

NADAR SARASWATHI COLLEGE OF ENGINEERING AND TECHNOLOGY, THENI.

Course/Branch : B.E/Civil	Year / Semester :IV/VII	Format No.	NAC/TLP-07a.13
Subject Code : CE8703	Subject Name : STRUCTURAL DESIGN AND DRAWING	Rev. No.	02
Unit No : II	Unit Name : FLAT SLAB and BRIDGES	Date	30.09.2020

OBJECTIVE TYPE QUESTION BANK

	d) None of these	
8.	The creep coefficient i.e. the ratio of ultimate creep and elastic strain after a) 7 days is 2.2 b) 28 days is 1.6 c) 365 days is 1.1 d) All the above	L2
9.	In compression members, the lap length of a bar should not be less than a) 12 ϕ b) 16 ϕ c) 20 ϕ d) 24 ϕ	L2
10.	For nominal mix concrete M 15, the required weight of fine and coarse aggregates is 350 kg and the volume of water is a) 30 litres b) 32 litres c) 34 litres d) 45 litres	L2
11.	Moist sand may contain surface water by mass upto a) 7.5% b) 5.0% c) 2.5% d) 1.25%	L2
12.	The minimum horizontal distance between two parallel main reinforcing bars, is a) The diameter of the bar if their diameters are same b) The diameter of the longer bar if their diameters are unequal c) 5 mm more than nominal maximum size of the coarse aggregate d) Greatest value of the above	L2
13.	Pick up the correct statement from the following: a) The unit weight of plain concrete is assumed as 2400 N/m ³ b) The unit weight of reinforced concrete is assumed as 2500 N/m ³ c) The dead load includes self weight of the structural member plus weight of finishes and walls or partitions d) All the above	L2
14.	The thickness of the steel a) Exposed to weather and accessible for repainting, should be not less than 6 mm b) In main members not directly exposed to weather should not be less than 6 mm c) In secondary members not directly exposed to weather shall be not less than 4.5 mm d) All the above	L2
15.	For concreting of heavily reinforced sections without vibration, the workability of concrete should be a) Very low b) Low c) Medium	L2

NADAR SARASWATHI COLLEGE OF ENGINEERING AND TECHNOLOGY, THENI.

Course/Branch : B.E/Civil	Year / Semester :IV/VII	Format No.	NAC/TLP-07a.13
Subject Code : CE8703	Subject Name : STRUCTURAL DESIGN AND DRAWING	Rev. No.	02
Unit No : II	Unit Name : FLAT SLAB and BRIDGES	Date	30.09.2020

OBJECTIVE TYPE QUESTION BANK

	d) High		
16.	The effective depth of a shallow beam is the distance between a) Maximum compression and tension fibres b) Neutral axis and maximum compression fibre c) Neutral axis and maximum tension fibre d) None of these	L2	
17.	The minimum area of cross section of reinforcement in either direction of a slab should not be less than..... Of the slab cross section a) 0.75% b) 0.10% c) 0.15% d) 0.20%	L2	
18.	Pick up the correct statement for the web stiffeners. a) Vertical stiffeners are spaced at a distance not greater than 1.5 d and not less than 0.33 d b) D is the distance between flange angles or the clear distance between flanges c) For horizontal stiffeners, d is the clear distance between the horizontal stiffener and the tension flange d) All the above	L2	
19.	Removal of props under a) Slabs spanning up to 4.5 m is 7 days b) Slabs spanning more than 4.5 m is 14 days c) Beams spanning up to 6 m is 14 days d) All the above.	L2	
20.	Columns are designed for a minimum eccentricity equal to 1/30 (unsupported length of the column), subject to a minimum of a) 5 mm b) 10 mm c) 15 mm d) 20 mm	L2	
21.	The minimum diameter of longitudinal reinforcement of a column should not be less than a) 6 mm b) 8 mm c) 10 mm d) 12 mm	L2	
22.	The grade of reinforced concrete to be used in sea water or structures exposed to sea water should be a) M 10 b) M 15 c) M 20 d) M 30	L2	
23.	If the specified thickness of a footing is 100 cm, the depth of the form work may be tolerated from a) -2 mm to + 2 mm	L2	

NADAR SARASWATHI COLLEGE OF ENGINEERING AND TECHNOLOGY, THENI.

Course/Branch : B.E/Civil	Year / Semester :IV/VII	Format No.	NAC/TLP-07a.13
Subject Code : CE8703	Subject Name : STRUCTURAL DESIGN AND DRAWING	Rev. No.	02
Unit No : II	Unit Name : FLAT SLAB and BRIDGES	Date	30.09.2020

OBJECTIVE TYPE QUESTION BANK

	b) -3 mm to + 3 mm c) -4 mm to + 4 mm d) -5 mm to + 5 mm	
24.	.If the main reinforcement of the slab is parallel to a T-beam, the transverse reinforcement at mid span of the slab is provided at leastof main reinforcement a) 40% b) 50% c) 60% d) 70%	L2
25.	For achieving suitably a low permeability a) Strong and dense aggregates are used b) Low water – cement ratio is used c) Proper curing is done for hydration d) All the above	L2

