NARSIMHA REDDY ENGINEERING COLLEGE
UGC AUTONOMOUS INSTITUTION
Maisammaguda (V), Kompally - 500100, Secunderabad, Telangana State, India
UGC - Autonomous Institute
Accredited by NBA & NAAC with 'A' Grade
Approved by AICTE
Permanently affiliated to JNTUH

UNIT WISE QUESTION BANK

UNIT–I

STONES AND BRICKS, TILES

S.No		Questions	BT	CO	PO
Part – A (Short Answer Questions)					
1		Why you choose stone as a building material?	L4	CO1	1,2
2		Write down the characteristics of good stone?	L1	CO1	1,2
3		What is the standard size of brick used for construction?	L1	CO1	1,2
4		List the different types of refractory bricks?	L1	CO1	1,2
5		How will you classify bricks? Write down the types of bricks?	L2	CO1	1,2
6		Write down the dimensions and tolerances in the concrete blocks according to B.I.S.	L1	CO1	1,2
7		Give the different classifications of stones, giving an example of each	L1	CO1	1,2
8		How is the hardness of brick tested?	L2	CO1	1,2
9		What are the components of brick earth?	L1	CO1	1,2
10		What are the alternative materials used in replacement of timber?	L1	CO1	1,2
Part – B (Long Answer Questions)					
11	a)	Explain the various tests to be conducted on stones to determine their suitability.	L2	CO1	1,2
	b)	List out the types of special bricks? Briefly explain any four of them	L1	CO1	1,2
12	a)	What are the various agencies which tend to reduce the life of a building stone?	L1	CO1	1,2
13	a)	What are the characteristics of first class bricks?	L1	CO1	1,2
	b)	Discuss the criteria for selection of stones as a building material.	L2	CO1	1,2
14	a)	Briefly discuss the defects and preservation of stones.	L2	CO1	1,2
	b)	What are the benefits of ceramic tile flooring?	L2	CO1	1,2

UNIT–II

CEMENT & ADMIXTURES

S.No		Questions	BT	CO	PO
Part – A (Short Answer Questions)					
1		What is cement? State the important ingredients in cement with their percentages.	L1	CO2	1,4
2		State four precautions to be taken while manufacturing of cement.	L2	CO2	1,4
3		Define the terms a) workability b)hydration	L1	CO2	1,4
4		State four important properties of cement.	L1	CO2	1,4
5		What is admixtures and Retarding admixtures.	L1	CO2	1,4
6		What are the types of admixtures	L1	CO2	1,4
7		State four precautions to be taken, while storing the cement	L1	CO2	1,4
8		Define initial setting time and final setting time of cement.	L1	CO2	1,4
9		Why Gypsum is added while manufacturing of cement	L4	CO2	1,4
10		What are the functions of admixtures	L2	CO2	1,4
Part – B (Long Answer Questions)					
11	a)	State the chemical composition of the cement with theirpercentage to achieve the desired quality of cement.	L2	CO2	1,4
	b)	State the various functions of ingredients with limitation	L1	CO2	1,4
12	a)	Distinguish about the manufacture of cement by dry process.	L4	CO2	1,4
13	a)	Give the properties of cement	L2	CO2	1,4
	b)	what is pozzolanic materials and give its properties,	L1	CO2	1,4
14	a)	Give the advantages and disadvantages of pozzolanic cement	L1	CO2	1,4
15	b)	what is admixture and state functions in concrete.	L1	CO2	1,4
16	a)	State the classification of admixtures for general purposes explain in briefly.	L1	CO2	1,4

UNIT – III
MOTAR MASONARY FINISHES & FARMWORK

S.No		Questions	BT	CO	PO
Part – A (Short Answer Questions)					
1		Define arch .what are the components of an arch?	L1	CO3	1,6
2		Define the following terms: i) Span of an arch ii) Rise of an arch.	L1	CO3	1,6
3		Define lintel. Classify lintels.	L1	CO3	1,6
4		Explain about the types of roofs.	L2	CO3	1,6
5		What are the advantages of damp proof coursing	L2	CO3	1,6
6		Define the following: i) Step iii)riser ii) Thread iv) nosing	L1	CO3	1,6
7		Explain the following sanitary fittings with neat sketches i) Wash basins ii) Bath tub	L2	CO3	1,6
8		Define water distribution system and acoustic design.	L1	CO3	1,6
9		Explain about the characteristics of acoustic	L2	CO3	1,6
10		Classify among fire resistant materials	L2	CO3	1,6
Part – B (Long Answer Questions)					
11	a)	What are different types of arches that are used for engineeringconstruction? Describe any three types in detail with sketches.	L3	CO3	1,6
12	a)	State the various types of stairs through flow diagrams.	L3	CO3	1,6
	b)	Define roof covering? What are various types in roof covering commonly, used in India? Explain in detail.	L2	CO3	1,6
13		Explain in detail various types of building foundations.	L2	CO3	1,6
14	a)	What do you Understand by a) Ventilation b) Air conditioning Explain the necessity of each of them?	L2	CO3	1,6
	b)	Write a short note on: a) Storage tanks b) Water requirements of building c) Materials for service pipe	L2	CO3	1,6
15	a)	What is acoustics? State various types of sound absorbing materialsaccording to mode of their performance.	L2	CO3	1,6
	b)	Explain the various types of fire protection systems in detail.	L2	CO3	1,6

UNIT – IV
MOTAR MASONARY FINISHES & FARMWORK

S.No		Questions	BT	CO	PO
Part – A (Short Answer Questions)					
1		Write down the general requirements of mortars?	L1	CO4	1,3
2		Differentiate between brick masonry and stone masonry	L4	CO4	1,3
3		Define the following terms : i) Masonry, ii) precast iii) concrete block masonry	L1	CO4	1,3
4		Explain about the types of bonds in brick work	L2	CO4	1,3
5		Explain about tools used in brick masonry	L2	CO4	1,3
6		Define and explain about the importance of form work	L1	CO4	1,3
7		List any three reasons why concrete is used as a building material.	L1	CO4	1,3
8		State the principles of form work design	L1	CO4	1,3
9		Explain about the purpose of plastering	L2	CO4	1,3
10		Define the following: i) back ground ii) blistering	L1	CO4	1,3
Part – B (Long Answer Questions)					
11		What is brick masonry? State and explain briefly the various classifications of brick masonry.	L2	CO4	1,3
12		Describe the ashlar stone masonry and state its uses in construction of structures.	L2, L3	CO4	1,3
13		Define the terms in masonry: 1) Header, 2) Stretcher, 3) Course, 4) Quoin, 5) Facing, 6) queen closer, 7) King closer, 8) Jams	L1	CO4	1,3
14	a)	Mention the objectives ofproviding painting and plastering to the proposed surface.	L3	CO4	1,3
	b)	State and explain briefly the various types of plastering alongwith their suitability in the building works.	L2	CO4	1,3
15	a)	What is scaffolding. State different types of scaffolding.	L1	CO4	1,3
	b)	Explain different types of scaffolding with neat sketches.	L2	CO4	1,3
16		What is form work? What are the stages involved in construction of formwork? Explain briefly.	L2	CO4	1,3

UNIT - V
BUILDING PLANNING

S.No		Questions	BT	CO	PO
Part – A (Short Answer Questions)					
1		Define building planning. State its significance.	L1	CO5	1,6
2		Write briefly the factors affecting building planning.	L1	CO5	1,6
3		Write any four basic principles of building planning?	L1	CO5	1,6
4		What is orientation? state the factors affecting orientation	L1	CO5	1,6
5		What is a local authority? And state its functions.	L1	CO5	1,6
6		Define floor area ratio	L1	CO5	1,6
7		Classify the building based on their occupancy.	L2	CO5	1,6
8		Classify the building based on type on construction.	L2	CO5	1,6
9		Define open space	L1	CO5	1,6
10		What are the points to be considered while selecting a site for any particular building?	L1	CO5	1,6
Part – B (Long Answer Questions)					
11	a)	State and explain the various basic principles of building planning?	L2	CO5	1,6
	b)	What is meant by orientation and state the factors affecting the orientation of building?	L4	CO5	1,6
12	a)	Explain briefly the practical considerations in building planning?	L2	CO5	1,6
	b)	What are the factors to be considered while selecting site for any practical building.	L2	CO5	1,6
13	a)	Explain the significance of building planning and scope of building planning.	L2	CO5	1,6
	b)	Explain the various types of classification of building.	L2	CO5	1,6
14	a)	Explain various principles underlying building bye-laws.	L2	CO5	1,6
	b)	Explain briefly the following principles in planning the building: a) Circulation b) Privacy c) Sanitation	L2	CO5	1,6
15	a)	Explain briefly the factors affecting building planning	L2	CO5	1,7
	b)	Explain the following terms : i) Floor area ratio ii) Floor space index	L2	CO5	1,6

16	a)	State and explain the various basic principles of buildingplanning?	L1 L2	CO5	1,6
	b)	What is meant by orientation and state the factors affecting the orientation of building?	L1	CO5	1,6

*** Blooms Taxonomy Level (BT)** (L1 – Remembering; L2 – Understanding; L3 – Applying: L4 – Analyzing;L5 – Evaluating; L6 – Creating)

Course Outcomes (CO) Program

Outcomes (PO)