



Knowledge Resource & Relay Centre (KRRC)

AIKTC/KRRC/SoA/ACKN/QUES/2019-20 /

Date: _____

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		✓	02
2	Architectural Building Services	BARC 708		✓	02
3	Professional Practice - I	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 PANVELApproved by: All India Council for Technical Education, Council of Architecture, Pharmacy Council of India New Delhi,
Recognized 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 (OCTOBER 2019-20 REGULAR EXAM)**Subject: Architectural Building Construction****Duration: 3hours****Total Marks: 50 MARKS****Date: 25-10-2019****NOTE:**

1. Question no.1 is compulsory
2. Attempt any 3 from the remaining 7
3. Draw neat sketches wherever necessary

QUESTIONS

1. Design a Basement in plan and draw the necessary phases of construction for the given Park and Ride building designed for ground and first floor. The site is in Riyadh and design the vehicular circulation accordingly as per given site plan. Primary wind direction in a year on site is from North and varies through the year from north east to south east. The foundation to be used is Pile foundation. Pile Diameter measurements to be used will be 450mm. Column sizes 300mm x 300mm & 300mm x 600mm. Draw proportionate sketches for the following criteria:
 - a. Phases of excavation
 - b. Sections along compound wall indicating type of shoring, retaining wall/diaphragm wall and Pile cap.
 - c. Reinforcement in plan and section of Pile cap design with column detail.
 - d. Basement Raft-Pile foundation detail
 - e. Location of Underground water tank (UGWT)
 - f. Mechanical Ventilation system.

(Compulsory question)

20 Marks
2. Explain Secant Pile Wall Construction with phases of construction with sketches 10 Marks
3. Elaborate types of Piles. 10 Marks
4. Explain Ground Anchor and its pros and cons with sketches 10 Marks
5. Explain Sheet Pile Wall Construction with phases of construction with Sketches 10 Marks
6. Describe Basement Construction: Any 2 10 Marks
 - a. Retaining Wall and Raft Basements
 - b. Box and Cellular Raft Basements
 - c. Piled Basements
7. Explain Diaphragm Wall Construction and phases of construction with Sketches 10 Marks
8. Explain Mastic Asphalt Tanking and its types with neat sketches 10 Marks

End of Paper**Innovative Teaching - Exuberant Learning**

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B.ARCH. FOURTH YEAR- SEMESTER-7, OCTOBER 2019

SUBJECT: Arch. Building Services

Duration: 2 hours

TOTAL MARKS: 50

Date: 23/10/2019

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

- Q1. Write brief Notes on following: {10}
- a. Strategy for noise suppression in ductwork
 - b. Compare: Ducted Plenum-Exhaust System of Mechanical Ventilation vs Jet Fan based System of Mechanical Ventilation
- Q2. An institutional building uses a centralized air conditioning system which consist of a water cooled chiller and AHUs. Describe the system with the help of schematic diagram and explain various components of the system. {10}
- Q3. A) Draw a schematic diagram of refrigeration cycle of an Air conditioning system.
B) Explain the purpose and working of smoke damper. {10}
- Q4. What is a VAV system? Explain its working by comparing it with a CAV system. {10}
- Q5. Explain various filters used in mechanical ventilation system. {10}
- Q6. What is thermal comfort? Write in detail about various factors of thermal comfort. {10}

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Subject – Professional practice – I
Maximum Marks – 50

Semester - 7

Date – 22/10/2019,

Time – 2 Hours.

Notes – 1) 4th Question is Compulsory 2) Attempt Any 2 From remaining 3) Start Answer of New Question on a New page

QUESTION - I (any – 2)

16 Marks

- [1] How do you practice as architect in mega city like Mumbai ?
- [2] What is the role of relation between owner & Architect when processer is going on with attachment with contractor also justify.
- [3] What type of tender document nature is fit for railway department, as well as P.W.D. Here justify.

QUESTION - II (any – 2)

16 Marks

- [1] What are the main point responsible for terminated of contract with example.
- [2] How Architect, can be helpful in cast cutting of the projects.
- [3] What you understand by tender and what is rate of relation between, owner & architect when processer in going on in invitation processer.

QUESTION – III Write Short Notes (any – 4)

16 Marks

- [1] Retention Money, [2] Item Rate Contract, [3] Architect Act - 1972, [4] Labor Tender,
- [5] Architect Copy Writes.

QUESTION - IV (any – 9)

18 Marks

Correct the sentence, or fill up the Blank or Answer in 2 to 3 lines.

- [1] Rera (Act) effective form year ----- and not implementation in how many state of India
- [2] In year of 1974 Architect Act came in force and its second name is ----- act.
- [3] "Rera" (Act) why necessary ----- and what is main aspect and what is full form of Rera.
- [4] What are the main point covered in tender documents.
- [5] What is name of fund, when in Emergency contraction can distribution necessary amount to give to all labours.
- [6] Give Atleast, 4 Nos. factors which are depends for life of a buildings.
- [7] Temporary and semi permanent structure can be remove or demolish by component authorities.
- [8] In which type of contracts we came maintain Quality of work in construction.
- [9] Unit price contects is also knows its ----- raite contract
- [10] What is the name of deposit ----- which is return after the O.C. of running project

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