

School of Engineering & Technology

School of Pharmacy

Knowledge Resource & Relay Centre (KRRC)

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Dear Sir/Madam, Received with thanks the following Semester/Periodic question papers from your exam cell:								
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Architectural Representation & Detailing

(Shaheen Ansari)

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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

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□ SCHOOL OF ARCHITECTURE

SECOND YEAR B.ARCH- SEM IV EXAMINATION OCT 2018

Date: NOTI Ques	: 36/10/ ES: stion no	chitectural Building Construction /2018 . 2 is compulsory, attempt any 2 questions out of remaining. table data. Draw neat and proportionate sketches wherever r	Max Marks: 50 Duration: 3 Hrs	
Q.1.	2 nos 200n Joist at top	y plan of mezzanine floor 2400 high from plinth level. s.channel for column 100 x 450 x 12 mm hm thick wall. 150 x 200 x 10mm placed at 450 c/c. on the column, with the and bottom of the column. M.S.plate above and finished floor with any material.	ne help of M.S plate	20
	Span Effect Resti Colur Beam Intern size 4	are a plan of mezzanine floor with given information below. 9.00m. tive span 9.23m. ng on 4 nos. of columns nns - 2 nos. of C channels (100 x 450mm) 1 220 x 150mm resting on top of the base plate of size 230 x nediate M.S.joist 450mm c/c, above which provide M.S. plate 150 x 3000 x 4mm. provide carpet as finishing material.	450 x 12mm. ∋ of	
Q.2.	Fill in (Any a. b. c. d. e. f. g. h. i. j. k. I.	the blank OR correct the sentence OR give answer in one line 10) All steel members are to be painted with suitable	whenever exposed. ge, fillets and web. h justification. s? ear span of the truss 30mm. end. action.	10



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	Q.3.	Show elevation of connection of M.S. beam and M.S. column with given data below. Column - ISMB 250 x 450 Beam - 160 x 400 Seat angle 100 x 75 x 8 Stiffening angle - 90 x 90 x 8 Set angle - 160 x 400 for beam.	20	
	Q.4.A Q.4.B	Explain in brief where and why steel grillage foundation is used. Show connection of equal angle purlin of suitable size with principal rafter (2 nos.) 75 x 75 x 10mm with M.S. cleat (75 x 75 x 8) with gusset plate (350 x 250 x 10m)	10	
		by using strut of 50 x 50 x 6mm.	10	
	Q.5.A	Draw a large proportionate elevation of bottom chord of the steel truss by using 2 nos. of equal angle (75 x 75 x 8), strut (50 x 50 x 6) with gusset plate (300 x 300 x 10).	<u>10</u>	
Q.5.E	Q.5.B	Draw sectional elevation of steel grillage foundation (suitable scale) considering data below.	10	
		Excavation - 3000(L) x 3000(B) x 1200 (D) P.C.C in 1:3:6 - 2700(L) x 2700(B) x 150 (D)		
		Concreting above P.C.C - 2550(L) x 2550(B) x 1050 (D) upto ground level.		
		250mm above P.C.C top, provide M.S joist as lower ties (9 nos.) 150(W) x 200(D) which are in concreting.		
		ISMB 150(W) \times 300(D) as upper ties (3 nos.) in concreting. Angle tie 50 \times 50 \times 6mm running end to end.		
		Spacing bar as per required length end to end for lower as well as upper ties.		
		Base plate 1200 x 1200 x 18mm above upper ties (3 nos.). Channel section as column above (Assume suitable size).		
		Above ground level, take 450mm concrete otla with granite stone finishing for sitting (1500 x 1500) on Railway platform.		