



Knowledge Resource & Relay Centre (KRRC)

AIKTC/KRRC/SoA/ACKN/QUES/ 2018/19/

Date: 25/07/2019

School: SoA-CBSGS

Branch: SoA

SEM: VII

To,
 Exam Controller,
 AIKTC, New Panvel.

Dear Sir/Madam,

Received with thanks the following ^(ATKT) ~~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		✓	02
2	Architectural Building Services	BARC 708		✓	02
3	Professional Practice	BARC 710		✓	02

Note: SC – Softcopy, HC – Hardcopy

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

(Shaheen Ansari)
 Librarian, AIKTC



ANJUMAN-I-ISLAM'S

KALSEKAR TECHNICAL CAMPUS, NEW PANVEL

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

SCHOOL OF PHARMACY

SCHOOL OF ARCHITECTURE

B.ARCH. FOURTH YEAR- SEMESTER VII (APRIL 2019-ATKT EXAM)

SUBJECT: ARCHITECTURAL BUILDING CONSTRUCTION

Duration: 3 hours

TOTAL MARKS: 50 MARKS

Date: 18/04/2019

Notes:

- Numbers on the right hand side indicate marks for each question.
- Support all answers with neat sketches and nomenclature.

Q1. Design Pile Foundation for a Basement of size 30Mtrs X 45Mtrs with two storeys below the ground level. Each floor has a height of 4Mtrs. Height of the pile can be considered on individual basis.....(20 marks)

Details to be shown: (Scale-1:20)

- a. Reinforcement details of Pile and Pile Cap
- b. Plan of group type of piles(weather 3/4/5)
- c. Pile Cap details.
- d. Details of foundation above Pile Cap.

OR

Q1. Draft any one type of construction technology used in building a steel High Rise building. Give details wherever necessary. Data can be considered on individual basis. Write and sketch in detail about the different types of structural typology/system used in construction of a high rise steel building. Give sketches wherever necessary.....(20 marks)

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

- A. Effects of earthquake in on R.C.C structures.
- B. Auto climbing form work.
- C. Concrete Boom Placers
- D. Types of cranes used in High rise construction
- E. Diaphragm walls
- F. Sheet Piling

Q3. Explain various types of loads on a High rise structures..... (10 marks)

OR

Q3. Give Constructional Details of Precast Diaphragm Wall. (Scale-1:20)..... (10 marks)

The End

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FOURTH YEAR B.ARCH - SEM VII EXAMINATION APRIL - 2019

Subject: Architectural Building Services

Max Marks: 50

Date: 15-04-2019

Duration 2 Hrs.

Notes:

- Question no 1 & 2 are compulsory, attempt any two from remaining.
- Numbers on the right hand side indicate marks.
- Draw neat & proportionate sketches wherever required.

- Q1. Explain the refrigeration cycle of an air conditioning system & its components with a neat diagram? (10)
- Q2. Explain the parameters on which the heat load sheet for a particular building type is calculated? (10)
- Q3. Write brief notes on any three:- (15)
- a) Factors affecting thermal comfort.
 - b) AHU
 - c) Cooling tower in air conditioning system.
 - d) Packaged air conditioning system.
- Q4. Briefly describe with sketches all the different types of air conditioners used in any building typology? (15)
- Q5. Design of mechanical ventilation system. (15)

A plot size of 100 x 65 mts with a office building with basement level and having adjoining 25mts wide road on longer side, & site margins of 10 mts on all sides. Design a basement parking layout with mechanical ventilation system for the same, showing relevant structural details & air conditioning details of plenum, ducts, diffusers & exhaust room. Consider plinth height of 1.0 mts & floor height of basement s 4.5 mts. With max. beam depth of 600 mm.

Drawing requirement - Plan & section at appropriate scale.

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**B.ARCH. FOURTH YEAR- SEMESTER VII
APRIL 2019 EXAM**

Subject: **Professional Practice-1**

Maximum Marks- 50

Date: 16/04/2019

DURATION: 2 hours

Notes:

- All Questions are compulsory.
- Numbers on the right hand side indicate marks for each question.
- Start answer of every new question on a new page.
- Assume suitable data wherever necessary.

Q 1) What is the Architect's Act 1972- Write in Detail. (10)

OR

Write in brief the Architects role in various stages of building construction.

Q 2) What is Tender and explain any two types. (10)

OR

How do you practice as an Architect in a mega cities like Mumbai.

Q 3) What are the various types of architectural competitions. (10)

Explain each in brief.

OR

Write briefly on code of ethics as prescribed by the Council of Architecture.

Q 4) What are the major criteria of termination of contract. (10)

Explain each with example.

Q 5) Write short notes- (Any 3) (10)

Security deposit
Retention Money
Architectural Copyright
Demolition Tender
Labour Tender

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