

Siddharth Nagar, Narayanavanam Road – 517583

QUESTION BANK (DESCRIPTIVE)

Subject with Code: MTE (18CE0110)	Course & Branch: B.Tech – CE	
Year & Sem: II B. Tech & II Sem	Regulation: R18	
UNIT-I		
1.a) List the classifications of rocks and explain the class formation.	sification based on geological 5M	
b) Describe the characteristics of good building stones.	5M	
2. (a) Explain the defects caused due to seasoning of tim	iber. 5M	
(b) What are the objects of preservation of timber?	5M	
3. Classify the bricks and explain the working of Hoffm	an's kin for the burning of bricks10M	
4. (a) Explain different types of shakes in timber.	5M	
(b) Explain defects due to seasoning	5M	
5. (a) Explain various quarrying methods of stone along	with their importance. 5M	
(b) Explain the process of burning bricks in Hoffman	's kiln with a neat sketch 5M	
6. (a) Explain various types of seasoning of Timber.	5M	
(b) What are the characteristics of good timber and its c	ommon uses in building industry?5M	
7. (a) Mention the factors to be considered while decidin	ng a quarry site. 5M	
(b) Explain methods of quarrying.	5M	
8. (a) Explain the tests required to determine the suitability(b) With a neat sketch, explain the parts of Bull's trench		
9. a) Write about the classification of Trees	5M	
b) Describe the most common types of defects associa	ated with timber. 5M	
10.Write about manufacturing and defects of bricks?	10M	

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UNIT-II

1.a) What are the properties of cement	5M
b) Explain in detail about the procedure to find consistency of cement	5M
2. Write about manufacturing of ordinary cement.	5M
3. a) What are the field tests of cement	5M
b) What are the ingredients of cement? Explain them	5M
4. a) Explain chemical composition of paint?	5M
b) Give the Flowchart for the preparation of Paint?	5M
5.a) Define Distemper and varnish?	5M
b) Write about painting plastered surfaces and painting metal surfaces?	5M
6. What are the defects in paint and explain any five of them?	10M
7.Explain about white wash and color wash?	10M
8. a) Explain soundness and fineness test on cement?	5M
b What is the test procedure for specific gravity of cement?	5M
9.a) Write about gypsum and rubber	5M
b) write about dry and wet process of cement?	5M
10.Write about	10M

a. Pig iron b. Cast iron c. Steel d. Glass e. Asbestos



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UNIT-III

1.Write about classification of aggregates	
2. What are the mechanical properties of coarse aggregates	10M
3. a. What do you mean by soundness of aggregate? Explain	5M
b. What is alkali-aggregate reaction? And how will it affect the concrete properties.	5M
4. a. How do you conduct sieve analysis on coarse aggregate in laboratory?	5M
b. Explain the test procedure for aggregate impact value test?	5M
5. Describe briefly the classification of tar and the specifications of bitumen as a buildin material.	g 10M
6. What are the mechanical properties of coarse aggregate?	10M
7.Write about M sand and explain the tests and testing of sand?	
8.What are the bituminous mixes?	10M
9.Describe tests and testing of bitumen?	10M
10.Write about	10M
a. Bitumen material	
b. asphaltic material	
c.Aggregate crushing value	
d.seive analysis of aggregate	
e. aggregate impact value	

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UNIT-IV

1. Explain in detail the slump test with the help of a neat sketch. Discuss its merits	and
limitations.	10M
2. a. What do you understand by the term "Workability"?	5M
b. Discuss the various factors affecting the workability of concrete.	5M
3. Explain briefly the different methods to measure the workability of concrete?	10M
4. Briefly explain the manufacturing procedure of concrete.	10M
5. a. Explain the phenomenon of gain of strength of concrete with age.	5M
b Calculate the Gel/space ratio and the theoretical strength of a sample of concr	ete made
with 500 gms of cement and 0.6 w/c ratio, on full hydration and 70% hydration.	5M
6. a. What are the various factors affecting the properties of Fibre Reinforced cond	crete? 5M
b. Write the various applications of Fibre Reinforced concrete.	5M
7. Explain briefly self-compacting concrete including the advantages and disadvar	ntages
8. a. What is light weight concrete? How is it produced?	5M
b. What are the light weight aggregate concrete?	5M
9.Write about mixing and vibration of concrete?	10M
10.Write about	10M
a. High performance concrete	
b. polymer concrete	
c.fiber reinforced concrete	
d.light weight concrete	
e. ceramics	





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UNIT V

1. What is Elasticity and explain characteristics of Elasticity?	10M
2.Explain plastic deformation of metals and Tensile test?	10M
3.Define True stress-strain interpretation of tensile test?	10M
4.Discuss about Hardness test and different types of hardness tests for material?10M	
5.Explain about bending and torsion test?	10M
6.What is creep and write about factors affecting on creep?	10M
7.What is the brittle fracture of steel?	10M
8.Write about strength of ceramic and internal friction of material?	10M
9. Expalin about temperature transition approach of materials?	10M
10.Discuss about standards of different materials?	10M
a. Brittle	

b. Quasi brittle

c. Elastic

QUESTION BANK 2020

TWO MARK QUESTIONS

<u>UNIT –I</u>

STONES BRICKS WOOD

1. What ate the classification of rocks and define igneous rock?

2. Give any four uses of stones

3. What are the characteristics of good building stones?

4. What are the precaution should be taken in blasting?

5. What are the Classification of bricks?

6.List the defects of bricks and define ant two of them

7. What are the ingredients and harmful substances in brick earth.

8. What are the classification of trees and Timber

9. What are the Characteristics and structural components of timber?

10.List the different types of Seasonings and diseases of Timber?

<u>UNIT –II</u>

CEMENT PAINTS& DISTEMPERS MISCELLANEOUS MATERIALS

1.Define Cement and list the properties of cement

2. What are the field & laboratory tests of cement

3. Give the composition of ordinary cement how the storage of cement

4.Define distemper and Varnish

5.List the defects of Paint and draw the flowchart for the preparation of paint

6.Define Pig iron and Cast iron

7. Give the composition and manufacturing methods of steel?

8. What are the uses of Glass and rubber as a Building material?

<u>UNIT –III</u>

BITUMEN & AGGREGATES

1.Define Bitumen and Asphalt.

2. What are the properties of Bitumen

3.List the different types of test for bitumen

4. Give the classification of Aggregates

5. What are the mechanical properties of aggregates

<u>UNIT –IV</u>

CONCRETE & SPECIAL CONCRETE

1. What are activities normally followed during concreting?

2. Define workability and factors affecting workability?

3. What are the different test to measure the workability?

4. What is the difference between Light weight concrete and High performance concrete

5. What are the Vibrators used for compacting and Name some concrete chemicals?

<u>UNIT –V</u> MECHANICAL BEHAVIOUR AND MECHANICAL CHARACTERISTICS

1.Give the principle and characteristics of Elasticity?2.What are the different types of hardness test?3.Define true stress and plastic deformation of metals?

4. Give any two fundaments and characteristics of creep?

5. What is the temperature transition approach?