



ANJUMAN-I-ISLAM'S

**AKTC KALSEKAR TECHNICAL CAMPUS**

INNOVATIVE TEACHING EXUBERANT LEARNING

School of Architecture

School of Engineering & Technology

School of Pharmacy

*Knowledge Resource & Relay Centre (KRRC)*

AIKTC/KRRC/SoA/ACKN/QUES/2022-23 /

Date: 28/01/23

School: SoA-CBSGS

Branch: SoA

SEM: 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



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SCHOOL OF ARCHITECTURE  
KALSEKAR TECHNICAL CAMPUS, NEW PANVEL

FOURTH YEAR B.ARCH - SEM VII ~~ATKT~~ or  
REGULAR EXAMINATION OCTOBER 2022

Subject - Architectural Building Construction

Max Marks - 50

Date - 20/10/2022

Duration - 3hrs.

Notes:

- Question 1 is compulsory
- Attempt any 3 Questions from Question no 2 to Question no 8.
- Support all answers with neat sketches.
- Question one carries 20 marks and Question 2,3,4,5,6 & 7 carry 10 marks each.

Q.3. Describe in detail the failures of the retaining wall with sketches. (10 Marks)

Q.4. Describe in detail Interior structural system types and Exterior Structural system types with sketches. (10 Marks)

Q.5. Describe Construction detail of High rise structures and structural concerns in High rise building (10 Marks)

Q.6. Write in detail about the different types of formworks and its methods and techniques used in the construction of High rise buildings with sketches. (10 Marks)

- a. Table Form
- b. Vertical Panel system
- c. Jump form
- d. Tunnel form.

Q.7. What are the different types of criteria for foundation selection? What are the basic requirements of safe foundation? (10 Marks)





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**Date** - 20/10/2022

**Duration** - 3hrs.

**Notes:**

- Question 1 is compulsory
- Attempt any 3 Questions from Question no 2 to Question no 7.
- Support all answers with neat sketches.
- Question one carries 20 marks and Question 2,3,4,5,6 & 7 carry 10 marks each.

**Q.1.** Design Pile Foundation for the basement of size 50Mts X 45 Mts with two storeys below the Ground level. Each floor has a height of 4Mts. The height of the pile can be considered on an individual basis. **(20 Marks)**

Details to be shown:

- a) Reinforcement details of the Pile and the Pile Cap 1:20.
- b) Plan of group type of Piles (whether 3/4/5).
- c) Key plan 1:100.

OR

**Q.1.** Design a Precast Diaphragm wall for a Basement of size 45Mts x 30 Mts with two storeys below the ground level. Each floor has a height of 4Mts. The depth of the Diaphragm wall can be considered on an individual basis. Drawings should have detailed nomenclature and dimensions.

Key plan 1:100

Detail section 1:20

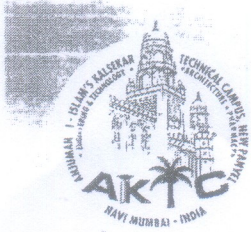
**(10 Marks)**

**Q.2.** Write Short notes with sketches (Attempt Any 4)

- a. Types of Cranes used in High rise Construction.
- b. Role of tremie pie in the Slurry wall construction.
- c. Secant piling.
- d. Friction Piles and its construction process.
- e. Mivan Formwork.







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**FOURTH YEAR B.ARCH - SEM VII REGULAR EXAMINATION  
OCTOBER 2022**

**Subject - Architectural Building Services**

**Max Marks - 50**

**Date - 17/10/2022**

**Duration - 2hrs.**

**Read questions carefully and write down with neat drawn sketches.**

**Proper sketches will carry more weightage of marks.**

**Answer according to the marks allotted.**

**Q.1 & Q.2 are compulsory, Attempt any 2 out of remaining.**

**Q. 1** Explain refrigeration cycle of an Air Conditioning System and its component with a neat diagram, and explain the working of a Chilled Water based Central Air Conditioning System with neat sketches. (15M)

**Q. 2** What is a mechanical ventilation system and different types of Fans used in a ventilation system. (15M)

**Q. 3** What is Thermal Comfort ? list down the factor's affecting thermal comfort? (10M)

**Q .4** Write brief note on the following (any three) (10M)

- a) AC ducting and its insulation
- b) Dampers
- c) Different types of filters used in mechanical ventilation
- d) Package Air conditioning System

**Q.5** Explain the working and features of Split air condition system. Support your answer with neat diagrams (10M)





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Approved by: All India Council for Technical Education, Council of Architecture, Pharmacy Council of India New Delhi.  
Recognised by: Directorate of Technical Education, Govt. of Maharashtra, Affiliated to: University of Mumbai

SCHOOL OF ENGINEERING & TECHNOLOGY

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SCHOOL OF ARCHITECTURE

**FOURTH YEAR B.ARCH - SEM VII REGULAR EXAMINATION  
OCTOBER 2022**

**Subject – professional Practice 1**

**Max Marks - 50**

**Date - 18/10/2022**

**Duration - 2hrs.**

**Read questions carefully**

**Answer according to the marks allotted.**

**All questions are compulsory,**

- Q1] Answer the following
- a. What do you mean by the term tender (04 marks)
  - b. What are the requirements to be met with before tenders are invited for construction work? (04 marks)
  - c. Types of tender (04 marks)
- Q2] What are information to be given in a tender notice explain (10 marks)
- Q3] Write short notes (any 6) (18 marks)
- a. Earnest money deposit
  - b. Liquidated damages
  - c. Security deposit
  - d. Architect's Registration Act 1972
  - e. Defects liability period
  - f. Retention money
  - g. Joint venture contract
  - h. Turn-key contract
  - i. Lum sum contract
  - j. Bot system
- Q4] What is a contract explain in detail and compare with minimum 4 points between contract and agreement (10 marks)

