## 17209

<b>3 Hours / 100 M</b>	[arks	Seat No.						
Instructions :	<ul><li>(2) Answe</li><li>(3) Illustr</li><li>(4) Figur</li><li>(5) Mobil</li></ul>	nestions are come er each next ma rate your answe es to the right in le Phone, Pager es are not permi	in question rs with nec ndicate <b>fu</b> and any o	at sketc <b>II</b> mark other El	thes wh zs. lectron	nerever i		
								Marks
1. Attempt any ten:								20
a) State the role of Civ	il Engineerir	ng in human life.						
b) Define Environmen	_	_						
c) Distinguish betwee	_	_						
d) State:								
i) Green timber		ii) Co	nverted tin	nber				
e) State suitability of o	clay as constr	ruction material.						
f) Enlist major ingred	ients of ceme	ent.						
g) Enlist any two adva	antages of pr	recast concrete bl	locks.					
<ul><li>h) State the standard of</li><li>i) Conventional b</li></ul>			andard bric	ek				
i) List four types of fi	bres.							
j) List any four types	of building w	where sound insul	ation is nec	cessary.				
k) Define water proof	ing and dam	p proofing.						
l) List any two proper	rties of rice h	nusk.						
2. Attempt any four:								16
a) List any four criteri	a for selectio	on of construction	materials.					
b) State any one exam i) Natural	ple of follow ii) Artific	C		iv)	Finishin	g		
c) State the various sa	ifety precauti	ions to be taken v	vhile perfor	rming tl	he oper	ation of l	blasting.	
d) Draw a C/S of trur	ık of tree.							
e) Give any four prop	erties of eco-	-friendly material						
f) Define bitumen and	d state differe	ent forms of bitum	nen.					

3. Attempt any four:	Marks 16
a) State the various methods of seasoning of timber. Explain any one in brief.	
b) Explain the manufacturing process of fat lime.	
c) Enlist the requirements of good sand.	
d) List any four properties of plywood.	
e) Enlist the various harmful ingredient of a brick earth and state the adverse effects of ea constituent on the bricks.	ch
f) Describe various common field test carried out on cement.	
4. Attempt any four:	16
a) List various special bricks, also state their uses.	
b) Enumerate the characteristics of good tiles.	
<ul><li>c) Suggest the types of glass to be used for the following:</li><li>i) Making panel wall or partition wall.</li></ul>	
ii) Laboratory apparatus.	
iii) Sky light of roofs.	
iv) Jewellery store or cashier booth.	
d) Enlist the uses of ceramic material.	
e) Enlist the properties of ferrocrete.	
f) Explain various method of moulding of bricks.	
5. Attempt any four:	16
a) Explain any four properties of geosynthetic material and its application in construction.	
b) Write the need of termite proofing and sound insulating materials.	
c) List four uses of glass fibres as construction materials.	
d) Enlist the uses of rice husk.	
e) State advantage of artificial sand over natural sand.	
f) Draw flow diagram for manufacturing process of cement.	
6. Attempt any four:	16
a) Enlist any four properties of good paint.	
b) Define 'wall cladding'. Describe the process of wall cladding.	
c) Give stepwise procedure of fixing linoleum to floor.	
d) State any two artificial timber based product.	
e) List any four application of construction waste.	
f) Write the objectives of using fly ash in cement or concrete.	