B. Arch-1st –Arch.

Building Materials -1

Full Marks: 70 Time: 3 Hours

Answer any six questions including Q. No. 1 which is compulsory

The figures in the right-hand margin indicate marks

1/ Answer all questions.	2×10]
(a) Define natural bed of a stone.	
(b) State the harmful ingredients in brick earth.	
Explain the composition of ordinary cement.	
d) Define consistency of cement.	
e) What are the uses of mortar?	
Define workability of concrete.	
g) What is meant by seasoning of timber?	
h) State the basic difference between rubble masonry and ashlar mason	nry.
i) Explain curing of concrete.	
(i) What are various types iron used in construction work.	
2. (2) What are the laboratory tests of cement? Describe any two of them.	[4]
(b) What are the qualities of a good building stone? Describe them.	[6]
3. (a) Describe in detail about classification and uses of bricks.	[5]
(by Describe various types of bonding used in brickwork.	[5]
4. (a) What are the various methods of proportioning of concrete?	[5]
(b) Enumerate various use of timber.	[5]
8. (a) Enumerate the properties and uses of wrought-iron.	[5]
(b) Describe about the various types and usesof steel.	[5]
6. (a) What are the various types mortar used in construction work?	[4]
(b) Describe in detailed about classification and uses of Lime?	[6]
7. (a) Compare brickwork with stonework.	[5]
(b) What are the various types of rubble masonry used?	[5]
8. Write short notes on any two:	[5×2]
(a) Quality control of concrete	
(b) Flemish Bond	
(c) Ashlar masonry	
(d) Geological classification of rocks	