

Knowledge Resource & Relay Centre (KRRC)

AIKTC/KRRC/SoA/ACKN/QUES/2021-22 /

Date: 02/08/2022School: SoA-CBSGSBranch: SoASEM: VII

To,
Exam Controller,
AIKTC, New Panvel.

Dear Sir/Madam,

Received with thanks the following **Semester/Periodic** question papers from your exam cell:

Sr. No.	Subject Name	Subject Code	Format		No. of Copies
			SC	HC	
1	Architectural Building Construction	BARC 703		✓	
2	Architectural Building Services	BARC 708		✓	
3	Professional Practice	BARC 710		✓	

Note: SC – Softcopy, HC – Hardcopy

Sem. VIII – No theory papers only professional training of 16 week.

(Shaheen Ansari)
Librarian, AIKTC



Symbol of Secularism
& National Integration

ANJUMAN-I-ISLAM'S
KALSEKAR TECHNICAL CAMPUS, NEW PANVEL
School of Architecture

Approved & Recognized by: All India Council for Technical Education and Council of Architecture, New Delhi

Directorate of Technical Education, Govt. of Maharashtra Affiliated to: University of Mumbai

THIRD YEAR B.ARCH EXAMINATION 2021-22

Subject: Building Construction-(SEMESTER-VII) - OPTION 1

Max Marks: 50

Date: 20/04/2022

Duration: 3 Hrs. (10.00A.M to 1.00P.M)

Note – Question 1 & 2 IS CUMPULSORY, Attempt any 2 question s out of question 3, 4 & 5

Q1) MCQ questions (2 marks each).....10 Marks

I. Which one of these is not a typology of retaining wall?

- a. Precast
- b. Buttressed
- c. Counter fort
- d. Compound wall ✓
- e. Gravity
- f. Cantilever

II. The material retained or supported by a retaining wall is technically called?

- a. Angle of repose
- b. Backfill ✓
- c. Earth Load
- d. Gravel
- e. Retained Material

III. Depth of friction pile depends on which capacity of the soil?

- a. Water bearing capacity
- b. Load bearing capacity ✓
- c. Soil bearing Capacity
- d. Friction bearing capacity
- e. None of the above

IV. Select procedure of constructing load bearing pile foundation.

- a. Driven with mandrel shell cased concrete pile
- b. Compacted without shell concrete pile
- c. Helical screw drilled uncased concrete pile
- d. Open end metal pipe pile foundation
- e. All of the options ✓

V. Aligned in a series pile foundation forming a retaining structure is called?

- a. Caisson ✓
- b. Kaysson
- c. Kaison
- d. Cashion
- e. Caiston
- f. None of the options

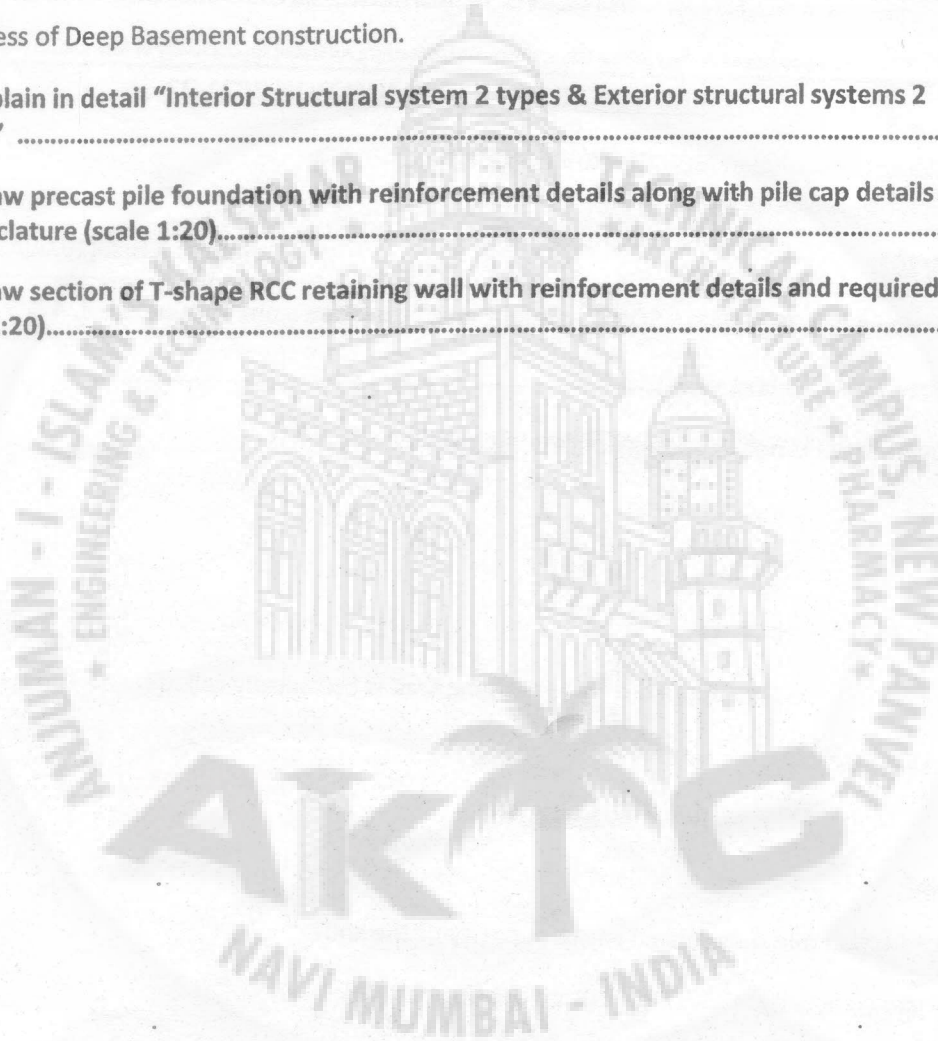
Q2. Short notes any Four (sketches are compulsory)(20 marks)

- A. Failure in skyscraper structural system
- B. Types & categories of Deep foundation
- C. Diaphragm wall & its types
- D. Types of structural loads affecting high rise building design.
- E. Process of Deep Basement construction.

Q3. Explain in detail "Interior Structural system 2 types & Exterior structural systems 2 types"(10 marks)

Q4. Draw precast pile foundation with reinforcement details along with pile cap details with appropriate nomenclature (scale 1:20).....(10 marks)

Q5. Draw section of T-shape RCC retaining wall with reinforcement details and required nomenclature (scale 1:20).....(10 marks)



FOURTH YEAR B.ARCH - SEM VII ATKT EXAMINATION
APRIL 2022

Subject - Architectural Building Services 5

Max Marks - 50

Date - 19/04/2022

Duration - 2hrs.

- Read questions carefully and write down with neat drawn sketches.
 - Proper sketches will carry more weight-age of marks.
 - Answer according to the marks allotted.
- A. What are the different types of fan that are commonly used in a ventilation system? Explain there features with neat diagram. 05M
- B. Briefly describe with sketches all the different types of air conditioners used in any building typology. 10M
- C. Explain the various components of centralize air conditioning system. 10M
- D. Explain the plenum-exhaust system of mechanical ventilation. Explain the role of the different components in the system. 10M
- E. Write brief notes on any 3 15M
- a) Factor affecting thermal comfort.
 - b) Cooling tower in air conditioning system.
 - c) Packaged air conditioning system.
 - d) Smoke Dampers



FOURTH YEAR B.ARCH - SEM VII ATKT EXAMINATION APRIL 2022

Subject - **PROFESSIONAL PRACTICE I**

Max Marks - 50

Date -19/04/2021

Duration - 2 hrs.

ALL QUESTIONS ARE COMPULSARY

- Q1] WHAT IS A CONTRACT EXPLAIN TYPES OF CONTRACTS AND DESCRIBE IN DETAIL any FOUR (15 MARKS)**
- a. SECURITY DEPOSIT
 - b. LUM SUM CONTRACT
 - c. JOINT VENTURE CONTRACT
 - d. TURN-KEY CONTRACT
 - e. BOT SYSTEM

OR

WHAT DOES AN ARCHITECT SHOULD CONSIDER WHILE SETTING UP HIS OWN OFFICE AND ABOUT ITS MANAGEMENT. (15 MARKS)

- Q2] ANSWER THE FOLLOWING**
- a. WHAT DO YOU MEAN BY THE TERM TENDER (05 MARKS)
 - b. WHAT ARE THE REQUIREMENTS TO BE MET WITH BEFORE TENDERS ARE INVITED FOR CONSTRUCTION WORK? (05 MARKS)
 - c. TYPES OF TENDER (05 MARKS)

OR

DESCRIBE IN MIN 10 POINTS PROFESSIONAL ROLE, RESPONSIBILITIES, DUTIES AND LIABILITIES OF AN ARCHITECT. (15 MARKS)

- Q3] WRITE SHORT NOTES ON (10 MARKS)**
- a. EARNEST MONEY DEPOSIT
 - b. LIQUIDATED DAMAGES

- Q4] WHAT ARE INFORMATION TO BE GIVEN IN A TENDER NOTICE EXPLAIN (10 MARKS)**

OR

HOW ARCHITECT CAN BE HELPFUL IN COST CUTTING OF THE PROJECT ? (10 MARKS)