

7 a. Define high strength concrete. Explain the importance of using mineral admixtures in high strength concrete. List the different minerals admixtures used in high strength concrete.

b. Write a note on "roller compacted concrete" and "bacterial concrete".

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8 a.	What is self consolidating concrete? Discuss the different methods to determine the	10
	workability of SCC.	10
b.	Explain the process involved in producing polymer impregnated concrete. Discuss the	10
	'mechanical properties' and 'durability' of polymer impregnated concrete.	
UNIT - V		
9 a.	What is a geosynthetic? Explain the necessity of using geosynthetics in civil engineering field.	10
	State some typical applications of geosynthetics.	
b.	Discuss the geometrical aspects, hydraulic properties, and durability of geosynthetics.	10
10 a.	What are geogrids? Explain with sketches the different types of geogrids. State some important	10
	applications of geogrids.	
b.	Explain how geosynthetics can be used for separation, filtration and reinforcement in civil	10
	engineering field?	10

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