GEETHANJALI INSTITUTE OF SCIENCE & TECHNOLOGY
(AN AUTONOMOUS INSTITUTION)
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(Accredited by NAAC with "A" Grade, NBA (EEE,ECE &ME) & ISO9001:2008CertifiedInstitution)

QUESTIONBANK(DESCRIPTIVE)

Subject Name with Code: BUILDING MATERIALS & 22A0149T
Course & Branch: B.Tech-CS, DS, CSE,AIML
Year& Semester: III & I **Regulation: RG22**

UNIT - I

S.No.	Question	[BT Level] [CO][Marks]
2 Marks Questions (Short)		
1.	List out classification of stones?	**L2 CO1 2M**
2.	Define Dressing of a stone	**L2 CO1 2M**
3.	List out types of stone masonry	**L2 CO1 2M**
4.	List out composition of brick manufacture process	**L2 CO1 2M**
5.	What is the weight of the standard brick and how many are required per cubic meter of brick masonry?	**L2 CO1 2M**
6.	Define Fat Lime	**L2 CO1 2M**
7.	Define cement	**L2 CO1 2M**
8.	What is the main composition of cement and List out process of manufacture of cement	**L2 CO1 2M**
9.	Define Sapwood	**L2 CO1 2M**
10.	Define seasoning of Timber	**L2 CO1 2M**
Descriptive Questions (Long)		
11.	Explain briefly the following with respect to stone as building material with necessary sketches: (i) Quarrying. (ii) Dressing of stone. (iii) Preservation of stone	**L2 CO1 12M**
12.	Explain general principles of Stone masonry construction and types of stone masonry with neat sketches	**L2 CO1 12M**
13.	What are the field tests conducted for good quality bricks and explain the manufacturing process of bricks	**L2 CO1 12M**
14.	Explain characteristics of brick bond in brick masonry and types of brick bonds with neat sketches	**L2 CO1 12M**
15.	Explain the process, properties, classification of lime in detail	**L2 CO1 12M**
16.	Explain composition of cement & any one of the manufacturing process of cement with neat sketch	**L2 CO1 12M**
17.	What are the tests to be conducted on cement explain any one of the test in detail	**L2 CO1 12M**
18.	Explain production process and characteristics of timber	**L2 CO1 12M**
19.	Explain preservation & defects of timber in detail	**L2 CO1 12M**
20.	Illustrate seasoning of timber	**L2 CO1 12M**

UNIT - II

S.No.	Question	[BT Level] [CO][Marks]
2 Marks Questions (Short)		
1.	What is function of lintel	**L2 CO2 2M**
2.	Define abutment in arch	**L2 CO2 2M**
3.	List out types of arches based on shape	**L2 CO2 2M**
4.	Write difference between traditional and modern vaults	**L2 CO2 2M**
5.	Define Rise and thread	**L2 CO2 2M**
6.	Define lift or elevator	**L2 CO2 2M**
7.	List out materials used in flooring	**L2 CO2 2M**
8.	Define Deck roof with neat sketch	**L2 CO2 2M**
9.	Sketch the king post and queen post truss with elements	**L2 CO2 2M**
10.	List out components of door and window	**L2 CO2 2M**

Descriptive Questions (Long)		
11.	Explain Lintel in detail with classification	**L2 CO2 12M**
12.	Illustrate arch with neat sketch including technical terms along stability of arch	**L2 CO2 12M**
13.	Interpret vaults with elements and types of vaults in detail	**L2 CO2 12M**
14.	Expound stair with technical terms and classification with neat sketch	**L2 CO2 12M**
15.	Explain elevator with neat sketch include components	**L2 CO2 12M**
16.	Describe flooring and types of flooring	**L2 CO2 12M**
17.	Explain Pitched Roof and lean to roof with neat sketch	**L2 CO2 12M**
18.	Illustrate with neat sketch i. King post truss ii. Queen post truss iii. Coupled roof	**L2 CO2 12M**
19.	Explain factors to be considered for door selection and types of doors	**L2 CO2 12M**
20.	Illustrate components and types of windows	**L2 CO2 12M**

UNIT - III

S.No.	Question	[BT Level] [CO][Marks]
2 Marks Questions (Short)		
1.	Define Damp proofing	**L2 CO3 2M**
2.	What is DPC?	**L2 CO3 2M**
3.	List out materials used in damp proofing	**L2 CO3 2M**
4.	Where cavity wall used in damp proof	**L2 CO3 2M**
5.	Lit out methods used in treatment of basements	**L2 CO3 2M**
6.	Justify is bitumen is good material for damp proof course	**L2 CO3 2M**
7.	In which ratio cement concrete used in damp proof course	**L2 CO3 2M**
8.	How rain water will effect building without damp proof	**L2 CO3 2M**
9.	Justify labour skill will cause of dampness?	**L2 CO3 2M**
10.	Illustrate building components where dampness occurs?	**L2 CO3 2M**
Descriptive Questions (Long)		
11.	Explain causes and effects of dampness	**L2 CO3 12M**
12.	Illustrate precautions to be taken for causes of dampness	**L2 CO3 12M**
13.	Describe effects of dampness and illustrate the materials used to prevent dampness	**L2 CO3 12M**
14.	Illustrate methods of damp proofing with neat sketches	**L2 CO3 12M**
15.	Explain any two materials used to prevent dampness and treatment to foundations against gravitational water	**L2 CO3 12M**
16.	Describe damp proof course treatment to basement with neat sketches	**L2 CO3 12M**
17.	Interpret damp proof course treatment for roofs and walls	**L2 CO3 12M**
18.	Explain causes of dampness and treatment of DPC in flooring with neat sketch	**L2 CO3 12M**
19.	Describe precautions of dampness and Provision of foundation drains and DPC with neat sketch	**L2 CO3 12M**
20.	Describe Provision of R.C.C. raft and wall slab and asphalt tanking with neat sketches	**L2 CO3 12M**

UNIT - IV

S.No.	Question	[BT Level] [CO][Marks]
2 Marks Questions (Short)		
1.	List out any five basic principles of planning	**L2 CO4 2M**
2.	Abbreviate NBC	**L2 CO4 2M**
3.	Define Part2 of NBC 2005	**L2 CO4 2M**
4.	What are the general utilities in a residential building	**L2 CO4 2M**
5.	Define Part8 of NBC 2005	**L2 CO4 2M**
6.	Draw a neat sketch of aspect in planning	**L2 CO4 2M**
7.	List out benefits of energy efficiency in planning	**L2 CO4 2M**
8.	Define Part5 of NBC 2005	**L2 CO4 2M**
9.	Define prospect in terms of planning	**L2 CO4 2M**
10.	What is purpose of NBC	**L2 CO4 2M**
Descriptive Questions (Long)		

11.	Explain principles of planning in detail	**L2 CO4 12M**
12.	Explain orientation of building planning with any five basic principles of planning	**L2 CO4 12M**
13.	Illustrate planning for energy efficiency	**L2 CO4 12M**
14.	Describe planning based on utility of water distribution system	**L2 CO4 12M**
15.	Illustrate planning based on utility on storage tanks and house drainage system with neat sketch	**L2 CO4 12M**
16.	Explain planning based on utility on system of plumbing with neat sketch	**L2 CO4 12M**
17.	Illustrate planning based on utility on electric supply system along with earthwork with neat sketches	**L2 CO4 12M**
18.	Explain how NBC will use for principles of building planning	**L2 CO4 12M**
19.	Illustrate salient features of NBC	**L2 CO4 12M**
20.	Describe planning of energy efficiency with planning based on utilities	**L2 CO4 12M**

UNIT - V

S.No.	Question	[BT Level] [CO][Marks]
2 Marks Questions (Short)		
1.	Define Zoning	**L2 CO5 2M**
2.	List out aspects in zoning	**L2 CO5 2M**
3.	What are advantages of zoning	**L2 CO5 2M**
4.	Define base line	**L2 CO5 2M**
5.	List out types of buildings	**L2 CO5 2M**
6.	Define building bye laws	**L2 CO5 2M**
7.	List out any five aspects of building bye laws	**L2 CO5 2M**
8.	Define plinth area	**L2 CO5 2M**
9.	Define FAR with formula	**L2 CO5 2M**
10.	Define FSI	**L2 CO5 2M**
Descriptive Questions (Long)		
11.	Describe zoning regulations with site layout design	**L2 CO5 12M**
12.	Explain Building bye laws and regulations	**L2 CO5 12M**
13.	Illustrate Rules for special types of buildings in detail	**L2 CO5 12M**
14.	Describe principles underlying Building bye laws with FAR and FSI	**L2 CO5 12M**
15.	Illustrate Building area in detail	**L2 CO5 12M**
16.	Explain space requirement for a Building-Point to be considered	**L2 CO5 12M**
17.	Describe Terminology used in building bye laws 2016	**L2 CO5 12M**
18.	Explain i. objectives and scope of building bye laws ii. Plinth area and carpet area	**L2 CO5 12M**
19.	Explain functionalities of BIS in detail	**L2 CO5 12M**
20.	Illustrate on i. BIS ii. FAR iii. FSI	**L2 CO5 12M**

Signature of the Staff:

Signature of Department Academic Committee Member 1:

Signature of Department Academic Committee Member 2:

Signature of Department Academic Committee Member 3: