

SEM VII  
P.P.



Symbol of Secularism  
& National Integration

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

*Approved & Recognised 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*

**FOURTH YEAR B.ARCH- SEM VII EXAMINATION APRIL 2016**

Subject: Professional Practice

Max Marks:50

Date:05/04/2016

Duration:2 Hrs

\*ATTEMPT ANY 5 QUESTIONS.

\*ALL QUESTIONS CARRY EQUAL MARKS.

Q1. Write short notes on the following:

10 Marks

- a) Clerk of Works
- b) Interim and Final Certificates

Q2. What are the different types of Building contracts? Explain any one.

10 Marks

Q3. Explain the importance of Bill of Quantities and Specifications in a Contract document.

10 Marks

Q4. Write short notes on the following:

10 Marks

- a) Earnest Money
- b) Security Deposit

Q5. What are the types of architectural practices that an architect can choose after acquiring the degree?

10 Marks

Q6. a)What are the responsibilities of an architect towards his fellow architects? 10 Marks

- b) Why is Architecture a profession and not a trade or business?

Q7. Explain the following:

10 Marks

- a) Council of Architecture
- b) Performance Bonds

SEM-VII  
A.B.C.M.



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**FOURTH YEAR B.ARCH- SEM VII EXAMINATION APRIL 2016**

Subject: Architectural Building Construction

Max Marks: 50

Date: 09/04/2016

Duration: 3 Hrs

**NOTES:**

- Question No. 1 and 2 are **compulsory**.
- Attempt **any 2** from Ques. No. 3,4 & 5.
- Draw neat and relevant sketches wherever necessary.

1. Describe the process of the RCC High-rise Structure with the stages in short. Explain the various types of the structural systems, its advantages and applications depending on the form and function of the building. (15)

**OR**

Describe pile foundation – its types, advantages and applications. Draw Plan and Section of a pile cap with three piles bearing a column of diameter 600 mm. (15)

2. Write short notes with sketches (**Attempt Any 4**) (20)

- a. Auto Climbing Formwork
- b. Concrete Boom Placers
- c. Types of Cranes used in High rise construction
- d. Mivan Formwork
- e. Precast pile and its construction process
- f. Batching plant and its advantages in construction of highrise.

3. a. What are multilevel basements? Describe the process of the construction of multilevel basements. (10)

b. Sketch a labeled section of a retaining wall. (5)

4. a. Explain various types of loads on a high rise structures. (10)

b. Give constructional details of a waffle slab. (5)

5 a. Explain Precast construction in concrete and its applications in construction industry. (10)

b. Explain the end bearing pile and friction pile. (5)



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आर्किटेक्चर-१-इंटरमीडिएट

कासबेकार जेष्ठेणाले एणार्चिटेक्चर, गणेशपूर

School of Architecture

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SEM-VII  
SERVICES

## FOURTH YEAR B.ARCH- SEM VII EXAMINATION APRIL 2016

Subject: Architectural Building services

Max Marks: 50

Date: 06/04/2016

Duration: 2 Hrs

### Notes:

- All questions are compulsory.
- Numbers on the right hand side indicate marks.
- Draw neat and proportionate sketches wherever required.

Q1. What are the different types of fans that are commonly used in a ventilation system?

Explain their features with neat diagrams

{05}

Q2. a. Write a short note on 'Cooling tower' in an Air conditioning system

{05}

OR

Q2. b. What are the features of a Window air conditioning system?

Q3.a. Draw a schematic section of a central air conditioning system showing Chiller plant room, AHUS, ducting and all the other relevant components.

{10}

OR

Q3.b. What is a packaged air conditioning system?

Mention its types and ways of installation

Q4. Explain the plenum - exhaust system of mechanical ventilation.

Explain the role of different components in the system

{10}

Q5. Design an air conditioning system for an office block as shown below.

Requirements: Duct layout showing all the components of the system. Layout should be complete with duct sizes, Supply and return air diffuser locations.

(Attach this page with the answer book)

{20}

