Piano, used the structural systems in the design to create "new form of expressionism", discuss the same with relevant examples; from their work.

(20 Marks)

9 Explain the design ideologies citing one work of the architect Daniel Leibskind or Rem Koolhas.

(20 Marks)

OR

Explain the ideas of Deconstructivism with help of examples of works of architect Zaha Hadid or Peter Eisenman. (20 Marks)