

School of Engineering & Technology

KALSEKAR TECHNICAL CAMPUS

School of Pharmacy

Knowledge Resource	&	Relay	Centre	(KRRC)
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Knowleage Resource &	Relay Centre (KRRC)
AIKTC/KRRC/SoA/ACKN/QUES/ School: SoA-CBSGS Branch: S	Date: oA
To, Exam Controller, AIKTC, New Panvel.	
Dear Sir/Madam, Received with thanks the following Semester/P Sr. Subject Name	eriodic question papers from your exam cell:

Sr. No.	Subject Name	Subject Code	Format		No. of
			SC	HC	Copies
1	Architectural Building Construction & Materials			V	02
2	Theory & Design of Structures II			~	02
3	Humanities			~	02
4	Environmental Studies				
	/				

Note: SC - Softcopy, HC - Hardcopy

(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. SECOND YEAR- SEMESTER II (OCTOBER 2018 ATKT EXAM)

SUBJECT: ARCHITECTURAL BUILDING CONSTRUCTION TOTAL MARKS: 70

Duration: 3 hours Date: 3 1/10/2018

Notes:

- Answer five questions from the given seven options.
- Numbers on the right hand side indicate marks for each question.
- Support all answers with neat sketches.

1. Draft an Segmental Arch OR Semi-circular Arch. Span- 10 m at Scale of 1:1010 marks. Explain in terms of
I. Possible Materials.
II. Components of Arches.
2. What are Lintels? Explain Components and Types of Lintels
3. Explain in detail the construction of an Arch with Any 1 example
4. What is Specification? Explain the necessity of Specifications
5. Explain in detail on how to write the Specifications?
6. Explain with sketches on how to choose a material palette for a building which is to be designed in
Assam OR Goa OR Jaipur
With respect to
1. Properties
2. Climate
3. Advantages
4. Disadvantages
To marks.
7. Define and Explain with examples what are Envelopes and Cladding in architectural context to a
building05 marks.
OS Marks.
8. Explain with help of sketches
Random Rubble Masonry and its types and Ashlar Rubble Masonry05 marks.
Random Rubble Masonry and its types and Asmar Rubble Masonry05 marks.
9. Define and explain the difference between Cement and Concrete?
What is Curing?
what is curing:usmarks.
10. What are Load Bearing Structures and Framed Structures?
Write the Advantages and Disadvantages for the same
To marks.
11. Explain the following Materials with Properties, Advantages and Disadvantages
1. Timber 2. Stone 3. Mud 4. R.C.C. 5. Steel
10 marks.

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B.ARCH. THIRD YEAR- SEMESTER 2 (OCTOBER 2018-19 EXAMINATION)

SUBJECT: THEORY AND DESIGN OF STRUCTURES II

Duration: 2 hours

TOTAL MARKS: 50

Date: 29/10/2018

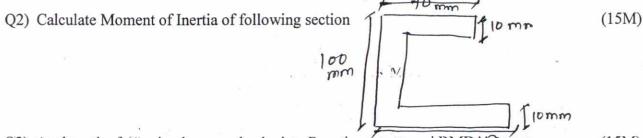
Notes:

- 1) Question No 1 is compulsory.
- 2) From question no 2, 3, 4 Attempt any two questions.
- 3) Use of non-programmable calculator is allowed.
- 4) Assume additional data and draw sketches wherever necessary, and specify the same.

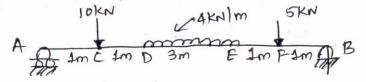
Q1) Attempt any four

(20M)

- i. Explain Poisson's Ratio, Modulus of Rigidity and Bulk and Julus
- ii. What is Simple Bending Theory with example
- iii. Explain different types of Stresses
- iv. What are Centre of Gravity and Centroid of a body.
- v. Give SI units of Shear Force, Bending Moment, Moment of Inertia, Centre of Gravity & Strain.



Q3) Analyse the following beam and calculate Reactions, 2. 2 and BMD 150 mm (15M)



Q4) Draw FBD, SFD and BMD of the following:

(15M)

a) Amonda

p) Jum

c) 4

d) T T



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SEM II B.ARCH EXAMINATION OCTOBER 2018 (A.T.K.T.)

Subject: Humanities

Max Marks: 50

Date: 30/10/2018

Duration: 2 Hrs.

Note

Answer any five.

Each Answer carries 10 Marks.

Support your answers with sketches wherever necessary.

- Q.1 People of Indus valley civilization were highly sophisticated and having knowledge about all spheres of life. Support the statement in detail.
- Q.2 How geographical, political, social and cultural factors are responsible for shaping any civilization? Elaborate with appropriate examples wherever necessary.
- Q.3. Write short note on the following: (Any 2)
- a. Aqua Duct
- b. Chaitya hall
- c. Mastaba
- d. Sumerian period
- Q.4. Write about contribution of Vedic culture in Architecture.
- Q.5 Write briefly on Roman Senate.
- Q.6 Draw in detail the five Classical Orders of Architecture.
- Q.7.Draw and explain the salient features that distinguish the Dravidian style temples from Nagara style temples.
- Q.8.Draw and name any three types of ancient Greek temple plans. Also what is the plan typology of Parthenon, Athens?

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