University of Mumbai

Examination 2020 under cluster APSIT

Program: Civil Engineering

Curriculum Scheme: Rev2016

Examination: Second Year Semester VI

Course Code: CE-DLO6061 and Course Name: Advanced Construction Equipment

Time: 1 hour Max. Marks: 50

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

Q1.	_____ type of excavator is used for digging at or below the operating level.
Option A:	Skimmer
Option B:	Dragline
Option C:	Power shovel
Option D:	Dredger
Q2.	_____ rollers are also known as tamping rollers
Option A:	Sheep's foot
Option B:	Rubber tyred
Option C:	Smooth wheeled
Option D:	Pneumatic
Q3.	The material above ……. Passes to the primary crusher
Option A:	60 mm
Option B:	50 mm
Option C:	40 mm
Option D:	30 mm
Q4.	Ratio of Distance between the fixed and moving faces at the top divided by the distance at the bottom is known as……..
Option A:	Reduction Ratio
Option B:	Distance Ratio
Option C:	Crushing Ratio
Option D:	Aggregate Ratio
Q5.	In Jaw crusher, fixed Jaws are made of……..
Option A:	Mild steel
Option B:	Manganese Chrome cast steel
Option C:	Chromium
Option D:	High tensile steel
Q6.	For an ordinary hammer,……
Option A:	Energy = Weight of Ram X Fall of Hammer
Option B:	Energy= Weight of Ram/ Fall of Hammer
Option C:	Energy = Fall of Hammer/ Weight of Ram
Option D:	Energy = Fall of Hammer + Weight of ram
Q7.	To attain the required shape of the tunnel section, we use :
Option A:	Easers
Option B:	Trimmers
Option C:	Cut holes

Option D:	Chisels.
Q8.	For highways, tunnelling is preferred to if the open cut exceeds :
Option A:	10 metres depth
Option B:	15 metres depth
Option C:	20 metres depth
Option D:	25 metres depth
Q9.	A good blast with a good yield is obtained if the cut hole is
Option A:	Normal to face
Option B:	Inclined at 45° to the face
Option C:	Inclined at 30° to the face
Option D:	Inclined at 35° to the face
Q10.	For full face method, the excavation to be done is generally divided into
Option A:	Two sections
Option B:	Three sections
Option C:	Four sections
Option D:	Five sections
Q11.	_____ protects the Rock Drill from shock waves
Option A:	Stop ring
Option B:	Driver
Option C:	Accumulator
Option D:	Damping Piston
Q12.	The part of TBM which faces the ground to be tunnelled
Option A:	Grippers
Option B:	Conveyors
Option C:	Concrete sprayer
Option D:	Cutter Heads
Q13.	The inside surface of formwork should be _____ so as to turn out a good concrete surface.
Option A:	Smooth
Option B:	Undulated
Option C:	Rough
Option D:	Geometrical
Q14.	Which of the following is the practice of assembling components of a structure in a factory or other manufacturing site, and transporting complete assemblies or sub-assemblies to the construction site where the structure is to be located.
Option A:	Prefabrication
Option B:	Fabrication
Option C:	Moulding
Option D:	Shuttering
Q15.	Carrying capacity of Doka floor props is rated from:
Option A:	10 KN to 15 KN
Option B:	20 kN to 30 kN
Option C:	40 KN to 50 KN
Option D:	60 KN to 70 KN
Q16.	It is found that moisture content of about _____ is appropriate for the timber formwork.

Option A:	20%
Option B:	30%
Option C:	40%
Option D:	50%
Q17.	Precast beam decks are generally used for short span bridges ranging between----
Option A:	2.5m to 20 m
Option B:	3.5 m to 30 m
Option C:	4 m to 40 m
Option D:	5 m to 50 m
Q18.	GPR Method is
Option A:	Geographical Method
Option B:	Geophysical and Non destructive Method
Option C:	Geographical and Destructive Method
Option D:	Geophysical and Destructive Method
Q19.	For long bridges and viaducts with an individual span up to 60m, which method is feasible?
Option A:	Span by span method
Option B:	Incremental launching method
Option C:	Balance cantilever Method
Option D:	Cable stayed method
Q20.	In Bridge construction Method, ILM stand for
Option A:	Instrumental limiting method
Option B:	Incremental launching method
Option C:	Instrumental location method
Option D:	Incremental limiting method
Q21.	The amount of electrical energy that can be generated by a hydroelectric power plant depends upon _____
Option A:	Head of water
Option B:	Quantity of water
Option C:	Specific weight of water
Option D:	Efficiency of Alternator
Q22.	……. Method is most suitable for short length cable routes such as in workshops, railway bridge crossing.
Option A:	Direct laying
Option B:	Solid system
Option C:	Draw-in-system
Option D:	Top to bottom
Q23.	Select the following in proper order for track renewal process? 1) Ballast handling 2) New rail insertion 3) Old sleeper removal 4) New sleeper laying
Option A:	1-3-4-2
Option B:	3-4-2-1
Option C:	3-2-4-1
Option D:	1-2-4-3
Q24.	Which of the following Tunnel boring machine provides Lateral support only in case of Metro Construction?
Option A:	Compressed air TBM
Option B:	Earth pressure balance machine

Option C:	Double Shield TBM
Option D:	Slurry shield TBM
Q25.	The Line 1 of Mumbai Metro is constructed _____
Option A:	Underground
Option B:	Built-at grade
Option C:	Elevated
Option D:	Combination of Underground & Elevated