

University of Mumbai

Program: Civil Engineering
Curriculum Scheme: Rev2019
Examination: TE Semester V

Course Code: CEDLO5012 and Course Name: Building Services and Repairs
Time: 2 hour 30 minutes Max. Marks: 80

Q1.	Choose the correct option for following questions. All the Questions are compulsory and carry equal marks
1.	Which of the element is essential for combustion?
Option A:	Nitrogen
Option B:	Oxygen
Option C:	Nitrogen dioxide
Option D:	Carbon dioxide
2.	The process in which injecting mixture of cement, sand and water at a high pressure in the cracks, joints, voids is called as:
Option A:	Grouting
Option B:	Guniting
Option C:	Jacketing
Option D:	Shoring
3.	Shear cracks between the main wall and cross wall can be corrected using:
Option A:	Grouting
Option B:	Rebuilding
Option C:	Guniting
Option D:	Toothing
4.	The type of valve used for regulating flow in a pipeline, consisting of a movable disk-type element and a stationary ring seat in a generally spherical body is known as:
Option A:	Globe valve
Option B:	Ball valve
Option C:	Gate valve
Option D:	Diaphragm valve
5.	Which type of earthing is functioned as a path for fault current, lower touch voltage and protection against electric shock:
Option A:	Lighting Earth
Option B:	Telecom Earth
Option C:	Equipment Earth
Option D:	Computer Earth

6.	The mean of candle powers in all directions and in all planes from the source of light is defined as:
Option A:	Mean horizontal candle power (M.H.C.P)
Option B:	Mean spherical candle power (M.S.C.P)
Option C:	Mean hemi-spherical candle power (M.H.S.C.P)
Option D:	Mean vertical candle power (M.V.C.P)
7.	Which is the cause for deterioration of concrete under chemical reaction:
Option A:	Freezing and thawing
Option B:	Sulphate attack
Option C:	Settlement and movement
Option D:	Weathering
8.	Which of the following case is least important under Visual Inspection report?
Option A:	Field document
Option B:	Photographic record
Option C:	Exposure condition
Option D:	Time required (survey and execution)
9.	To control corrosion, concrete is used with:
Option A:	Low permeability
Option B:	Low thermal coefficient
Option C:	More cement content
Option D:	More coarse aggregates
10.	Which test of the following is consider under Non destructive Evaluation tests?
Option A:	Abrasion resistance test
Option B:	UPV test
Option C:	Core sampling test
Option D:	Compression Testing Machine

Q2	Solve any Four out of Six	5 marks each
A	Compare single phase and three phase electricity supply.	
B	Write a short note on rebound hammer test.	
C	What are causes of seepage in concrete structures?	
D	Write a short note on polymer concrete.	
E	Write list of various tests done to assess the condition of structure.	
F	Compare lifts and escalators.	

Q3	Solve any Four out of Six	5 marks each
A	Write a short note on measures of fire prevention in building	
B	Explain effect of climate on concrete structure	
C	What is meant by thermal protection coating?	

D	Explain septic tank with sketch.
E	What are the different factors affecting on visual task
F	Write a short note on types of wires.

Q4	Solve any Four out of Six	5 marks each
A	What are the Causes of Deterioration of Structures?	
B	Write a short note on core test.	
C	Explain Repairs through patch repairs	
D	Write a short note on Waterproofing.	
E	Explain Diagnosis & formation of cracks in structural members	
F	Compare AC Motors & DC Motors	