

Building Construction and Construction Materials (version 1)

Third semester Model Question paper in Civil Engineering (Revision 2021)

Max .Mark – 75

Time - 3Hrs.

Part A

I. Answer all questions in one word or one sentence.

1. Define seasoning of stone.
2. List the types of lime.
3. Define efflorescence in bricks.
4. List down any four wood products for construction
5. List down uses of POP.
6. Define MDF and HDF
7. Define framed structure
8. Define scaffolding.
9. Define bonding in masonry

PART B

II. Answer any eight questions from the following, Each question carries 3 marks.

1. List any six natural building materials
2. List the advantages of bamboo as construction material
3. List down the constituents of good brick earth.
4. Make a brief note on use of industrial waste in civil construction sector.
5. Discuss the properties of any two ferrous metals for construction.
6. Explain water proofing methods for buildings.
7. Draw the schematic diagram of under reamed pile foundation.

8. Suggest a type of foundation for a building in made-up soil formation with justification.
9. List down the precautions to be made in brick masonry construction.
10. Sketch the plans of two consecutive courses of a $1\frac{1}{2}$ brick thick wall corner in English bond.

8x3 -24 marks

PART C

Answer ALL questions. Each question carries 7 marks.

III. Give the detailed classification of natural stones

OR

IV. Explain the methods of seasoning of timber

V. Suggest and justify the use of a modern cladding material for public building.

OR

VI. Suggest any four low cost and ecofriendly materials for construction with their comparison with traditional materials

VII. Explain the suitability of pile foundations and give classifications of pile foundation

OR

VIII. Explain the functions of foundation structure.

IX. Prepare a schematic diagram of a well foundation.

OR

X. Suggest and justify type of foundation for black cotton soil

XI. Explain the Underpinning operation with the help of a sketch

OR

XII. Explain the suitability of raft foundation in field condition

XIII. Draw plans of two consecutive courses of 1 1/2 brick wall corner in Flemish bond.

OR

XIV. Suggest suitable materials to suit site conditions for roofing.

Question wise Analysis

Course :Building Construction and Construction Materials (version 1)

Q.No.	Module Outcome	Cognitive Level	Marks	Time
I.1	1.03	Remembering	1	2
I.2	1.02	Remembering	1	2
I.3	1.04	Remembering	1	2
I.4	2.02	Understanding	1	3
I.5	2.03	Applying	1	3
I.6	2.03	Remembering	1	2
I.7	3.02	Understanding	1	3
I.8	4.02	Understanding	1	3
I.9	4.01	Remembering	1	2
PART B				
II.1	1.01	Remembering	3	7
II.2	1.02	Understanding	3	8
II.3	1.03	Applying	3	8
II.4	2.04	Understanding	3	7
II.5	2.02	Understanding	3	7
II.6	2.03	Understanding	3	7
II.7	3.03	Applying	3	7
II.8	3.04	Applying	3	7
II.9	4.01	Understanding	3	7
II.10	4.01	Applying	3	7
PART-C				
III.	1.03	Remembering	7	17
IV	1.03	Remembering	7	17
V	2.04	Applying	7	17
VI	2.04	Applying	7	16
VII	3.04	Understanding	7	16
VIII	3.02	Understanding	7	16
IX	3.04	Remembering	7	17
X	3.04	Applying	7	17
XI	4.02	Understanding	7	17
XII	4.04	Understanding	7	17
XIII	4.01	Understanding	7	17
XIV	4.04	Applying	7	17

Course :Building Construction and Construction Materials (version 1)

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Mark Distribution

module	Hr/Module	Marks/module	Type of Questions							
			Part A		Part B		Part C		Total	
			No. of Questions	Marks	No. of Questions	Marks	No. of Questions	Marks	No. of Questions	Marks
1	14	28.6	3	3	3	9	2	14	7	26
2	15	30.75	3	3	3	9	2	14	6	26
3	15	30.75	1	1	2	6	4	28	9	35
4	16	32.8	2	2	2	6	4	28	9	36
Total	60		9	9	10	30	12	84	31	123

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Cognitive Level Mark Distribution

Cognitive Level	Marks	% of Marks
Remembering	29	24
Understanding	53	43
Applying	41	33
Analysing		
Evaluating		
Creating		
Total		100

Building Construction and Construction Materials (version 2)

Third semester Model Question paper in Civil Engineering (Revision 2021)

Max .Mark – 75

Time - 3Hrs.

Part A

I. Answer all questions in one word or one sentence.

1. Define recycling process of building materials. 1.01
2. List the geologic classification of rocks 1.03
3. Define exogenous trees. 1.03
4. List down any four nonferrous metals 2.03
5. List down thermal insulating materials. 2.03
6. Define artificial sand 2.03
7. Identify suitable foundation for black cotton soil 3.04
8. Define Underpinning. 4.02
9. Draw member layout of queen post truss 4.04

PART B

II. Answer any eight questions from the following, Each question carries 3 marks.

1. List the common defects in timber 1.03
2. Mention the types and uses of lime 1.02
3. Give the characteristics of good bricks 1.04
4. Explain about any three Agro-waste materials for construction 2.03
5. Discuss the construction method for steel buildings. 2.04
6. Give the classification of Paints 2.03
7. Draw the cross section of wall of a building showing all components 3.02
8. Suggest a type of foundation for a building in black cotton soil formation, with justification 3.04
9. List down the modern building blocks for masonry 4.01
10. Make a list of roofing materials to suit site conditions 4.04

marks

PART C

Answer ALL questions. Each question carries 7 marks.

III. Give the ecofriendly masonry blocks and their properties 1.04

OR

IV. Explain the methods quality checks for bricks 1.04

V. Explain the use and properties of special processed products HDF and PVC foam board.
2.04

OR

VI. Suggest any four low cost and ecofriendly materials for construction with their comparison with traditional materials 2.04

VII. Explain the detailed classification of foundations 3.04

OR

VIII. Explain the methods for timbering and shuttering. 3.03

IX. Prepare a schematic diagram of a raft foundation and give its suitability. 3 .04

OR

X. Suggest and justify type of foundation for expansive clay formations 3.04

XI. Explain the types of scaffoldings with the help of a sketches 4.02

OR

XII. Explain the suitability of pile foundations in field condition 4.04

XIII. Prepare sketches of types of windows 4.03

OR

XIV. Give a detailed note on eco-friendly roofing materials. 4.04

Question wise Analysis

Course :Building Construction and Construction Materials (version 2)

Q.No.	Module Outcome	Cognitive Level	Marks	Time
I.1	1.01	Remembering	1	3
I.2	1.03	Remembering	1	2
I.3	1.03	Remembering	1	2
I.4	2.03	Remembering	1	3
I.5	2.03	Remembering	1	2
I.6	2.03	Remembering	1	2
I.7	3.04	Understanding	1	3
I.8	4.02	Remembering	1	3
I.9	4.04	Applying	1	2
PART B				
II.1	1.03	Remembering	3	7
II.2	1.02	Understanding	3	7
II.3	1.04	Understanding	3	7
II.4	2.04	Remembering	3	7
II.5	2.03	Understanding	3	8
II.6	3.02	Remembering	3	7
II.7	3.04	Remembering	3	7
II.8	4.01	Applying	3	7
II.9	4.01	Understanding	3	7
II.10	4.04	Applying	3	8
PART-C				
III.	1.04	Understanding	7	16
IV	1.04	Understanding	7	17
V	2.04	Understanding	7	17
VI	2.04	Applying	7	17
VII	3.04	Understanding	7	16
VIII	3.02	Remembering	7	117
IX	3.04	Understanding	7	17
X	3.04	Applying	7	17
XI	4.02	Understanding	7	17
XII	4.04	Applying	7	17
XIII	4.03	Remembering	7	17
XIV	4.04	Applying	7	16

Course :Building Construction and Construction Materials (version 2)

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Mark Distribution

module	Hr/Module	Marks/module	Type of Questions							
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Total	60		9	9	10	30	12	84	31	123

Blue Print

Cognitive Level Mark Distribution

Cognitive Level	Marks	% of Marks
Remembering	33	27
Understanding	48	45
Applying	42	28
Analysing		
Evaluating		
Creating		
Total		100