

Program: BE Civil Engineering

Curriculum Scheme: Revised 2016

Examination: Third Year Semester V

Course Code: CE DLO5063 and Course Name: Building Services and Repairs

Time: 1 hour

Max. Marks: 50

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Note to the students:- All the Questions are compulsory and carry equal marks .

Q1.	A lift machine room shall be designed
Option A:	To be accessible from common area.
Option B:	With access complying with the minimum standard prescribed under Code of practices for Means of Escape.
Option C:	With a minimum clear headroom of 2.3 m.
Option D:	To be protected by fire sprinklers.
Q2.	What will happen if DC shunt motor is connected across AC supply?
Option A:	Will run at normal speed
Option B:	Will not run
Option C:	Will Run at lower speed
Option D:	Burn due to heat produced in the field winding
Q3.	The armature of DC generator is laminated to
Option A:	Reduce Hysteresis loss
Option B:	Insulate the Core
Option C:	Reduce eddy current loss
Option D:	Provide air cooling passage
Q4.	On what basis are fire and water tube boilers are classified?
Option A:	Depending the combustion products formed
Option B:	Depending the state of fuel
Option C:	Depending on the steam formation rate
Option D:	Depending tubular heating surface
Q5.	The function of the following fitting in boiler is to regulate the flow of steam from one steam pipe to other:
Option A:	Feed check valve
Option B:	Safety valve
Option C:	Blow off cock
Option D:	Stop valve
Q6.	Which of the following is *not* a component of plumbing water supply system?
Option A:	Washbasin
Option B:	Water supply and distribution pipes
Option C:	Valves
Option D:	Storage tanks

Q7.	In a house drainage system, the pipe through which human excreta flows is called _____
Option A:	Vent pipe
Option B:	Soil pipe
Option C:	Rainwater pipe
Option D:	Waste pipe
Q8.	Which of the following is the advantage of cast iron pipes?
Option A:	They are subjected to tuberculation in certain water
Option B:	They are fragile
Option C:	They are heavier
Option D:	They are resistant to corrosion
Q9.	Which of the following is correct regarding Cement concrete pipes?
Option A:	They are corrosive
Option B:	The maintenance cost is high
Option C:	Unreinforced pipes are liable to tensile crack
Option D:	It is easy to repair them
Q10.	The ratio of the lumens actually received by a particular surface to the total lumens emitted by a luminous source is known as
Option A:	Depreciation factor
Option B:	Utilization factor
Option C:	Luminous intensity
Option D:	Specific output
Q11.	Lux is the unit of
Option A:	Luminous flux
Option B:	Luminous intensity
Option C:	Illumination
Option D:	Luminance
Q12.	Earthing is necessary to give protection against:
Option A:	Danger of electric shock
Option B:	Voltage fluctuation
Option C:	Overloading
Option D:	High temperature of the conductors
Q13.	Which gas is sometimes used in filament lamps?
Option A:	Nitrogen
Option B:	Carbon dioxide
Option C:	Argon
Option D:	Krypton
Q14.	The illumination is directly proportional to the cosine of the angle made by the normal to the illuminated surface with the direction of the incident flux. Above statement is associated with-
Option A:	Planck's law

Option B:	Macbeth's law of illumination
Option C:	Bunsen's law of illumination
Option D:	Lambert's cosine law
Q15.	Which of the following will needs the highest level of illumination?
Option A:	Proofreading
Option B:	Bedroom
Option C:	Hospital wards
Option D:	Railway platforms
Q16.	An identifiable, unwanted condition that was not part of the original intent of design is known as _____
Option A:	Corrosion
Option B:	Mistake
Option C:	Defect
Option D:	Cracking
Q17.	_____ is breaking down of the concrete into small fragments or particles
Option A:	Scaling
Option B:	Abrasion
Option C:	Delamination
Option D:	Disintegration
Q18.	Which phenomenon takes place due to concrete repeatedly struck by particles from a harder body?
Option A:	Erosion
Option B:	Abrasion
Option C:	Disintegration
Option D:	Delamination
Q19.	Efflorescence in cement is caused due to an excess of-
Option A:	Alumina
Option B:	Iron oxide
Option C:	Silica
Option D:	Alkalis
Q20.	The property of fresh concrete, in which the water in the mix tends to rise to the surface while placing and compacting, is called
Option A:	Segregation
Option B:	Bleeding
Option C:	Bulking
Option D:	Creep
Q21.	Which of the following is Semi - destructive on concrete?
Option A:	Rebound hammer test
Option B:	Ultrasonic pulse velocity test
Option C:	Cover meter test

Option D:	Pull-out test
Q22.	Which of the following factor is responsible for corrosion?
Option A:	Chloride attack
Option B:	Water Cement Ratio
Option C:	Bond
Option D:	Strength
Q23.	Which Indian Standard gives specifications about UPV testing of concrete?
Option A:	IS 13311 Part 1
Option B:	IS 456-2000
Option C:	IS 800
Option D:	IS 875 Part 2
Q24.	Which of the below is *not* an essential parameter while selecting any Repair material?
Option A:	Low Shrinkage
Option B:	Workability
Option C:	Cost
Option D:	Creep
Q25.	Destroying the layer of protecting film on steel is known as?
Option A:	De-Passivation
Option B:	Honeycombing
Option C:	Delamination
Option D:	Cracking