

Total No. of printed pages = 3

19/3rd Sem/DCE301

2021

CONSTRUCTION MATERIALS

Full Marks – 100

Time – Three hours

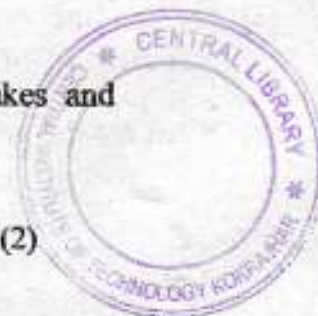
The figures in the margin indicate full marks for the questions.

Answer any *five* questions. 20×5=100

1. (a) Explain in details the classification of rocks. 8
- (b) What are the various methods of quarrying of rocks and explain any one method of quarrying. 6
- (c) What are the objectives of dressing of stones? 6
2. (a) Explain the various processes involved in manufacture of lime. 9
- (b) What are the general characteristics of lime? 4

[Turn over

- (c) What is hydraulic lime and how hydraulic lime is classified? 7
3. (a) What are the good engineering properties of burnt clay bricks? 12
- (b) Explain the process of manufacture of burnt clay bricks. 8
4. (a) With the help of flow chart, explain the process of manufacture of cement by wet process. 10
- (b) What is hydration of cement? 2
- (c) What are the good properties of cement mortar? 8
5. (a) What are the characteristics of good timber? 8
- (b) Explain the process of kiln seasoning of timber. 6
- (c) Explain the following defects in timber: 2×3=6
- (i) Knots
- (ii) Cup or ring shakes and
- (iii) End splits.



6. (a) What are the characteristics of an ideal paint? 6

(b) Explain in details the composition of an oil paint. 10

(c) List out the defects noticed after painting. 4

7. Write short notes on : 5×4=20

(a) Batten Board

(b) Plastics

(c) Wood tar

(d) TMT bars.

