Course Code: 19CE0105 **R19**

SIDDHARTH GROUP OF INSTITUTIONS:: PUTTUR
(AUTONOMOUS)
Siddharth Nagar, Narayanavanam Road – 517583

QUESTION BANK (DESCRIPTIVE)

Subject with Code: BMC(19CE0105) **Course & Branch**: B.Tech - CE

Year & Sem: II-B.Tech & I-Sem **Regulation:** R19

UNIT –I
STONES, BRICKS AND WOOD

1	a. List the classifications of rocks and explain the classification based on geological formation. b. Describe the characteristics of good building stones.	[L1][CO1] [L1][CO1]	**[06M]** **[06M]**
2	a. Explain the defects caused due to seasoning of timber. b. What are the objects of preservation of timber?	[L2][CO1] [L1][CO1]	**[06M]** **[06M]**
3	a. Explain different types of shakes in timber b. Explain defects due to seasoning	[L2][CO1] [L2][CO1]	**[06M]** **[06M]**
4	a. Explain various quarrying methods of stone along with their importance. b. Explain the process of burning bricks in Hoffman's kiln with a neat sketch	[L2][CO1] [L2][CO1]	**[06M]** **[06M]**
5	Classify the bricks and explain the working of Hoffman's kin for the burning of bricks	[L2][CO1]	**[12M]**
6	a. Explain various types of seasoning of Timber. b. What are the characteristics of good timber and its common uses in building industry?	[L2][CO1] [L1][CO1]	**[06M]** **[06M]**
7	a. Mention the factors to be considered while deciding a quarry site. b. Explain methods of quarrying.	[L1][CO1] [L2][CO1]	**[06M]** **[06M]**
8	a. Explain the tests required to determine the suitability of bricks for construction work. b. With a neat sketch, explain the parts of Bull's trench kiln.	[L2][CO1] [L2][CO1]	**[06M]** **[06M]**
9	a. Write about the classification of Trees. b. Describe the most common types of defects associated with timber.	[L1][CO1] [L2][CO1]	**[06M]** **[06M]**
10	Write about manufacturing and defects of bricks?	[L1][CO2]	**[06M]**

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UNIT –II
CEMENT, CONCRETE, MISCELLANEOUS MATERIALS

1	a. What are the properties of cement? b. Explain briefly about consistency of cement with test procedure.	[L1][CO3] [L2][CO3]	**[06M]** **[06M]**
2	How the ordinary Portland cement will be manufactured by using wet and dry process. .	[L1][CO2]	**[12M]**
3	a. What are the different field tests performed on cement. b. Explain in detail about various components of cement	[L1][CO3] [L1][CO1]	**[06M]** **[06M]**
4	a. What are various laboratory tests performed on cement? Explain any two. b. Explain in detail about Workability of cement with neat sketch.	[L1][C03] [L1][CO3]	**[06M]** **[06M]**
5	a. Briefly explain about setting time of cement b. Write down about Segregation and bleeding of concrete.	[L1][CO3] [L1][CO3]	**[06M]** **[06M]**
6	In detail explain about mixing and vibration of concrete.	[L1][CO3]	**[12M]**
7	Write briefly about any two tests conducted for workability of concrete in laboratory?	[L1][CO3]	**[12M]**
8	Write a short note on gypsum and rubber along with uses of them in daily life applications.	[L2][CO1]	**[12M]**
9	a. In detail Explain about the storage of cement. b. Explain the setting time of concrete. b. What is meant by setting time of concrete explain elaborately.	[L2][CO1] [L1][CO3]	**[06M]** **[06M]**
10	Write about. a.Pigiron b.Cast iron c.Glass d.Asbestos e.Steel f.Timber	 [L1][CO1] [L1][CO1] [L1][CO1] [L1][CO1] [L1][CO1] [L1][CO1]	 **[02M]** **[02M]** **[02M]** **[02M]** **[02M]** **[02M]**

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UNIT –III
PAINTS & DISTEMPERS, HIGHWAY MATERIALS

1	Briefly explain about composition and preparation of paint. .	[L1][CO1]	**[12M]**
2	Write a short note on following given below a. How to apply Distemper on a surface? b. How to apply White wash and colour wash on a surface?	 [L1][CO6] [L1][CO6]	 **[06M]** **[06M]**
3	a. What is meant by soundness of aggregate explain briefly? b. Differentiate between fine aggregates and coarse aggregates.	[L1][CO3] [L1][CO1]	**[06M]** **[06M]**
4	a. How the sieve analysis test will be performed on coarse aggregate in laboratory? b. With neat sketch explain in detail about crushing test on aggregates.	[L1][CO3] [L1][CO3]	**[06M]** **[06M]**
5	Briefly explain about painting on wood surface and metal surface.	[L1][CO6]	**[12M]**
6	What are the mechanical properties of coarse aggregate?	[L2[CO3]	**[12M]**
7	In detail explain about painting on plastered surface.	[L1][CO6]	**[12M]**
8	What are the different tests will be conducted on bitumen in laboratory, explain any two tests with necessary specifications.	[L1][CO3]	**[12M**
9	a. Briefly explain about composition of oil paint. b. What is the procedure for preparation of pint, Explain briefly?	[L1][C01] [L1][CO1]	**[06M]** **[06M]**
10	What is meant by aggregate impact value? Explain the test procedure to conduct aggregate impact test with neat sketch.	[L1][CO3]	**[12M]**

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UNIT –IV
FOUNDATION & MASONARY

1	a. What are the functions of foundation? b. What are the requirements for good foundation?	[L2][CO5] [L2][CO5]	**[06M]** **[06M]**
2	What are the loads acting on foundation of a building?	[L2][CO4]	**[12M]**
3	How the foundation will be laid for a building, explain briefly.	[L2][CO6]	**[12M]**
4	Explain briefly about Foundation failures with neat sketch.	[L2][CO5]	**[12M]**
5	What are the different types of foundations based on depths, explain them with neat sketch?	[L1][CO5]	**[12M]**
6	a) What is masonry? b) What are the different types of stone masonry?	[L1][CO2] [L1][CO1]	**[06M]** **[06M]**
7	Explain briefly about different types of bonds in stone masonry.	[L2][CO2]	**[12M]**
8	a. Differentiate between brick and stone masonry. b. What are the different terms used in masonry?	[L1][CO1] [L1][CO1]	**[06M]** **[06M]**
9	In detail explain about bond formation in brick masonry with neat sketch.	[L2[CO1]	**[12M]**
10	What are remedial measures to be taken in order to prevent foundation failures?	[L1][CO5]	**[12M]**

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UNIT –V
LINTELS & ARCHES, PLASTERING AND POINTING, STAIRS

1	a. What is lintel explain with neat sketch? b. Briefly explain why and were lintels are used?	[L1][CO4] [L2][CO4]	**[06M]** **[06M]**
2	Explain in detail about different terms used in Arches.	[L2][CO4]	**[12M]**
3	Draw a neat diagram of lintel and explain any two lintels based on materials used.	[L2][CO4]	**[12M]**
4	What are the different terms used in stair case explain them with neat diagrams.	[L1][CO4]	**[12M]**
5	What are the different types of mortars used for plastering explain in detail.	[L2][CO1]	**[12M]**
6	Explain briefly about different methods used for plastering on a wall.	[L1][CO6]	**[12M]**
7	a. What is an arch, give any two examples for arches? b. Classify different types of arches based on materials used.	[L1][CO4] [L1][CO4]	**[06M]** **[06M]**
8	Explain in detail about classification of stairs with examples.	[L1][CO4]	**[12M]**
9	a. Write a short note on defects in plastering. b. Explain briefly about pointing.	[L1][CO1] [L1][C01]	**[06M]** **[06M]**
10	What are the different types of mortars used for plastering explain in detail?	[L1][CO1]	**[12M]**

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