

Program: BE Civil Engineering

Curriculum Scheme: Revised 2016

Examination: Third Year Semester V

Course Code: CEDLO5063 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.	Which of the following conveyor is used in Concrete mixer ?
Option A:	Overhead conveyor
Option B:	Belt conveyor
Option C:	Screw conveyor
Option D:	Bucket conveyor
Q2.	Which of these is NOT likely to be found on a standard, non roped hydraulic elevator ?
Option A:	Pit valve
Option B:	Door locks
Option C:	Over-speed governor
Option D:	Hydraulic ram
Q3.	How many types of machine mixers are available?
Option A:	2
Option B:	5
Option C:	6
Option D:	3
Q4.	Which of the following lift type suitable for car wash ?
Option A:	Traction lift
Option B:	Hydraulic lift
Option C:	escalator
Option D:	Vacuum Elevator.
Q5.	Which one is not systems of pipe networks ?
Option A:	Dead end system
Option B:	Radial System
Option C:	Grid Iron System
Option D:	Rectangular System
Q6.	The sewer should be laid
Option A:	Below the building
Option B:	Side of the building

Option C:	Across the building
Option D:	Within the building
Q7.	Which of the following material is most suitable for main pipe in water distribution system ?
Option A:	Cast iron
Option B:	Galvanized iron
Option C:	HDPE (High-density polyethylene)
Option D:	PVC
Q8.	Which is the following we should NOT do during a fire emergency ?
Option A:	Evacuate a building through designated exit routs
Option B:	Keep fire door shuts to prevent the fire from spreading
Option C:	Crawl low under the smoke while breathing only through your nose
Option D:	RE-enter the building without the permission of authorities
Q9.	Which of the following pipe prevents entry of bad smell and gases in the bathroom?
Option A:	Anti siphonage pipe
Option B:	Soil pipe
Option C:	Waste pipe
Option D:	Main pipe
Q10.	SI unit of electric current is
Option A:	Ampere (I)
Option B:	Watt (W)
Option C:	Volt (V)
Option D:	Ohm (Ω)
Q11.	Which wire carries electricity from electric pole to weather head ?
Option A:	Panel feeder wire
Option B:	Non metallic sheathed wire
Option C:	Main feeder wire
Option D:	Triplex wire
Q12.	Glare of a light is caused by
Option A:	Dim light
Option B:	No light
Option C:	Bright light
Option D:	Contrast
Q13.	Artificial light is created by combination of
Option A:	Red Green and white lights
Option B:	Red Blue and Yellow lights
Option C:	Red Blue and Green lights
Option D:	Red Blue and White lights

Q14.	Blistering and peeling is one of the defect seen in
Option A:	Concrete
Option B:	Painting
Option C:	Plumbing
Option D:	Plastering
Q15.	Deflection was noticed in the newly constructed properly designed RCC beam. The defect maybe due to
Option A:	Very long span
Option B:	Diagonal cracks near edge of support
Option C:	Insufficient concrete cover
Option D:	Early removal of form-work
Q16.	Which one of the following is construction error made on site ?
Option A:	Wrong calculation of reinforcement
Option B:	Inadequate provision for deflection
Option C:	Wrong placement of reinforcement
Option D:	Wrong assessment of load
Q17.	Rebound hammer test is used to
Option A:	Assess compressive strength of concrete
Option B:	Corrosion testing
Option C:	Assess tensile strength
Option D:	Assess chemical attack
Q18.	Which of the following test is non destructive test ?
Option A:	Rebound hammer test
Option B:	Carbonation test
Option C:	Core test
Option D:	Pull out
Q19.	High UPV values, high rebound number indicates
Option A:	Not corrosion prone
Option B:	Corrosion prone
Option C:	Not corrosion prone however to be confirmed by chemical test
Option D:	Corrosion prone , requires chemical and electrochemical test
Q20.	Rebound number zero indicates
Option A:	Less compressive strength
Option B:	Delaminated surface
Option C:	Crack in concrete
Option D:	breaking of concrete
Q21.	Shear cracks in the beam appear near
Option A:	Center

Option B:	Support
Option C:	Quarter Span
Option D:	Shear crack does not appear on the beam
Q22.	Stitching technique is used to restore
Option A:	Shear strength
Option B:	Compressive strength
Option C:	Tensile strength
Option D:	Shear and compressive strengths
Q23.	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
Q24.	The change in the volume of water inside the pores of concrete causes stresses on particles adjacent to these pores is known as:
Option A:	Freeze-thaw damage
Option B:	Alkali silica reaction
Option C:	Chloride ion diffusion
Option D:	Sulfate attack
Q25.	Which is a hardened Portland cement concrete that has been impregnated with a monomer (low viscosity liquid organic material) and subsequently polymerized in situ?
Option A:	Polymer concrete (PC)
Option B:	Polymer portland cement concrete (PPPC)
Option C:	Polymer impregnated concrete (PIC)
Option D:	Polymer mortar

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Question	Correct Option (Enter either 'A' or 'B' or 'C' or 'D')
Q1.	C
Q2.	C
Q3.	D
Q4	B
Q5	D
Q6	B
Q7	A
Q8.	D
Q9.	A
Q10.	A
Q11.	D
Q12.	C
Q13.	C
Q14.	B
Q15.	D
Q16.	C

Q17.	A
Q18.	A
Q19.	A
Q20.	B
Q21.	B
Q22.	C
Q23.	A
Q24.	A
Q25.	C