Total No. of Questions : 8]

[Total No. of Printed Pages : 4

Roll No

CE-402-CBGS

B.Tech., IV Semester

Examination, December 2020

Choice Based Grading System (CBGS) Construction Technology

Time : Three Hours

Maximum Marks : 70

Note : i) Attempt any five questions.

- ii) All questions carry equal marks.
- iii) In case of any doubt or dispute the English version question should be treated as final.

§

1. a) What foundation? Explain different types of Foundation with neat sketch. 7

b) What type of foundation would you adopt in the following cases? Give reasons. Also provide sketches of the type of foundation.

- i) When there is a stiff crust below which the soil is soft, but the crust is non-uniform
- ii) When a large load is to be transmitted to a hard stratum but has to be taken through a stiff clay,
- iii) When the soil is a fill which is of low compressibility but non-uniform.

CE-402-CBGS

PTO

2. a) Explain different type of form work used in concrete construction. 7

H\$s ì¶m»¶m H\$a|&

Freyssinet system

- b) Mention different types of failure of formwork and remedial measures to be taken 7
- 3. a) What are the types of Stairs? Explain dog legged stairs are open well stairs with neat sketch in detail. 7
 - b) Explain : i) Freys

7

ii) Magnel Blaton systems of prestressing with sketches.

CE-402-CBGS

ColfteO.

Download all NOTES and PAPERS at StudentSuvidha.com

- 4. a) Explain the single joist timber floor and double joist timber floors with neat sketch. 7
 - b) Explain the Collar beam roof, Couple close roof and lean to roof with diagram.7
- 5. a) Explain any three methods to retrofit of reinforced concrete column. 7
 - b) What is base isolation technique? Explain it with a neat diagram. 7

g'PmE§&

- 6. a) Explain briefly about the following masonry wall construction?
 - i) Hollow concrete bricks
 - ii) Solid concrete blocks
 - ii High-quality building blocks
 - b) Explain, in detail, the general principles that should be observed during the construction of earthquake-resistant building. 7

CE-402-CBGS

i) ii) iii)

PTO

Download all NOTES and PAPERS at StudentSuvidha.com

7.	a)	Briefly explain about	"Light Weight"	concrete and
		"Shotcrete".		7
		"	"	
	b)			
	/	with a neat sketch.		7
				" ©

8. a) Write down defects in plastering and also remedies for minimizing defects of plastering work.

b) What is DPC? Explain any two damp proofing method.

tomated from *****

CE-402-CBGS

PTO

7

Download all NOTES and PAPERS at StudentSuvidha.com