B.Arch-VIII(R/S)-04.22-2020 Reg. No. | | | | | | | | |

C

B.Arch. Degree VIII Semester Regular/Supplementary Examination April 2022

AR 1802 PROFESSIONAL PRATICE
(*2014 Scheme*)

Time: 3 Hours Maximum Marks: 100

PART A
(Answer ***ALL*** questions)

(8 × 5 = 40)

I. Write short notes on the following:
(a) Comprehensive architectural services.
(b) Architects Act 1972.
(c) Earnest money deposit.
(d) Bill of quantities.
(e) Role of umpire in Arbitration.
(f) Kinds of arbitration.
(g) Tax planning for architects.
(h) Double entry and single entry.

PART B

(4 × 15 = 60)

II. As per COA guidelines explain architectural scale of professional charges.

OR

III. (a) What is 'professional negligence' of an architect?
(b) What are the professional liabilities of an architect?

IV. Explain tender document and tender notice. Discuss types of tenders in detail.

OR

V. What is building contract? Explain types of contract with sums and bill.

VI. Define Arbitration? What are the main advantages of setting the disputes and differences by Arbitration?

OR

VII. Explain duties and liabilities of architect, contractor and employer in detail.

VIII. Explain duties and responsibilities of principal architect while running his own office with the help of staff structure.

OR

IX. Define different system of accounting in building construction. Explain various principles and practice of management.

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B.Arch-VIII-(R/S)-04-22-2021 Reg. No. | | | | | | | | |

C

B.Arch. Degree VIII Semester Regular/Supplementary Examination April 2022

AR 1803 DISASTER PREPAREDNESS AND MANAGEMENT

(*2014 Scheme*)

Time: 3 Hours Maximum Marks: 100

PART A

(Answer **ALL** questions)

(8 × 5 = 40)

I. Write short notes of the following.

(a) Mitigation.

(b) Early warning and risk.

(c) Vulnerability and predictability of disaster.

(d) Soil erosion – prevention methods.

(e) Hazard Zonation Map.

(f) Weather forecast in preparedness for cyclone.

(g) Phases of Disaster Management.

(h) Community health and casuality management.

PART B

(4 × 15 = 60)

II. What is meant by disaster? What are its classifications? Explain in detail with example.

OR

III. What are the various types of flood? What are the causes of floods? Also explain the various effects and mitigation strategies adopted.

IV. Explain the vulnerability map of India explained with incidents of various disasters.

OR

V. Briefly explain the major disasters that occurred in your state. Also explain the main authorities related to disaster management and mitigation at National level.

VI. What is retrofitting? Explain various retrofitting techniques with the help of sketches.

OR

VII. Describe various Community preparedness measures for Disaster.

VIII. Describe various measures to be taken for Rehabilitation and Reconstruction in Post Disaster Management phase.

OR

IX. What is remote sensing and GIS? Explain the application of remote sensing and GIS in Disaster Management.

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A

B.Arch. Degree VIII Semester Regular/Supplementary Examination
April 2022

AR 1804 CONSTRUCTION MANAGEMENT

(*2014 Scheme*)

Time: 3 Hours Maximum Marks: 100

PART A

(Answer *ALL* questions)

(8 × 5 = 40)

I. Write short notes on the following:

(a) Project feasibility report.
(b) Objectives of construction management.
(c) Advantages and disadvantages of Gantt chart.
(d) Network crashing.
(e) Define 'optimistic time','pessimistic time' and 'most likely time'.
(f) Project control.
(g) Types of delays in Construction Management.
(h) Duration cost trade off.

PART B

(4 × 15 = 60)

II. Explain life cycle of a construction project. Illustrate how costs and expenditure varies during the different stages of a construction project.

OR

III. Explain time value of money. Explain in detail cost benefit analysis. When is it used? Explain with an example.

IV. Draw the network diagram and mark the critical path. Calculate the Early Start (ES), Late Start (LS), Early Finish (EF), Late Finish(LF), Total Float(TF), Free Float (FF), Independent Float (Ind Float), Interfering Float (Int Float).

Activity	A	B	C	D	E	F	G	H	I	J	K	L	M	N
Immediate predecessor	-	-	-	B	A	A	B	C,D	C,D	E	F,G,H	F,G,H	I	J,K
Duration (months)	3	4	6	3	9	1	4	5	4	3	6	3	6	9

OR

V. Explain in detail Work Breakdown Structure with an example. Describe its advantages and disadvantages.

(P.T.O.)

VI. What is resource allocation? What is the difference between resources smoothing and levelling? Describe in detail the steps involved in resource smoothing and levelling.

OR

VII. A project consists of nine activities shown below. Draw the network diagram, expected duration and variance of each activity, calculate expected project length.

Activity	1-2	1-6	2-3	2-4	3-5	4-5	6-7	5-8	7-8
t_o	1	2	2	2	7	5	5	3	8
t_m	7	5	14	5	10	5	8	3	17
t_p	13	14	26	8	19	17	29	9	32

VIII. What is project monitoring? Explain the importance of delay analysis and documentation in managing a construction project.

OR

IX. Explain the various avenues in which project management software can be used in construction management. List and explain any two construction management software that you aware of.

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A

B.Arch. Degree VIII Semester Regular/Supplementary Examination April 2022

AR 1805 (a) ENERGY EFFICIENT ARCHITECTURE

(*2014 Scheme*)

Time: 3 Hours Maximum Marks: 100

PART A

(Answer **ALL** questions)

(8 × 5 = 40)

I. Write short notes on:

(a) Energy efficient lighting

(b) Embodied energy

(c) Intelligent buildings

(d) IoT

(e) Actuator

(f) Access Control

(g) Benefits of biophilic design

(h) Nature – design – health relationship.

PART B

(4 × 15 = 60)

II. Explain how solar passive techniques in building design can be utilised to bring in energy efficiency.

OR

III. Define life cycle energy of a building. Explain it in terms of embodied energy and operational energy.

IV. What is a smart building? How does the information and communications technology (ICT) work in a smart building?

OR

V. How did smart building evolve over time? How does a smart building differ from an ordinary building?

VI. Explain how HVAC and lighting control can be achieved in a smart building.

OR

VII. How do the different building system such as voice network, power management, video surveillance and fire safety work in a smart building?

VIII. Why should be practised biophilia in building design? What benefits does it have on the human beings?

OR

IX. What are the different Biophilic Design Strategies to be adopted when designing a building along with its landscape and master plan?

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B.Arch-VIII-(R/S)-04-22-2026 Reg. No. | | | | | | | | |

C

B.Arch. Degree VIII Semester Regular/Supplementary Examination April 2022

AR 1806 (a) ARCHITECTURAL CONSERVATION
(*2014 Scheme*)

Time: 3 Hours Maximum Marks: 100

PART A
(Answer **ALL** questions)

(8 × 5 = 40)

I. (a) Write short note on INTACH.
(b) Difference between Built Heritage and Natural Heritage.
(c) Explain wooden wall in Kerala's traditional Architecture.
(d) Explain the role of conservation in defected old structures.
(e) Effect of earthquake on historic buildings.
(f) List down various natural and manmade causes for building/structure decay.
(g) Explain Restoration in Architectural conservation.
(h) What is the seven degree of Intervention in conservation?

PART B

(4 × 15 = 60)

II. Brief the Conservation Movement.

OR

III. Explain any two agencies involved in conservation

IV. Explain Traditional Building with an example from Kerala.

OR

V. Explain various building compounds of Kerala traditional Architecture.

VI. Explain various climates caused decay in traditional materials and structures.

OR

VII. Explain various natural and manmade causes for building/structure decay.

VIII. Explain 'Values' associated with historic monuments.

OR

IX. Discuss the importance of documentation in conservation. What are the various means of documenting the essence of a built heritage?

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