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## **CE-402-CBGS**

### **B.Tech., IV Semester**

Examination, June 2020

### **Choice Based Grading System (CBGS)**

### **Construction Technology**

*Time : Three Hours*

*Maximum Marks : 70*

**Note :** i) Attempt any five questions.

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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) Explain the forces acting on foundations with neat sketch.

7

b) What precautions are required to ensure proper grip in case of bearing piles on rock surfaces

i) If it is a driven pile

ii) If it is a cast in-situ pile

7

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[2]

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i)

ii)

2. a) Write down the applications and advantages of plastic formwork in concrete construction. 7
- b) Explain the stationary and slip form work techniques.7
3. a) Explain the need for providing construction joint. Draw and explain any two types of construction joints. 7
- b) What is Cavity walls? And also write down purpose for providing a cavity wall. 7
4. a) Write down the types of floor in detail with neat diagram.7
- b) State requirements of good lighting and good ventilation in buildings. 7

CoRHO.

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5. a) What is Retrofitting? What is meant by global and local retrofitting? 7
- b) What are the best materials used for earthquake resistant construction? Explain. 7
6. a) Explain the Grillage Foundation and also their uses with neat sketch. 7
- b) Explain merits and demerits of steel formwork over timber formwork. 7
7. a) Write down the objectives of plastering and also write requirement of good plaster. 7
- b) What do you understand by Dampness? Write down the causes and effect of dampness. 7

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8. a) Write down the construction procedure of Bengal terrace roof with diagram. 7
- b) Explain seismic construction with stone masonry as per codal provisions. 7

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