Roll No. : .....

# 320455(20)

# B. E. (Fourth Semester) Examination 2020 APR-MAY 2022 (New Scheme)

(Civil Branch)

### **BUILDING CONSTRUCTION**

Time Allowed: Three hours

Maximum Marks: 80

Minimum Pass Marks ; 28

Note: Attempt all questions. Part (a) of each question is compulsory and carries 2 marks.

Attempt any two parts from (b), (c) and (d) which carry 7, marks each.

### Unit-I

Explain stripping

1. (a) Define safe bearing capacity of soil.

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- (b) What are the causes of foundation failures and explain their rectification?
- (c) Discuss about the design of foundation resting on black cotton soils.

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- (d) Write short notes on:
  - (i) Expansive and Non-Expansive soil
  - (ii) Alluvial and Residual soils

## Unit-II

- 2. (a) How will you define the term masonry?
  - (b) Discuss various types of bonds used in brick masonry. Explain any one with the help of neat sketch.
  - (c) What are the common difference between the brick masonry and stone masonry?
  - (d) Explain the necessity and types of lintels with suitable sketch.

# Unit-III

- 3. (a) Explain stripping time.
  - (b) Explain with neat sketch pitched and flat roots.

#### 131 .

- (c) Draw a neat diagram showing component of ground floor. Explain the method of constructing cement concrete flooring.
- (d) What do you understand by Formwork? Explain its various types with sketches.

#### Unit-IV

- 4. (a) What is Damp Proof Course?
  - (b) What are the causes of dampness in building?
  - (c) Discuss the defects in plasters and their remedies.
  - (d) What are the various considerations are taken during plastering and pointing?

# Unit-V

- 5. (a) Explain the term Rise and Tread.
  - (b) Explain types of stair's with sketches based on geometry.
  - (c) Enumerate and discuss type of materials used for sound proofing and their properties.
  - (d) Explain the common building material and their suitability in fire proof construction.