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(b) What are the dauses of failure of

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BE (4th Semester)

Examination, Nov-Dec 2021

Branch : Civil

BUILDING CONSTRUCTION (NEW)

Time Allowed: Three Hours

Maximum Marks: 80

Minimum Pass Marks: 28

Note: Attempt all questions by answering Part (a)

compulsorily and selecting any two questions

from (b), (c) and (d).

Q. 1. (a) What are the essentials of a good

foundation?

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- (b) What are the causes of failure of foundation? What remedial measures would you adopt?
- (c) Explain with the help of sketches and conditions when such foundations are
 - adopted :
 - (i) Mat foundation
 - (ii) Grillage foundation
- while designing a foundation in black cotton
 soil. Discuss in brief types of foundation in
 such soil.

- Q. 2. (a) Differentiate between random rubble and ashlars stone masonry?
- (b) Enumerate the various types of bond in brick masonry. Discuss essential features of English bond.
- (c) Define facing bond, raking bond, stretcher bond, and header bond and the conditions when they are provided.
- (d) What are the advantages of cavity wall?

 What precautions are observed in cavity

 wall?

- Q. 3. (a) Enumerate various types of flooring
 - materials.
- (b) Draw a neat diagram showing component
 - of ground floor. Explain the method of constructing cement concrete flooring. 7
- (c) Explain the method of laying granolithic
 - flooring discusses its application. 7

 (d) Write various types of upper floors and
 - explain any one, with sketch in detail. 7
 - Q. 4. (a) What should be the characteristics of damp proofing materials?
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| (b) | What are the requirements of a good form |
|--------|--|
| touris | work? Draw a detailed sketch of the |
| | formwork for a rectangular column? 7 |

(c) Discuss various methods adopted for damp notice and labely a week proofing of a building. 7

quarter turn stairs.

- (d) Write is the purpose and method of providing:
 - (i) Construction joint

d) State the requirements of a good staticase.

- (ii) Expansion joint
- Q. 5. (a) Enumerate the classification of stairs based on geometry?
 - (b) Discuss in brief general principles and factors in acoustical design of a theater. 7

- (c) Explain the common building materials and their suitability in fire proof construction. 7
 - (d) State the requirements of a good staircase.

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factors in acquatical against of a styrater ?

Draw a typical plan, section of newel quarter turn stairs.