



## **BRAINWARE UNIVERSITY**



Time: 2:30 Hours

Programme – B.Tech.(CE)]-2021

Course Name – Building Planning and Materials

Course Code - PCC-CE303

(Semester III)

Full Marks: 60	Time . 2.50 Hours
[The figure in the margin indicates full marks. Candid words as far a	dates are required to give their answers in their own spracticable.]
Grou	лр-А
(Multiple Choice	Type Question) 1 x 15=15
1. Choose the correct alternative from the following	ı:
(i) A window should be located on which of the fol point of view of fresh air?	lowing side of a room as seen from the
a) Western	b) Eastern
c) Southern	d) Northern
(ii) Seasoning of timber is the process of:	
a) Burning timber	b) Adding preservatives
c) Removing water	d) Adding glaze
(iii) The plywood	
a) Can be spilt in the plane of the panel	<ul> <li>b) Cannot be bent more easily than ordinary wood of same thickness</li> </ul>
c) Has greater impact resistance to blows then ordinary wood	d) Has good strength along the panel only
(iv) The is a mixture of cement, sand, p when placed in the skeleton of forms and are al	lebbles or crushed rock and water, which, lowed to cure, becomes hard like a stone.
a) Cement concrete	b) Cement slurry
c) Cement grouting	d) Cement mortar
(v) How many methods of artificial seasoning are the	here?
a) 2	b) 5
c) 6	d) 7
(vi) What are building materials?	
<ul> <li>a) Substance that which cannot be utilised in the construction of a structure</li> </ul>	<ul> <li>b) Substance that is utilised in the construction of a structure</li> </ul>
c) Substance that is utilised in the manufacturing of construction materials	d) None of the mentioned

(vii) The \_\_\_\_\_\_ provides support to the occupants, furniture, fixtures and equipments

a) Plinth c) Ramp (viii) There is initial of cement concrete which is mainly due to loss of water through forms, absorption by surfaces of forms, etc. a) Swelling of cement concrete which is mainly due to loss of water through forms, absorption by surfaces of forms, etc. a) Swelling of Dispersion	a) Plinth c) Ramp  (viii) There is initial of cement concrete which through forms, absorption by surfaces of forms, etc. a) Swelling are not seriously affected in the initial are not seriously affected i	Lifts Ich is mainly due to loss of water  Cracking Shrinkage ed until very high temperature of  Limestone Brick the volume of the sand.  Decreases Contract settle at the bottom of concrete uniform composition.  Coarse aggregate Cement	
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<ul> <li>4. Write down classification of bricks are per physical requirement.</li> <li>5. Explain the characteristics of good brick.</li> <li>OR</li> <li>State the characteristics of good oil paints.</li> <li>6. A building is to be constructed on a plot area of 1050 sq.m. The site abuts two streets, one of 20 m width and the other of 10 m, FAR is 2.0. If each storey contains 3 flats, determine the built-up area of the building and its height. Ground coverage is maximum 50%.</li> <li>OR</li> </ul>	3. Write briefly on necessity of proper ventilation in a roo	om. (3)	
5. Explain the characteristics of good brick.  OR  State the characteristics of good oil paints.  6. A building is to be constructed on a plot area of 1050 sq.m. The site abuts two streets, one of 20 m width and the other of 10 m, FAR is 2.0. If each storey contains 3 flats, determine the built-up area of the building and its height. Ground coverage is maximum 50%.  OR  OR			
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built-up area of the building and its height. Ground coverage is maximum 50%.  OR			
OR		•	
while the same transport to the same transpo		verage is maximum 50%.	
Write the proportions of M10, M15, M20 and M25 grades of concrete. (3)			
(5)	write the proportions of M10, M15, M20 and M25 gra	ades of concrete. (3)	
Group-C	Group-	·C	
(Long Answer Type Questions) 5 x 6=	•		
3 X 0=	,,	- Questions	31
7. Explain what is alkali aggregate asset	7. Evplain what is alkeli aggregate.	5 X 6=	3
7. Explain what is alkali aggregate reaction and what are the factors affecting it? (5)			31
Do 0 - ( 0	Page 2 c	re the factors affecting it? (5)	

8. Explain the principal causes of decay of timber.	(5)
	(5)
10. Define workability and water cement ratio of concrete.	(5)
OR	THE
Define what is curing of concrete and why it is required?	(5)
11. Explain the test for determination of bulking of sand.	(5)
OR	
Explain Aggreggate Impact Value Test.	(5)
12. Briefly explain the various defects in timber.	(5)
OR	
Write in brief about slaking of lime and carbonate hardening of lime.	(5)
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