



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

 Date: 25/07/2019

 SEM: V

 School: SoA-CBSGS

 Branch: SoA

 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 5			—	—
2	Theory & Design of Structures 5			✓	02
3	Architectural Building Services 3			✓	02
4	Humanities			✓	02
5	Architectural Representation & Detailing			—	—
6	Architectural Theory			—	—

Note: SC - Softcopy, HC - Hardcopy

 (Shaheen Ansari)
 Librarian, AIKTC



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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

THIRD YEAR B.ARCH - SEM V (APRIL 2018-19 ATKT EXAM)

SUBJECT: THEORY AND DESIGN OF STRUCTURES V

Duration: 2 hours

TOTAL MARKS: 50

Date: 22/04/2019

Notes:

- 1) Question No 1 is compulsory.
- 2) From question no 2, 3, 4 - Attempt any two questions.
- 3) Assume $f_y = 260$ MPa, $E = 2 \times 10^5$ MPa.
- 4) Use of non-programmable calculator, steel table and extracts of IS 800 is allowed.
- 5) Assume additional data wherever necessary, and specify the same.

Q1) Attempt any four

(20M)

- i. Sketch slab & gusset base foundation with plan and section details.
- i. What are individual built up steel section and sketch different types of it
- ii. Explain different types of bolted connections with sketches.
- ii. Explain different types of failures in connections with sketches
- iii. Explain different types of trusses and their uses with proper sketches

Q2) Design steel column for centrally loaded 1100 kN load for span 3.5 m restrained in position as well as direction at one end and restrained in position only at other end.

(15M)

Q3) Calculate safe load for laterally unrestrained steel beam ISHB 350 @ 67.4 kg/m of span 4 m.

(15M)

Q4) Compute safe load for tension member, ISA 75 x 75 x 8 placed side by side doubly riveted of diameter 16 mm.

(15M)

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T.Y.B.ARCH, SEM-5, APRIL 2019

SUBJECT: Arch. Building Services

Duration: 2 hours

TOTAL MARKS: 50

Date: 24/04/2019

- Question no.1 is compulsory, attempt any 3 from remaining.
- Numbers on the right hand side indicate marks.
- Draw neat and proportionate sketches wherever required.

- Q1. Explain the following in brief: (any four) (20)
- a. MCB, RCCB and ELCB
 - b. Explain the formula for lighting calculation by Lumen method.
 - c. Any typical detail of an acoustical partition
 - d. Echo as an acoustical defect
 - e. Earthing
- Q2. What are the possible behaviors of a sound wave, upon encountering any object or surface? {10}
- Q3. Explain Reverberation. What is reverberation time? How is it calculated? {10}
- Q4. Explain following: {10}
- a. Types of wiring systems and types of wires
 - b. What an SLD (Single Line diagram) represents in electrical drawings
- Q5. An artificial lighting system has to be designed for a class room of size 10m x 5m, with a height of 3.5 mts. Use LED light fixtures of suitable wattage. {10}
- Required Lux level: 300 Lumen / sq.mt
- Assume Utility and Maintenance factors as 0.8
- Draw a sketch plan & section showing lighting arrangement in the room along with other necessary electrical appliances (FAN), looping, Switch board locations etc.

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THIRD YEAR SEM V B.ARCH ATKT EXAMINATION APRIL 2018-19

Subject: Humanities
25.04.2019

Max Marks: 50
Duration: 2 Hrs.

Note

Support your answers with sketches wherever necessary.

Q.1 Discuss the relationship between typologies of buildings and intentions of rulers through examples from the colonial period of India

Or

How did industrial revolution influence the idea of Home as a machine..... 10

Q.2. Discuss architects and their works which shaped the face of independent India.

Discuss comparison of evolution of various architectural styles in Europe and their behaviour in India. 15

Or

Discuss Art deco style and neoclassical style of architecture, discuss with examples 7

Discuss Indosarcenic and gothic revival style of architecture with examples.....8

Q.3 Discuss the five principles of architecture by Le Corbusier with the examples.

Or

What are the criteria's for listing of heritage buildings? Discuss the grading of heritage buildings.

.....10

Q.4 Discuss the planning and development of Bombay..... 15

Consider the design and geographical setting of the ports, Fort and the railway line at Bombay. Also consider the impact of various events and how these events affect the development of Bombay.

OR

Q.4 Discuss town planning of Pudducherry with appropriate sketches.....6

Exemplify three styles of architecture at Puddicherry.9

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