Total No of Questions: [12]

2

SEAT NO. :

[Total No. of Pages : 2]

(Semester - II)					
Time: 3 Hours Max. Marks					
		to the candidates:			
		ers to the two sections should be written in separate answer books. er any three questions from each section.			
		diagrams must be drawn wherever necessary.			
4)		es to the right side indicate full marks.			
5)		f Calculator is allowed.			
6)	Assun	ne Suitable data if necessary			
0.1.)		SECTION I	-		
Q1)	a)	Discuss in brief the importance of 'National Building Code' of India.	[6]		
	b)	Explain in detail the merits of Raft foundation?	[6]		
	c)	Explain with neat sketch the repairing of basement construction.	[4]		
Q2)	a)	Write a short note on fly ash bricks.	[4]		
	b)	Explain in detail any one lab test on bricks.	[6]		
	c)	Explain with neat sketch the construction procedure of 'Ashlar fine masonry'.	[6]		
23)	a)	Draw a neat sketch of form work for 'RCC slab'.	[6]		
	b)	Explain with neat sketch, the block masonry construction.	[6]		
	c)	Draw neat sketches of any two precast concrete members.	[4]		
2.4)	a)	Write the comparison of hollow & solid block masonry.	[6]		
	b)	Explain the construction procedure of composite masonry.	[6]		
124	c)	Write a short note on 'Joints in concrete work'	[4]		
Q5)	a)	What are the IS specifications of flooring materials?	[6]		
	b)	Explain with neat sketch the 'Timber flooring'?	[6]		
	c)	Explain with neat sketch the fixing of 'Mangalore tiles'	[6]		
Q6)	a)	Write a short note on i) Asphalt Flooring ii) Terrazzo Flooring	[6]		
	b)	Explain with neat sketch, the detailed procedure of installation of steel trusses?	[6]		
	c)	What is the purpose of providing 'North Light Trusses' in Industrial buildings?	[6]		
Q7)	a)	SECTION II Explain with sketch. i. Frame ii. Hold Fast iii) Horn	[6]		
	b)	Describe in detail stability of arches.	[6]		
	c)	Define Plastering, Explain step by step procedure of cement plastering.	[6]		
Q8)	a)	Enlist the types of windows and explain Dormer window.	[6]		

b)	Distinguish between lintels and arches	[6]
c)	What is wall Cladding?. State objectives of painting.	[6]
a)	Define vertical circulation. Enlist the different means of vertical circulation. Explain any one in detail.	[6]
b)	Compare escalators and stairs.	[4]
c)	You are the site-in-charge, what safety precautions you will take on site.	[6]
a)	Design a R.C.C. dog-legged staircase and draw a detailed plan. A staircase room available is 3.4 m X 5 m with the outer wall thickness of 0.23 m. Height of the ceiling is 3.2 m. The thickness of R.C.C. slab is	[6]
b)	Describe escalators in detail. 0.10 m.	[4]
c)	Describe storage of material on site?	[6]
a)	Define seasoning of timber. Explain defects in timber.	[6]
b)	Write short notes on- i) Eco-friendly material ii) Ferro-crete	[6]
c)	Write down engineering properties of- i) Glass ii) Ceramic products	[4]
a)	Define seasoning of timber. Explain any one method in detail.	[6]
b)	Write short notes on- i) Ceramic products ii) Gypsum	[6]
c)	Write down engineering properties of- i) Plastic ii) Aluminium	[4]
	a) b) c) a) b) c) a) b) c) a) b) b) b)	 a) Define vertical circulation. Enlist the different means of vertical circulation. Explain any one in detail. b) Compare escalators and stairs. c) You are the site-in-charge, what safety precautions you will take on site. a) Design a R.C.C. dog-legged staircase and draw a detailed plan. A staircase room available is 3.4 m X 5 m with the outer wall thickness of 0.23 m. Height of the ceiling is 3.2 m. The thickness of R.C.C. slab is b) Describe escalators in detail. 0.10 m. c) Describe storage of material on site? a) Define seasoning of timber. Explain defects in timber. b) Write short notes on- i) Eco-friendly material ii) Ferro-crete c) Write down engineering properties of- i) Glass ii) Ceramic products a) Define seasoning of timber. Explain any one method in detail. b) Write short notes on- i) Ceramic products ii) Gypsum