

DAP-161001010402 Seat No. _____

B. Architecture End of Term (Sem. IV) Examination

May - 2022

		Building Material & Construction- IV	
Tim	ne : 2	2 Hours] [Total Marks :	50
Ins	truct	tions: Support your answer with necessary example & sketch, wherever necessary.	z/or
1	Exp	clain the following with neat sketches: (any four) Explain the importance of Steel as Reinforcement bar	20
		in RCC	
	(b)	Pile foundation	
	(c)	Draw isolated pad footing with plinth beam for frame structure and give necessary details	
	(d)	The difference between Precast and Cast in Situ Concrete Construction	
	(e)	RCC Retaining wall and Shear wall	
	(f)	Draw formwork detail for sunken slab	
2	Dra	w the detail of stair having waist slab or folded	10
	plat	te for 3mt height.	
3	Cho	oose correct answer for following questions:	10
	(a)	Workability is a property of concrete by which concrete can be properly (Mixed/Transport/Placed/Compacted)	

(b)	Curing is required for	
	(To continue hydration/To break hydration/To break gel	
	to water ratio)	
(c)	pH of water used for concrete should be	
	(More than 6/less than 6/exact 5)	
(d)	C_3 5 Responsible for Strength.	
	(Initial/Final)	
(e)	If we add extra water in concrete then it will increase	
	(w/c ratio/Bleeding/Workability/All of it)	
(f)	Cement should be used before (1 month / 3	
	month / 12 month)	
(g)	is used in cement to increase the initial setting	
<i>a</i> >	time (Lime / Silica / Alumina / Gypsum)	
(h)	Water is ingredient in concrete. (Inactive / Active / Neutral / Inert)	
(i)	,	
(1)	Proportion of M20 grade concrete is (1:4:8: / 1:2:4: / 1:1.5:3 / 1:3:6)	
(j)	Minimum cover require in RCC Colum is (10	
V /	mm / 15 mm / 25 mm)	
Ans	ewer the following in short: (any five)	1
(a)	Define bleeding.	
(b)	Define workability.	
(c)	What is the purpose of compaction?	
(d)	Explain shortly the importance of curing.	
<i>(</i>)	Explain any two concrete grade with its proportions.	
(e)	military the constitute grade with the properties.	
(e) (f)	Role of Fine aggregate and Coarse aggregate in concrete.	