

2023-24
B.ARCH. VII SEMESTER EXAMINATION
Modern and Contemporary Architecture
ARC4170

Maximum Marks: 60

Credits: 03

Duration: 2 Hours

Answer all the questions.

Q.N	Question	M.M.
0.		
1	Describe salient features of Art Deco movement in arts and architecture. Explain architectural characteristics of Chrysler Building designed by the architect William Van Alen.	12
2	Describe "De Stijl" movement in detail and explain important features of Schroder House designed by architect Gerrit Ritveld.	12
3	a) Explain teaching concept and curriculum map of Bauhaus school. b) Explain architectural characteristics of the buildings of International Style.	6+6
4	Describe design philosophy and any two important projects of architect Eero Saarinen.	12
OR		
4'	Describe design philosophy and any two important projects of architect Oscar Niemeyer.	12
5	Explain any two of the followings:- a) Cubism b) Art Nouveau style c) Walt Disney Concert Hall designed by architect Frank Gehri d) Post Modern Architecture	6+6

2023-24

**B. ARCHITECTURE (ODD SEMESTER) EXAMINATION
CONSTRUCTION AND MATERIAL-V**

ARC 4430

Credits: 05

Duration: Two Hours

Maximum Marks: 40

*Answer all the questions.**Assume suitable data if missing.**Support your answers through neat sketches.**Labelling of Sketches is essential.*

Q.No.	Question	M.M.
1	Draft any two of the following details on a suitable scale- a) Steel Roof Truss for a span of 10m b) Plan and section of a lift including machine room. c) Beam to column and beam to beam steel connections	[10]
2	What are different types of Natural Hazards? Explain points of consideration for Earthquake resistant construction in- a) Site planning b) Building forms c) Site selection d) Planning of the building e) Foundations, flooring, walls and openings in building development.	[10]
3	What is a high-rise building? Discuss in detail the different types of steel structural systems used in interiors and exteriors of a high-rise building.	[10]
4	Draw plan, elevation and other details of a steel spiral staircase on a suitable scale.	[10]
OR		
4'	Draw a sketch of North Light truss and diagrammatic elevation of a Lattice girder. Also draw the details at the apex/ridge of North Light Truss.	

(6484)

~~2023-24~~
B.ARCH. (ODD SEMESTER) EXAMINATION
ARCHITECTURE
LANDSCAPE DESIGN
ARC4450

Maximum Marks: 40

Credits: 04

Duration: Two Hours

Assume suitable data if missing.

Q.No.	Question	M.M.
	SECTION A	
1	Sketch the construction details of (Attempt any 02)	[5X2=10]
(a)	Lily pond	
(b)	Steel trellis with glass top	
(c)	Concrete Interlocking pathway adjacent to a lawn	
2	How to select a suitable plant? (Use sketches if required)	[10]
	OR	
2'	Describe the key features of the following. (Attempt any 02)	[5X2=10]
(a)	Rajput Gardens	
(b)	Chinese Landscapes	
(c)	Roman Landscapes	
3	Explain the following briefly:	[5X2=10]
(a)	What are 3 deciduous and 2 evergreen trees that can be used in campus design and why?	
(b)	Components of Site Analysis for Landscape Design	
5	Elaborate in detail the similarities and differences between French and English gardens	[10]

2023-24
B.ARCH. END SEMESTER EXAMINATION
ARCHITECTURAL DESIGN VI
ARC4670

Maximum Marks: 40

Credits: 07

Duration: Six Hours

*Use of standards is permitted, however their supply in the examination hall is not guaranteed.
 Present the scheme through the to-scale drawn and drafted sketches.
 Neat presentation of graphics and write-ups carry additional weight-age within maximum marks.
 Concept of design shall be evaluated through viva-voice.
 Assume and mention suitable data/space/situation if missing.*

LOCK INDUSTRY

Design and present a schematic proposal for a door hardware manufacturing unit on an industrial plot of dimensions 55 mts.X 57 mts. accessed by a 30 mts. wide two-way divided road (with service roads on both sides) on its shorter side facing east in TALA NAGARI industrial sector on Ramghat Road at Aligarh. The industrial unit must have following features: -

1. Automated gated entry for staff/equipment/goods etc.
2. CMD/ owners chamber with ante - room and meeting room for 12 people and A/V presentation console.
3. Administrative unit with wash rooms etc.
4. Double heighted manufacturing shed 10mts.X 30mts (with supervisor cabin) for metal (sheet & bar) cutting/grinding/buffing operations spaces fitted with lathes and CMCs
5. 5mts.X20mts Electroplating/ lacquer and polishing/buffing unit with store.
6. Quality check, packing, billing and unit (5mtsX20mts.) with loading platform.
7. Raw material store (5mts.X20mts.) with unloading platform
8. Workers wash rooms and lockers space.
9. Canteen-kitchen for 50 people.
10. Park ,Parking(2 trucks , 4-LCV, 6 cars 12 two wheelers and 36 bicycles and motorable/pedestrian pathways
11. Step down transformer & generator and switch gear room.
12. Underground sump-pump house.

Present the plan proposal with

- a) Site plan to a suitable scale showing access road, gate, set-backs and designed built and open spaces. MM 08
- b) Schematic plan of various units with connecting corridors and links to suitable scale. MM 24
- c) One schematic section MM08
- d) The concept of layout and design shall be evaluated through a viva voce MM 08