iii) Balcony.

Write short notes on marble flooring.

CBCS SCHEME

1/9	USN	-		15CV36
CA	The state of the s	11/1		
*	CA		Third Semester B.E. Degree Examination, Jan./Feb. 202	21
1/ 3	N. W.	P	Building Materials and Construction	
111	We will	NI.		M-1 00
	lin	ie:	Max.	Marks: 80
ai.		N	ote: Answer any FIVE full questions, choosing ONE full question from each	module.
ctic				
be seal to evaluator and /or equations written eg, $42+8=50$, will be treated as malpractice			Module-1	
as II	1	a.	List four factors causing deterioration of stones.	(04 Marks)
ted		b.	Explain the requirements for a good building bricks.	(06 Marks)
trea		c.	Briefly explain the classification of cement concrete blocks.	(06 Marks)
II be				
, wi	2	_	OR	(04 Marks)
= 50	2	a. b.	List the types of mortar used in masonry work. Briefly explain the following terms:	(04 Marks)
+8		υ.	i) Bulking of sand	
g, 42			ii) Deleterious materials.	(06 Marks)
en e		c.	Define "Grading of aggregates", what is the importance of grading of agg	
vritte			manufacture of quality concrete.	(06 Marks)
ons v				
uatic			Module-2	
r eq	3	a.	Discuss various functions served by foundations.	(04 Marks)
0/ p		b.	Explain various methods of improving the bearing capacity of soils.	(06 Marks)
ır an		c.	With reference to masonry construction, explain the following terms: i) Header and stretcher	
natc			ii) Bond and course	
eval			iii) King closer and queen closer.	(06 Marks)
l to				
ppea			OR	
on, a	4	a.	Draw the plan and elevation of 1½ brick thick wall of English bond.	(06 Marks)
catic		b.	Give the classification of stone masonry.	(04 Marks)
ntifi		c,	Describe partition walls.	(06 Marks)
ide		1		
Any revealing of identification, app	_		Module-3	(0.5.7.5.1.5.1
salin	5	a.	How arches are classified? How do you assess the stability of an arch?	(06 Marks)
reve		b.	Where and why are the following components of buildings used? i) Chejja	
\ny			ii) Canony	

OR

6 a. List the types of roof covering materials used for pitched roofs.
b. Explain lean-to-roof for a cycle stand with sketch.
c. Explain King Post Roof Truss with neat sketch.
(06 Marks)
(06 Marks)

(06 Marks)

(04 Marks)

Module-4

- Explain the salient features of a framed paneled door. (06 Marks)
 - b. Define the technical terms used in doors and windows: Frame, Panel, Horn, Shutter, Transom, Holdfast. (06 Marks)
 - c. Draw neat and proportionate sketch showing the elevation of Glazed window with ventilator. (04 Marks)

OR

Define "scaffolding' and explain its component parts.

(06 Marks)

- b. Distinguish between:
 - i) Helical stair
 - ii) Spiral stair.

(04 Marks)

c. List the different types of staircase and explain under what circumstances they are used.

(06 Marks)

Module-5

Explain integral damp proofing method in a structure.

b. Describe the ingredients of an oil paint.

Explain the steps involved in painting on old wooden surfaces.

(06 Marks)

(04 Marks)

(06 Marks)

OR

10 What are the objects of painting? (04 Marks)

Describe the procedure for carrying out the plastering with cement mortar in two coats.

(06 Marks)

Enumerate the defects found in plastering work.

(06 Marks)