

# University of Mumbai

## Examination 2020

Program: Civil Engineering

Curriculum Scheme: Rev2012

Examination: Third Semester III

Course Code: CE-C-304 and Course Name: Engineering Geology

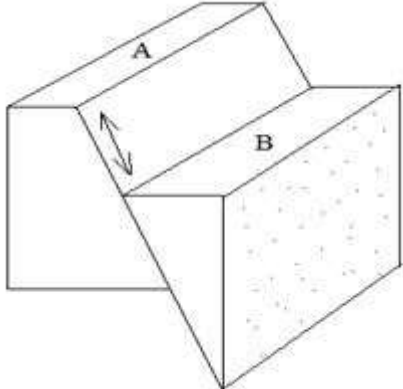
Time: 1-hour

Max. Marks: 50

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

Q1.	Identify the mineral. i) Chemical composition: SiO <sub>2</sub> II) Specific gravity- 2.58 to 2.91 iii) Hardness- 6.5 to 7 iv) Uses- Jewelry, ornamental stone.
Option A:	Bloodstone
Option B:	Chert
Option C:	Jasper
Option D:	Talc
Q2.	Identify the mineral. i) Color- Colorless, White, grey II) Hardness- 6.5 to 7 iii) Streak- White iv) Luster- Waxy
Option A:	Agate
Option B:	Granite
Option C:	Augite
Option D:	Chalcedony
Q3.	Identify a rock. i) Color- Brown, yellow, red in color, Streak- white , Fracture- Conchoidal, Hardness- 6 to 7 Used for Construction work, highly porous
Option A:	Sandstone
Option B:	Shale
Option C:	Basalt
Option D:	Granite
Q4.	Which among the following is not a type of False bedding?
Option A:	Columnar
Option B:	Tabular
Option C:	Lenticular
Option D:	Wedge shaped
Q5.	The type of concordant body whose thickness is much smaller than its length and width is _____
Option A:	dyke
Option B:	sill
Option C:	phacolith
Option D:	batholith
Q6.	Which rocks show severe degree of metamorphism?
Option A:	Situated near the plate boundaries
Option B:	Situated inside the boundaries
Option C:	Situated at the center of the plates

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Option D:	Irrespective of the place, the degree is same everywhere
Q7.	Identify the type of slip from the figure below.
	
Option A:	Strike slip
Option B:	Dip Slip
Option C:	Isoclinal Fold
Option D:	Oblique Slip
Q8.	The study of rocks in the laboratory as hand specimens with a view to analyse and discuss their texture, mineral composition, chemical composition is called as
Option A:	petrography
Option B:	hydrogeology
Option C:	pedology
Option D:	Physical geology
Q9.	The criteria to classify a dam as a large dam is _____
Option A:	Length of the crest of the dam lesser than 500 m
Option B:	Capacity of the reservoir less than 1 million cubic meters
Option C:	Maximum flood discharge less than 2000 cubic meters/second
Option D:	Capacity of the reservoir not less than 1 million cubic meters
Q10.	At convergent plate boundaries where oceanic and continental crust meet _____
Option A:	No associated volcanism occurs
Option B:	oceanic crust is subducted
Option C:	oceanic crust is created
Option D:	continental crust is subducted
Q11.	Which type of rocks requires double lining, i.e., temporary and permanent lining?
Option A:	Hard rock
Option B:	Crystalline rocks
Option C:	Soft rock
Option D:	Non-crystalline rocks
Q12.	Which among the following is not a part of fold

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Option A:	Limbs
Option B:	Hinge
Option C:	Axis of fold
Option D:	Height of fold
Q13.	Folded rocks are often best storehouses of which of water?
Option A:	Juvenile water
Option B:	Magmatic water
Option C:	Artesian water
Option D:	Connate water
Q14.	Which of the following about Spheroidal weathering is true?
Option A:	Formation of joints is not involved
Option B:	Change in the elevation of the ground
Option C:	Omission of some strata
Option D:	Both mechanical and chemical weathering are believed to happen
Q15.	What is the specialty of the Artesian water?
Option A:	Has a characteristic color
Option B:	Has a characteristic odour
Option C:	Requires no pumping
Option D:	Requires special type of pumping
Q16.	Which of the following are not related to wind erosion?
Option A:	loess
Option B:	ventifact
Option C:	deflation
Option D:	blowout
Q17.	The depth at which the core layer starts and ends respectively
Option A:	2000 and 5371 km
Option B:	2900 and 6371 km
Option C:	2500 and 4771 km
Option D:	2000 and 5000 km
Q18.	What do you mean by word SIAL
Option A:	Silicon and Maganese
Option B:	Silica and Alumina
Option C:	Strontium and Manganese
Option D:	Strontium and Magnesium
Q19.	The best groundwater reservoirs have _____?
Option A:	low permeability and low porosity
Option B:	low permeability and high porosity
Option C:	high permeability and high porosity
Option D:	high permeability and low porosity
Q20.	In course of glacier a highly resistant rock stands as an obstruction retarding the

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	erosive action of ice on the soft bed rocks sheltered behind the obstruction, this peculiar feature is called
Option A:	Whaleback forms
Option B:	Glacial valley
Option C:	Are Te, Horns & Cols
Option D:	Crag & Tails
Q21.	An alluvial deposit of roughly triangular shape that are deposited by major rivers at their mouths is called
Option A:	Channel deposits
Option B:	Flood plain
Option C:	Deltas
Option D:	Scree
Q22.	A local water table positioned above the regional and isolated water table is said to be:
Option A:	stranded
Option B:	artesian surface
Option C:	perched
Option D:	depressed
Q23.	Which is the ideal condition for a reservoir?
Option A:	When general water is much above the top reservoir level
Option B:	When general water table is much below the minimum water level
Option C:	When general water table and top water level of the proposed reservoir are almost same
Option D:	When general water table is slightly above the top reservoir level
Q24.	The type of fault which appears in such a way that the central wedge moved downward with respect to the sides blocks is
Option A:	Graben
Option B:	Horst
Option C:	Nappe
Option D:	Thrust
Q25.	Identify the type of fold in the image below
Option A:	Conjugate fold
Option B:	Chevron fold
Option C:	Cusped fold

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Option D:	Cylindrical fold
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