



ANJUMAN-E-ISLAM'S

AIKTC KALSEKAR TECHNICAL CAMPUS

INNOVATIVE TEACHING · EXUBERANT LEARNING

School of Architecture

School of Engineering & Technology

School of Pharmacy

Knowledge Resource & Relay Centre (KRRC)

AIKTC/KRRC/SoA/ACKN/QUES/ /

Date: _____

School: SoA-CBSGS

Branch: SoA

SEM: I

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 & Materials			✓	02
2	Theory & Design of Structures			✓	02
3	Humanities			✓	02
4	Environmental Studies				

Note: SC – Softcopy, HC - Hardcopy

(Shaheen Ansari)
Librarian, AIKTC



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Approved 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

FIRST YEAR B.ARCH- SEM I EXAMINATION NOVEMBER 2018

Subject: Architectural Building Construction

Max Marks: 70

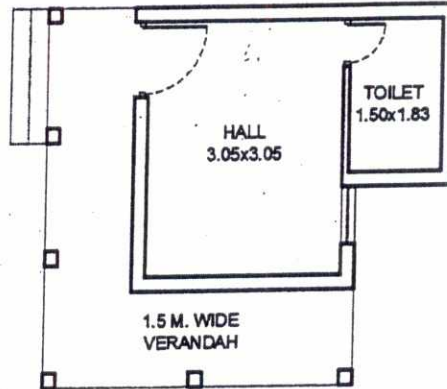
Date: 26/11/2018

Duration: 3 Hrs

Q.1 and Q.3 are compulsory, Attempt any 4 out of remaining.

Draw proportionate sketches wherever required.

- Q1. A small hall along with toilet block needs to be constructed in 1Bk. thick load bearing construction.



Draw plans of two consecutive courses in any type of bond.

10M

Also give section through plinth level till foundation.

10M

- Q2. Explain the following with the help of sketches(ANY 5)

10M

- Header face
- Lap
- Stretcher face
- Course
- Frog
- Arris
- Perpend



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Q3. Explain the following building materials with reference to their use in current building construction industry. (ANY 2) 10M

- A. Any two types of stones
- B. Glass
- C. Concrete

Q4. Draw 1Bk. thick wall in header bond. 10M

OR

Draw 1/2Bk. thick wall in stretcher bond.

Q5. Explain the following terminologies with the help of sketches (ANY5) 10M

- A. Mitred closure
- B. King closure
- C. Quarter bat
- D. Bevelled closure
- E. Bat
- F. Bevelled bat small

Q6. Explain differential aspects in load bearing and frame construction.
Draw appropriate sketches. 10M

Q7. Explain in brief with sketches the following building elements (ANY 2) 10M

- A. Ridge
- B. Parapet wall
- C. Rafters or Spars.
- D. Jamb



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B.ARCH. FIRST YEAR- SEMESTER 1 (NOVEMBER 2018-19 EXAMINATION)

SUBJECT: THEORY AND DESIGN OF STRUCTURES I

Duration: 2 hours

TOTAL MARKS: 50

Date: 27/11/2018

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

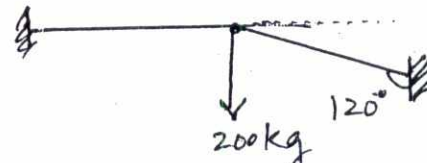
(20M)

- i. Why Structures don't fall? explain with an example.
- ii. Explain Principle of Transmissibility of Force with an example.
- iii. Explain different types of Trusses, their utility & nomenclature.
- iv. What are Space Forces and its different types of Support Systems?
- v. What are Moment, Couple and Varignon's Theorem?

Q2) a) What is Lami's Theorem? Explain its application with an example

(5M)

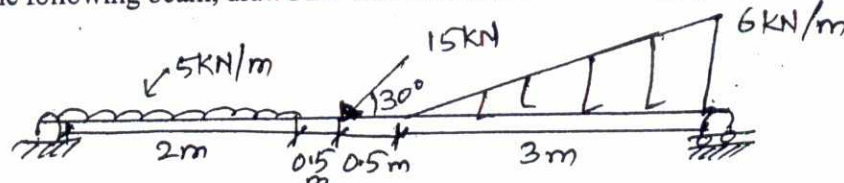
b) Find out tension in each of the string as shown:



(10M)

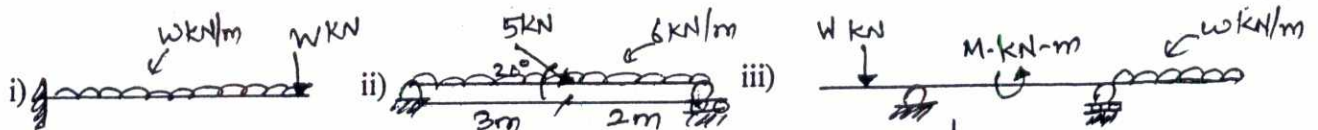
Q3) Analyse the following beam, draw FBD and Calculate Reactions applying COE:

(15M)

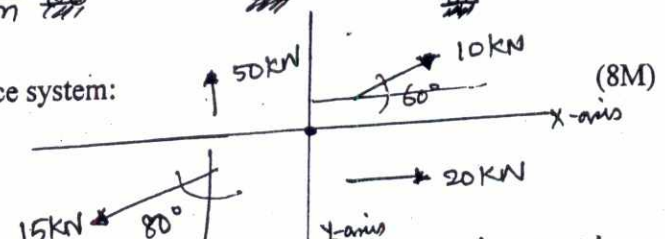


(7M)

Q4) a) Draw FBDs of the following beams:



b) Using Triangular of Vectors, solve the force system:



(8M)



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**B.ARCH. FIRST YEAR SEMESTER I
NOVEMBER 2018 REGULAR EXAM**

Subject: Humanities
Maximum Marks- 50
Date: 28/11/2018

DURATION: 2 hours

Notes:

- Attempt any five Questions.
- Numbers on the right hand side indicate marks for each question.
- Start answer of every new question on a new page.
- Support answers with relevant sketches/ graphics as much as possible.

- Q 1) Explain in brief world systems theory by Immanuel Wallerstein. (10)
- Q 2) Describe with the help of sketches evolution of any one of the following products (10)
Stone age knife to Swiss army knife
Coco Cola Bottle
- Q 3) Share the experience of heritage walk from CST to Fort, Mumbai. (10)
Support with sketches.
- Q 4) Briefly describe how time is perceived by different cultures. (10)
- Q 5) Given that many aspects of daily life and understanding has been appropriated, (10)
do you think there can be entities which cannot be appropriated? Give examples.
Also, explain why it would be impossible to appropriate them?
- Q 6) Explain any three disciplines under humanities and how they influence architecture. (10)
- Q 7) Write Short Notes on any two- (10)
Cultural appropriation
Difference between Time Abbreviations -AD/BC, AH/ BH and CE/ BCE
Boundaries of value
Silk route
Circadian Rythm