

Brown Knews NAMES



BRAINWARE UNIVERSITY

Term End Examination 2023
Programme – B.Tech.(CE)]-2021
Course Name – Engineering Geology
Course Code - PCC-CE402
(Semester IV)

Brand Kowal Tool 25

Full	Marks	:	60

Time: 2:30 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Multiple Choice Type Question)

1 x 15=15

1.	Choose the correct alternative from the following:				
(i)	Select the correct answer for the blank: Large inverted mushroom—shaped intrusions that sag down in the middle due to dense rocks are called as				
	a) laccoliths	b) lopoliths			
	c) balnoliths	d) dikes			
(ii)	choose which will be the parental rock for metamorphic rock.				
	a) sedimentary	b) igneous			
	c) metamorphic	d) all of these			
(iii)	Identify the branch of geology which deals with occurrence, origin and history of rocks is known as				
	a) hydrogeology	b) pedology			
	c) petrology	d) geomorphology			
(iv)	Identify the branch of geology which deals with study of chronology of the earth\'s pasevents is called as				
	a) historical geology	b) structural geology			
	c) physical geology	d) none of the above			
(v)					
	a) Igneous rocks	b) Sedimentary rocks			
	c) Metamorphic rocks	d) None of the above			

(vi) Identify the large magnitude or sudden events that modify the pre-existing landscapes

(vii) Identify which percentage of sun's heat is absorbed by land, sea or the atmosphere.

a) 40

is known as

a) catastrophismc) physimorphism

b) 20

b) metamorphism

d) none of these

c) 10

d) 60

(viii) Select the correct answer for the specimens with a view to analyse chemical composition is called as	plank: The study of rocks in the laboratory as hand and discuss their texture, mineral composition,	
a) petrography	b) hydrogeology	
a) madalami	d) any of the above	
(ix) Select the correct answer: the hear from which of the following event	at caused by melting in the earth history was supplied	
a) volcanic activity and radioactivi	ty b) a large impact event and radioactivi	ty
c) large impact event and solar he		
(x) Choose which is the common nes		
a) olivine	b) pyroxene	
a) augusts	d) feldspar	
(xi) Select the correct answer for the crystals is known as	blank :Formation or development of long needle like	
a) fibrous	b) radiating	
c) columnar	d) acicular	
(xii) Select the correct answer for the	blank : For C band Synthetic Aperture Radar (SAR) Hz, the coherence length loch is	
a) 130 km	b) 230 km	
c) 250 km	d) 500 km	
(xiii) Choose which type of rock is com	posed of entirely of crystals.	
a) holocrystalline	b) holohyaline	
c) mesocrystalline	d) none of these	
(xiv) Choose which type of rock is com	pletely consist of glass.	
a) holocrystalline	b) holohyaline	
c) mesocrystalline	d) none of these	
(xv) Select the correct answer for the other by wind and water, glacier	blank: Small pieces of rock moved from one part to is called as	
a) erosion	b) rock flow	
c) weathering	d) cementation	
	Group-B	
(S	hort Answer Type Questions)	3 x 5=15
2. Describe geophysical investigations		(3)
3 Explain the "magnitude" of an eart	nquake.	(3)
4 Define geology and explain differen	t branches of geology.	(3)
5. Explain physical properties of Pyrox	ene group.	(3)
6. Distinguish between weathering an	d erosion .	(3)
	OR	(2)
Justify physical and chemical classif	ication of stones.	(3)
	Group-C	
(1	Long Answer Type Questions)	5 x 6=30
7 Explain the geological work done	by glaciers and features of erosion and deposition.	(5)
		(5) (5)
O Define terms hedding and outcrop with neat diagrams.		
10. Explain the classification of sedim	entary rocks giving suitable example.	(5)
11 Write in detail about the geologic	al classification of stones.	(5)
12. Justify the unfavorable geological	structures while choosing the alignment of tunnel. OR	(5)
Justify folds based on position of	axial plane.	(5)