	of Printed Pages : 4 I No 170741/120741/30741	Q.7	Separation of coarser particles from concrete mix is termed as (CO-4)
4th Sem. / Civil, Brick Tech., Const. Mgmt, Highway Engg. Subject: Concrete Technology Time: 3 Hrs. M.M.: 100 SECTION-A		Q.8	Grades upto are disignated as ordinary concrete (CO-5)
		Q.9	There is no guarantee in achieving the desired strength in case of concrete. (CO-5)
		Q.10	Most Commonly used accelerator admixture is (CO-6)
Note: Objective type questions. All questions are compulsory. Fill in the blanks. (10x1=10)			SECTION-B
	Fill in the Blanks	Note	:Very short answer type questions. Attempt any ten questions out of twelve questions. 10x2=20
	The mixture of cement and water is known as (CO-1)	Q.11	Define Water cement ratio. (CO-3)
		Q.12	What do you mean by batching? (CO-8)
Q.Z	Low heat Portland cement is usually used in (CO-2)	Q.13 Name five materials used as accelerators. (CO-6)	
Q.3	Percentage of voids are high for aggregates. (CO-2)	Q.14	Name the types of concrete mix. (CO-5)
Q.4	The aggregates are said to be graded when certain sizes of particles are missing. (CO-2)	Q.15	What is an output of a mixer? (CO-8)
		Q.16	Define Retarders (CO-6)
Q.5	Smaller size specimen gives strength than large size specimen of concrete. (CO-3)	Q.17	What is the effect of high temperature on concrete? (CO-7)
		Q.18	B Explain Segregation of Concrete. (CO-4)
Q.6	Angular and rough surface aggregates haveworkability. (CO-4)	Q.19	What are the drawbacks of Rebound hammer test? (CO-9)
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- Q.20 What do you mean by final setting time? (CO-2)
- Q.21 Why excessive compaction not good for concrete? (CO-8)
- Q.22 Why is gypsum added to cement? (CO-2)

SECTION-C

- **Note:** Short answer type questions. Attempt any eight questions out of ten questions. 8x5=40
- Q.23 Define Fineness of cement. How can we find the fineness of cement? (CO-2)
- Q.24 Explain operation of Mixers. What do you understand by output of a mixer. (CO-8)
- Q.25 What do you understand by hot weather concreting? Explain effects of hot weather on concreting operations. (CO-7)
- Q.26 What are the main objectives of mix design? (CO-5)
- Q.27 Define bleeding of concrete. Explain its causes and prevention. (CO-4)
- Q.28 What do you mean by curing? What are its objectives? (CO-8)
- Q.29 Write a brief note on Fly Ash as admixture with its uses. (CO-6)
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- Q.30 Briefly describe limitations of W/c ratio law. (CO-3)
- Q.31 Explain how the following affect the workability of concrete. (CO-4)
 - a) Size of aggregate
 - b) Grading of aggregates.
- Q.32 Write a note on sillica fume concrete with advantages. (CO-7)

SECTION-D

- **Note:**Long answer type questions. Attempt any three questions out of four questions. 3x10=30
- Q.33 What is compaction? Explain different methods of compaction. (CO-8)
- Q.34 Explain the tremic method for under water concreting with the help of diagram. (CO-7)
- Q.35 Explain the following in case of Hardened concrete. (CO-4)
 - a) Durability
 - b) Impermeability
- Q.36 Explain following properties of aggregates: (CO-2)
 - a) Bulking of sand
 - b) Bulk density of aggregates

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