QUESTION BANK 2016



SIDDHARTH GROUP OF INSTITUTIONS :: PUTTUR

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QUESTION BANK AND OBJECTIVES

Subject with Code : BMC(15A01302)

Course & Branch: B.Tech - CE

Year & Sem: II-B. Tech & I-Sem

Regulation: R15

UNIT –I

INTRODUCTION TO BUILDING MATERIALS

- 1. What are the characteristics of good building stones and explain it?
- 2. What is meant by quarrying of building stones and brief explain the dressing of stones and varieties of finishes?
- 3. Describe the manufacturing process of bricks and explain it?
- 4. What are the classification of bricks and explain it?
- 5. What is artificial stone? Explain procedure adopted in making artificial stone and forms of artificial stones?
- 6. How to selection for low cost housing and briefly explain?
- 7. What are the ceramic materials? Name some of important ceramic materials? Explain manufacturing process?
- 8. What are the waste materials from buildings and how they utilize these materials?
- 9. Explain the sustainable materials in construction?
- 10. a) What is traditional and organic building materials?
 - b) What is the composition of a good brick earth?
 - c) What are the tools for stone quarrying?
 - d) What is kiln and types of kiln?
 - e) What is pug mill?

Objectives

1. A good brick when immersed in wat	er bath for 24 hours, should not absorb wat	ter more	than
(a) 20% of its dry weight(c) 10% of its saturated weight	(b) 15 % of its saturated weight(d) 20% of its saturated weight	[]
2. The number of bricks required per cubic meter of brick masonry is		[]
(a) 400	(b) 450	-	-
(c) 500	(d) 550		
3. Excess of silica makes brick		[]
(a) Brittle on burning	(b) To melt on burning		
(c) To crack on drying	(d) To warp.		
4. In the process of brick manufacturing the	pug mill is used in which of the following	operatio	on?
-		[]
(a) Weathering	(b) Blending		

(a) Weathering

(b) Blending

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(c) Tempering	(d) Burning		
5. Bricks are burnt at a temperature range of		[1
(a) 500° to 700° C (c) 900° to 1200° C	(b) 700° to 900° C (d) 1200° to 1500° C	L	-
6. For centering of R.C.C. structures the bric	cks used should be	[]
(a) Ist Class(c) IIIrd Class	(b) IInd Class(d) IVth Class		
07. The weight of a standard brick should be		[]
(a) 1000 g (c) 2500 g	(b) 1500 g (d) 3000 g		
08. A heavy stone is suitable for		[]
(a) Arches(c) Roads09. The preparation of surface of stone to a shape is known as	(b) Rubble masonry (d) Retaining walls obtain plain edges or to obtain stones of re	quired	1 size ar]
(a) Quarrying of stones(c) Seasoning of stone10. The main function of alumina in brick ea	(b) Blasting of stones(d) Dressing of stonesarth is	[]
(a) To impart plasticity(c) To prevent shrinkage11. The percentage of alumina in a good brid	(b) To make the brick durable(d) To make the brick impermeableck earth lies between	[]
 (a) 5 to 10% (c) 50 to 60% 12. Excess of alumina in brick earth makes to the second sec	(b) 20 to 30% (d) 70 to 80% the brick	[]
(a) Impermeable(c) To lose cohesion13. The nominal size of the modular brick is	(b) Brittle and weak(d) to crack and warp on drying	[]
 (a) 190 mm x 90mmx 80 mm (c) 200 mm x 100 mm x 100 mm 14. Percentage of silica in a good brick earth 	(b) 190 mm x 190 mm x 90 mm (d) 200 mm x 200 mm x 100 mm n lies between	[]
 (a) 5 to 10% (c) 50 to 60% 15. Excess of silica in brick earth results in 	(b) 20 to 30% (d) 70 to 80%	[]
(a) Cracking and warping of bricks(c) Enhancing the impermeability of16. Which of the following ingredients of th		hape?	

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	[]	
(a) Alumina	(b) Silica	
(c) Iron	(d) Magnesia	
17. Which of the following pairs gives a correct		tuen
respectively of a good brick earth?		
(a) Lime stone and alumina	(b) Silica and alkalies	
(c) Alumina and iron	(d) Alkalies and magnesium	
18. Pug mill is used for	(a)	
(a) Preparation of clay	(b) Molding of clay	
(c) Drying of bricks	(d) Burning of bricks	
19. Glazing is used to make earthenware		
(a) Hard	(b) Soft	
(c) Porous	(d) Impervious	
20. The red color of the brick is due to		
(a) Iron oxide	(b) Silica	
(c) Magnesia	(d) Alumina	
21. Organic material are derived directly from		
	(h) Ovugan	
(a) Hydrogen	(b) Oxygen (d) Non Matallia	
(c) Carbon	(d) Non-Metallic	
22 exhibits highest compressive strength		
(a)Granite	(b) Gneiss	
(c) Limestone	(d) Laterite	
23. Stoneware products are usually		
(a) Hard	(b) Impervious to moisture	
(c) Compact	(d) All of the above	
24. Hard silicious rocks which could not be scrate	hed by knife represent a hardness of	
(a) 2	(b) 4	
(c) 6	(d) 7	
25. Sandstone are general weak in		
(a) Hardness	(b) Abrasion	
(c) Compression	(d) All of the above	
26. Excess of alumina in clay in bricks	[]	
(a) Makes the bricks crack and wrap on dr		
(c) Makes bricks wrap on dry	(d) Makes brick dense and sound	
27. Hollow bricks are used for	[]	
(a) Ornamental designs	(b) Increasing the bearing area	
(c) Resistive towards heat	(d) Earthquake proof	
28. Excess of silica in clay for bricks	[]	
(a) Makes brick hard and sound	(b) Makes bricks crack and wrap on dry	
(c) Imparts deep redcolour to bricks	(d) improves durability and impermeability	
29. The indentation marks left on bricks during the	e process of molding are known as	
(a) Fillets	(b) Frogs	
(c) Marks	(d) Projections	
30. A bull nose brick is not used in	[]	
(a) Walls	(b) Arches	
(C) Pillars	(d) Rounding of sharp corners	
31. Fire bricks are always set in a mortar of	[]]	
(a) Fire clay	(b) Cement	
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(c) Lime	(d) All of the above			
32. Crushing strength of first class brick		[]	
(a) $3N/mm^2$	(b) 5.5 N/mm ²	_	_	
(c) 0.3 N/mm ²	(d) 10.5 N/mm ²			
33. Which of the following has high percentage of	of water absorption by dry v	veight		
		[]	
(a) Common building bricks	(b) Engineering bricks			
(c) Pressed bricks	(d) Fire bricks			
34. Thickness of galze		[]	
(a) 0.5mm	(b) 0.1mm			
(c) 0.01mm	(d) 1mm			
35. Efflorescence is caused by		[]	
(a) Low silica content	(b) Alkaline salts			
(C) High pH of water during pugging	(d) All of the above			
36. Characteristic of a good tile		[]	
(a) Uniform color	(b) Properly burnt			
(c) Durable	(d) All of the above			
37. Color of Mangalore tile		[]	
(a) Red	(b) Pink			
(c) White	(d) Yellow			
38. Refractory bricks resist		[]	
(a) High temperature	(b) Dampness			
(c) Chemical action	(d) Shocks and vibration	ns		
39. Major constituent of fireclay		[]	
(a) Hydrocarbon	(b) Lime			
(c) Iron oxide	(d) Hydrated aluminum	silicate		
40. Expected moisture content of dry brick	-	[]	
(a) 2%	(b) 6%			
(c) 7%	(d) 8%			