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FIRST YEAR B.ARCH- SEM II EXAMINATION APRIL 2019

Subje	ubject: Architectural Building Construction Max M		Max Marks: 70				
Date:	18/04/2019 Duratio		Duration: 3 Hrs				
Q.1 ar	nd Q.	6 are compulsory, Attempt any 4 out of remaining.					
Draft :	at app	propriate scale wherever not mentioned. Write answer	s in pointers.				
Q1.	Expl	<u>15M</u>					
	Α.	Extrados					
	Β.	Springing line					
	C.	Abutment					
	D.	Sofit					
	E.	Skewback					
Q.2.	A series of semicircular arches in brick need to be constructed on a span of 1.8m.each.						
	Draft	t the elevation on appropriate scale.	<u>10M</u>				
Q.3.	A ha	Il of 3.5 M.x 6.0M. needs to be separated by partition.					
	Design the partition and draft elevation showing construction details						
	on a	ppropriate scale.	10M				
Q.4.	Draw	v and define any 4 types of arches in 1 brick thick wall.	<u>10M</u>				
Q5.	Defir	ne and explain any 5 types of exterior wall finishes.	<u>10M</u>				

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15M

10M

Q.6. A watchman's cabin needs to be constructed in 1Bk. thick load bearing construction.



Draw a detail section AA till plinth level on 1:10 scale.

Q7. Draft L junction and T junction in rat trap bond.

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 SCHOOL OF PHARMACY
 SCHOOL OF ARCHITECTURE

FIRST YEAR B.ARCH - SEM 2 (APRIL 2018-19 EXAMINATION) SUBJECT: THEORY AND DESIGN OF STRUCTURES II Date: 15/04/2019 TOTAL MARKS: 50 Duration: 2 hours 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) î. What is Moment of Inertia, Modulus of Rigidity and Bulk Modulus? ii. Explain Hooke's Law with graph. iii. Explain different types of stresses. What are Centre of Gravity and Centroid of a body? explain with examples iv. Give SI units of Shear Force, Bending Moment, Moment of Inertia, Centre of Gravity & Strain V., Q2) a) What is the importance of Centre of Gravity in a structure? (5M) b) Calculate Centre of Gravity of the given section -(10M)100 mm 115M 15 mm Q3) Analyse the following beam and calculate Reactions, SFD and BMD. (15M) 15KN 1m Q4) Calculate reactions, SFD and BMD of the following cantilever beam: (15M) 5 KN 3M 2M Innovative Teaching - Exuberant Learning Vision : To be the most sought after academic, research and practice based school of Architecture that others

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B.ARCH. FIRST YEAR -SEMESTER II APRIL 2019 EXAMINATION

Subject: Humanities	
Maximum Marks- 50	
Date: 16/04/2019 DURATIO	N: 2 hours
Notes:	
Attempt any <u>five</u> Questions.	
 Numbers on the right hand side indicate marks for each question. 	
 Start answer of every new question on a new page. 	s a znen n
 Support answers with relevant sketches/ graphics as much as possible. 	
Q1) Why do you think it is essential to know the beginnings of architecture. Support with examples and sketches.	(10)
Q2) Describe in detail an Ancient river Valley Civilization.	(10)
Q3) Explain in detail a Roman Structure. Did it hold any symbolic meaning reflecting values of the period in which it was made.	
Q4) Explain the meaning of Yin and Yang Symbol in Chinese Culture.	(10)
Q5) Differentiate between a Greek Agora and Roman Forum with example.	(10)
Q6) Differentiate between Etruscan, Greek and Roman Temple with the help of example	es. (10)
Q7) Comment on the dark ages in the Mediterranean basin.	(10)
Q8) Draw the Evolution of Pyramids.	(10)

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