

Registration No :

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Total Number of Pages : 01

B.Arch  
AR143

1<sup>st</sup> Semester Back Examination 2019-20

BUILDING MATERIAL - I

BRANCH : B.Arch

Time : 3 Hours

Max Marks : 70

Q.CODE : HB769

**Answer Question No.1 which is compulsory and any FIVE from the rest.  
The figures in the right hand margin indicate marks.**

- Q1 Answer the following questions : (2 x 10)**
- a) State standard size of brick recommended by BIS.
  - b) Write uses of sand.
  - c) Mention two index properties of soil.
  - d) Write uses of first class bricks.
  - e) Define light weight concrete.
  - f) Write characteristics of lime.
  - g) Define fineness modulus.
  - h) Write difference between quick lime and hydraulic lime.
  - i) State two characteristics of good building stones.
  - j) Define hydration of cement.
- Q2**
- a) Describe in detail about IS classification of soil. (5)
  - b) Illustrate the various requirements of good mortar. (5)
- Q3**
- a) Provide a detailed classification of bricks used in construction work. (5)
  - b) Describe the wet process of manufacturing cement. (5)
- Q4**
- a) Explain in detail constitute materials of plain cement concrete. (5)
  - b) State different types of foundations used in construction with sketches. (5)
- Q5**
- a) Write note on formation of soil. (5)
  - b) Describe the process of making lime mortar. (5)
- Q6** Describe about various methods of quarrying of stones. (10)
- Q7** State various building components and their functions. (10)
- Q8 Write short Notes on any TWO : (5 x 2)**
- a) Manufacture of lime
  - b) Artificial stone
  - c) Index property of soil