Total no. of printed pages = 2

### CT-301/CM/3rd SEM/2022

## CONSTRUCTION MATERIALS

FULL MARKS – 70

#### PASS MARKS – 28

### TIME - THREE HOURS

# The figure in the margin indicate full marks for the questions

1	Answer the following questions.		1 x 25 = 25		
I.	Fat lime hardens due to the reaction	n with			
II.	Efflorescence occurs in brick is due	to the presence of			
III.	The maximum water absorption of a brick should not be more than%				
IV.	The innermost part of the tree is known as				
٧.	The material that facilitates spread of paint is known as				
VI.	The fresh properties of cement mortar are workability and				
VII.	A viscous liquid derived from the destructive distillation of coal is known as				
VIII.	Cracks that are caused on the exterior surface of the stem by shrinkage due to				
	weathering effect is known as				
IX.	The reaction between cement and water is known as				
Χ.	Give an example of a pozzolanic material.				
XI.	Polyvinyl chlorides is an example of thermosetting plastic. True,		True/False		
XII.	Quick lime is the purest form of lime	e.	True/False		
XIII.	Cement paint can be applied on any surface.		True/False		
XIV.	The rocks formed by cooling down of magma or molten material is called				
	(a) Metamorphic rock	(b) sedimentary rock			
	(c) Igneous rock	(d) Stratified rock			
XV.	A relatively high water absorption of a common burnt clay brick indicates				
	(a) High bond strength with mortar	(b) High shrinkage of bri	ick		
	(c) Low strength brick	(d) need for more morta	ar for bedding		
XVI.	The ingredient of brick earth which enables the brick to retain shape is				
	(a) Alumina	(b) Silica			
	(c) Iron oxide	(d)Magnesia			
XVII.	Bakelite is				
	(a) A semi-conductor	(b) Incombustible			
	(c) Low resistant conductor	(d) Highly inflammable			
XVIII.	Hydraulic lime is obtained by				
	(a) Burning of kankar	(b) Burning of lime stone	e		
	(a) Adding water to quick lime	(c) All of the above			
XIX.	The trunk of tree left after cutting all the branches is known as				
	(a) Plank	(b) Log	3		
	(c) Wane wood	(d) None of the above			
XX.	In paints, pigment is added for				
	(a) Shining surface	(b) Colour			
	(c) Smoothening the surface (d) Easy drying				
XXI.	The decay of timber caused by alternate wetting and drying is called				
	(a) Dry rot	(b) Wet rot			
	(c) Foxiness	(d) Doatiness			
XXII.	Sand is mixed with lime mortar to				

	(a) Improve strength (c) Reduce setting time	(b) Reduce cost (d) Prevent shrinkage			
XXIII.	II. In plywood manufacturing, the veneers are placed so that the grains of adjacent veneers				
	(a) Run at right angles	(b) Run at 30°			
	(c) Run at 45°	(d) Run at 60°			
XXIV.	the presence of				
	(a) Lime	(b) Silica			
	(c) Magnesia	(d) Iron			
XXV.					
	(a) Turpentine oil	(b) Petrol			
	(c) Resin	(d) Solvent			
	_	and the second sec			
22	From Question 2 to 6 Answer Any Four				
2	(a) What are the good engineering properties of a burnt clay brick?				
	(b) What are adhesives and how are the	y classified?	03		
3					
5	(a) What are the characteristics of a goo		05		
	(b) Explain how an old concrete surface	s painted?	05		
4	(a) Define glass and its types with uses.				
27 <b>8</b>	<ul><li>(b) What do you understand by seasonin</li></ul>	a of time	06		
	(b) what do you understand by seasonin	g of timber?	04		
5	(a) Explain how cement is manufactured	hy dry process	00		
	(b) What is heart shake?		08		
			02		
6	(a) What are various types of tar? List the	eir application?	07		
	(b) What are cast iron and wrought iron?		03		
	C C		03		
	Answer Question No. 7 Compulsorily				
7	Write note on any one of the following:		05		
	(a) Tiles		05		
	(b) Batten Board				