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Reg. No. :	
Question Paper Code: 12086	
M.E./M.Tech. DEGREE EXAMINATIONS, JANUARY 2022.	
Elective	
Construction Engineering and Management	
CN 4071 – ADVANCED CONCRETE TECHNOLOGY	
(Regulations 2021)	
Time: Three hours Maximum: 100 marks Answer ALL questions.	
PART A — $(10 \times 2 = 20 \text{ marks})$	
With rise in temperature of atmospheric air, how is the setting time of cement	
is affected? 2. Which is an indicator of occurrence of metal fatigue?	n
3. How many bags of cement required per m³ of M25 Concrete?	100000
4. Mention any four methods of mix proportioning.	the plane
5. Why curing is required?	
6. Which is the most preferred method of batching? Why?	
7. When will ready mix concrete be preferred?	
8. What is meant by aspect ratio of fibre?	-
9. "High Strength Concrete is used" in bridges. Why?	- Tribus
10. Mention any two factors affecting workability of concrete.	and the last
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get up in the				PART B — $(5 \times 13 = 65 \text{ marks})$	
Albania III					
10000	11.	(a)		cuss in detail any three tests carried out to decide the suitabil- cement for building construction.	ity of
eserge l				Onestion Pages of des 12086	
10.00		(b)	Brie	efly discuss the following tests on aggregates :	
- 1		***	(i)	Flakiness Index	
			(ii)	Elongation Index	
en less to			(iii)		
Security 1					
	12.	(a)	met stre mix 2.70 40 i 2.80 com (Hir	ign a concrete mix for an airfield pavement using ACI common thou. The pavement is to be designed for a minimum compresent of 30 MPa at 28 days. The laboratory tests on the control show a standard deviation of 4 MPa. The specific gravity of Colonia and its dry rodded density is 1600 kg/m³ and its maximum standard. The specific gravity of F.A is 2.65 and its fineness modul of the specific gravity of F.A is 2.65 and its fineness modul of the specific gravity of F.A is 2.65 and its fineness modul of the specific gravity of F.A is 2.65 and its fineness modul of the specific gravity of F.A is 2.65 and its fineness modul of the specific gravity of fresh concrete any other essential movement of the specific gravity of fresh concrete 2355 kg/m³)	ssive colling
State of Street				Or	
em at m all					4-1-17
mus blows Draga Lat		(b)		cribe in detail the step by step procedure for mix designations concrete with an example.	ı for
	13.	(a)	(i)	Discuss briefly the compaction of concrete.	(8)
	7		(ii)	List out the equipments used for transporting of concrete.	(5)
				Or .	
		(b)	(F)	Explain the different methods of Curing.	(8)
		(b)	(i)	Give a short note on Placing of Concrete.	(5)
			(ii)	Give a short note on Flacing of Concrete.	(0)
	14.	(a)	Wri	te short notes on :	
			(i)	Polymer Concrete	
			(ii)	Fibre Reinforced Concrete	77. 8
				Or	
		(I-)	F	lain in detail on Gos polymon and self composting consucts	V e
		(b)	Ехр	lain in detail on Geo polymer and self-compacting concrete.	
				Service and the interest and self-service and the independent	
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