Code No.	J – 2276
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Enti	ranc	e Examination	on for A		sion to		G. Coui	rses in	the Te	aching
				•	CSS	-				
				G	EOLOG	Ϋ́				
				Gener	al Instru	ctions				
		Question Pape criptive type (40		ng two	Parts —	Part 'A	' Objecti	ve type	(60%) 8	Part 'B'
	•	ctive type ques			•			e (✔) 'tio	ck marke	ed' in the
3.	8 qu	estions are to b	e answe	red out	of 12 que	estions c	arrying 5	5 marks	each in F	Part 'B'.
		ative marking art 'A'.	: 0.2	5 mark	s will b	e dedi	ucted fo	or each	wrong	answer
Time	: 2 F	lours						ľ	Max. Maı	rks : 100
To b	e fille	ed in by the Car	ndidate							
Regi		in Figures								
Num	iber	in words								
				F	PART – /	4				
					jective Ty					
Choo	se an	propriate answ	er from t	he optio	ns in the	auestio	ns. <b>One</b>	mark <b>ea</b>	ıch.	
	- C	p. op a a a				40.000				) marks)
1.	Isost	asy term was i	first use	d by						
		Airy		•	b)	Wagı	ner			
(	c)	Dutton			d)	Pratt				

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- 2. Which of the following mineral has highest specific gravity?
  - a) Wolframite

b) Pyrite

c) Magnetite

- d) Haemetite
- 3. Which of the following is an amorphous mineral?
  - a) Opal

b) Cat's Eye

c) Topaz

d) Lapiz Lazuli

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4.	Which of the following is a living fossil?							
	a)	Arca	b)	Cardita				
	c)	Lingula	d)	Trigonia				
5.	How	much time does the Sun's light tal	kes to	react the Earth?				
	a)	8 minutes and 20 seconds	b)	8 hours and 20 minutes				
	c)	8 seconds	d)	8 hours and 8 minutes				
6.	Den	sity of water is						
	a)	1 g/m <sup>3</sup>	b)	10 kg/m <sup>3</sup>				
	c)	1 g/cm <sup>3</sup>	d)	100 kg/m <sup>3</sup>				
7.	Bioti	te belongs to						
	a)	Dioctahedral group	b)	Trioctahedral group				
	c)	Octahedral group	d)	Triclinic				
	,	J I	,					
8.	Sou	rce rocks of petroleum are						
	a)	Shales and limestones	b)	Sandstones				
	c)	Conglomerates	d)	Fractured Shales				
9.	Whi	ch element is most abundant in ear	rth cr	ust?				
	a)	0	b)	Si				
	c)	Al	d)	Ca				
10.	The	most abundant element present in	the o	outer core is				
	a)	either S or O	b)	either S or Al				
	c)	K	d)	(D)Na				
11.	The	age of oldest rock in present day of	cean	basin				
	a)	Devonian	b)	Jurassic				
	c)	Eocene	d)	Permian				

12.	Ank	aleshwar is famous for		
	a)	Gold mining	b)	Petrochemical industry
	c)	Manufacturing industry	d)	Wheat production
13.	Pyro	exenes belong to		
	a)	Single chain structure (Inosilicate)	)	
	b)	Double chain structure (Inosilicate	<del>)</del> )	
	c)	Nesosilicate		
	d)	Sorosilicate		
14.		a belongs to		
	a)	Nesosilicate	b)	Sorosilicate
	c)	Phyllosilicate	d)	Inosilicate
15.	The	Monazite sands of Kerala are rich	in	
10.	a)	coal	b)	uranium
	c)	thorium	d)	platinum
	C)	monam	u)	piatinum
16.	Max	imum depth of continental slope is	in m	etere is
	a)	70–200	b)	200–1000
	c)	200–500	d)	1000–4000
17.		nt bar deposit is associated with		
	a)	Braided river	b)	Estuary
	c)	Meandering river	d)	Beach
18.	Exa	mple of antecedent river is		
	a)	Yamuna	b)	Brahmaputra
	c)	Ganga	d)	Godavari

19.		process by which soft and loose is called	sedim	nents are converted into hard a	and firm
	a)	Lithification	b)	Sedimentation	
	c)	Diagenesis	d)	Precipitation	
20.	Half	life period of C14 is			
	a)	1130 yr.	b)	12 yr.	
	c)	40 yr.	d)	5730 yr.	
21.	The	youngest folded mountain in India	a is		
	a)	Vindhyas	b)	Nilgiris	
	c)	Aravallis	d)	Siwaliks	
22.	Whi	ch of these is young folded mount	ain?		
	a)	The Himalayas	b)	The Nilgiris	
	c)	The Vindhyas	d)	The Western Ghats	
23.	Whi	ch of the following time unit is in c	hrono	logical order?	
	a)	Triassic-Jurassic-Cretaceous			
	b)	Cretaceous-Jurassic-Triassic			
	c)	Triassic-Cretaceous-Jurassic			
	d)	Jurassic-Triassic-Cretaceous			
24.	The	number of hydrous minerals in the	e Moh	's scale of hardness is	
	a)	3	b)	4	
	c)	2	d)	5	
25.	Inst	rument which detect and record ea	arthqu	ake waves is known as	
	a)	Seismograph	b)	Seismogram	
	c)	Both	d)	Gravimeter	
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26.	Atm	nospheric pressure exerted on eartl	n is c	lue to
	a)	rotation of earth	b)	revolution of earth
	c)	gravitational pull	d)	uneven heating of earth
27.	Wh	ich one of them is a type of shear z	one	deposits?
	a)	Sheeted vein	b)	Gossans
	c)	Saddle reef	d)	Composite vein
28.	The	e Deccan traps belong to the		
	a)	Plateau basalt	b)	Normal cone basalt
	c)	Flood basalt	d)	Pillow basalt
29.		is a short time process	s tha	t happens when a shock such as an
	Ear	thquake.		
	a)	Liquefaction	b)	Fluidisation
	c)	Convolute bedding	d)	Dish structure
30.	In E	Brachiopods, two valves joined at a	mar	gin on the posterior side is known as
	a)	Hinge area	b)	Cardinal area
	c)	Hinge line	d)	Cardinal line
31.	Cho	pose the descending order of nome	nclat	ture among the following
	a)	Kingdom – Division – Class – Ord	der –	Genus – Species
	b)	Division – Kingdom – Order – Cla	ıss –	Species – Genus
	c)	Kingdom – Phylum – Class – Ord	ler –	Genus – Species
	d)	Kingdom – Class – Order – Divisi	on –	Genus – Species
32.	The	half life period of the 238U is		
	a)	4.5 × 10 <sup>9</sup> Years	b)	$7.1 \times 10^8$ Years
	c)	1.4 × 10 <sup>10</sup> Years	d)	4.99 × 10 <sup>10</sup> Years

33. The following reaction is most widely used for geologic age determina							
	a)	<sup>40</sup> K to <sup>40</sup> Ar	b)	Pb <sup>207</sup> / Pb <sup>204</sup>			
	c)	<sup>238</sup> U and <sup>235</sup> U	d)	<sup>206</sup> Pb and <sup>207</sup> Pb			
34.	Plac	cer deposits at the foot of a slope a	re kn	own as			
	a)	Alluvial placers	b)	Beach placers			
	c)	Eluvial placers	d)	Eolian placers			
35.	The	"anticlinal" traps are classified as					
	a)	Concave traps	b)	Convex traps			
	c)	Non-concave traps	d)	Non-convex traps			
36.	The	term Archaean was introduced by					
	a)	Holland	b)	Fermor			
	c)	Dana	d)	Lyell			
37.	Nec	tectonics referred to tectonic activity	ty aft	er ——— period.			
	a)	Holocene	b)	Jurassic			
	c)	Eocene	d)	Miocene			
38.	TIN	can be created using					
	a)	Spot heights	b)	Aerial photos			
	c)	Satellite image	d)	River network			
39.	Fau	It stick-slip occurs					
	a)	At 5 km depth	b)	Between 5 km and 10 km			
	c)	Above 50 km	d)	At deeper depth			

40. The pH of a solution is the											
	a)	Negative Log of the H ions concentration									
	b)	Negative Log of the reciprocal of	its Hy	drogen ion concentration							
	d)	Hydrogen ion concentration of the	solu	tion							
41.	Wha	at type of plate boundary is represe	ented	by a mid-ocean spreading ridge?							
	a)	Divergent	b)	Convergent							
	c)	Transform	d)	Strike-slip							
42.	Fau	lts where displacement is both vert	ical a	and horizontal are called as							
	a)	Radial faults	b)	Complex faults							
	c)	Slippery faults	d)	Oblique faults							
43.	Moł	norovicic discontinuity is marked by	,								
	a)	Abrupt increase in the seismic wa	ve ve	elocities							
	b)	Abrupt decrease in the seismic wa	ave v	elocities							
	c)	Gradual increase in the seismic w	ave v	velocities							
	d)	Gradual decrease in the seismic v	wave	velocities							
44.	The	point within the Earth where seism	nic wa	aves originate is known as							
	a)	Epicentre	b)	Fault scarp							
	c)	Origin	d)	Focus							
45.	Whi	ich of the following is not a fold type	∋?								
	a)	Syncline	b)	Anticline							
	c)	Dome	d)	Thrust fold							
46.	Tota	al number of crustal plates present	in the	e earth surface are							
	a)	25	b)	10							
	c)	20	d)	15							

47.		ich one of the following places in athering?	s mo	ore likely to be affected by chemica
	a)	Thar desert	b)	Siwalik
	c)	Tibetan Plateau	d)	Leh
48.	Wh	ich of the following is a renewable	resou	ırce?
	a)	Iron ore	b)	Coal
	c)	Crude oil	d)	Bio fuel
49.	The	study of interaction in the environ	ment	is called
	a)	Eschatology	b)	Entomology
	c)	Epidemiology	d)	Ecology
50.	The	two most common gases present	in the	e Earth's atmosphere are
	a)	Neon and oxygen	b)	Oxygen and nitrogen
	c)	Nitrogen and helium	d)	Argon and nitrogen
51.	Tro	pical storm which occurs in the sou	ıtherr	n hemisphere is called
	a)	Typhoon	b)	Disturbance
	c)	Cyclone	d)	Depression
52.	The	optical property of a water body d	epen	ds on
	a)	Absorption by the dissolved mate	rial	
	b)	Absorption by the suspended par	ticula	ate matter
	c)	Scattering by the suspended part	icula	te matter
	d)	All the above		
53.	The	changes in the reflectivity/emissiv	ity wi	th time is called
	a)	Spectral variation	b)	Spatial variation
	c)	Temporal variation	d)	None of these

54.	. Seismic sea waves which approach the coasts at greater force are known as								
	a) Tsunami b) Current								
	c)	Cyclone	d)	Tides					
55.	Ster	eo viewing is possible in this satelli	ites						
	a)	Indian remote sensing satellite	b)	Landsat					
	c)	SPOT	d)	INSAT					
56.	Dard	cy's law is valid for							
	a)	Turbulent flow in Coarse grained s	sedin	nents					
	b)	Laminar flow in Coarse grained se	edime	ents					
	c)	Laminar flow in Fine grained sedir	nents	S					
	d)	Turbulent flow in Fine grained sed	limen	ats					
57.	In ca	apillary zone							
	a)	The water defy gravity	b)	Evaporation is high					
	c)	Water is saturated	d)	Water flow is laminar					
58.	Mas	s extinction was not happened dur	ing th	nis period					
	a)	Silurian	b)	Devonian					
	c)	Triassic	d)	Creataceous					
59.	This	is a neutral refractory							
	a)	Magnesite	b)	Silica					
	c)	Chromite	d)	Periclase					
60.	The	large volcano at Hawaii is classifie	d as						
	a)	Cinder Cone	b)	Composite Cone					
	c)	Shield Volcano	d)	Fissure Eruption					

## ANSWER SHEET — PART – A

1	Α	В	С	D	Е	21	Α	В	С	D	Е	41	Α	В	С	D	Е
2	Α	В	С	D	Е	22	Α	В	С	D	Е	42	Α	В	С	D	Е
3	Α	В	С	D	Е	23	Α	В	С	D	Е	43	Α	В	С	D	Е
4	Α	В	С	D	Е	24	Α	В	С	D	Е	44	Α	В	С	D	Е
5	Α	В	С	D	Е	25	Α	В	С	D	Е	45	Α	В	С	D	Е
6	Α	В	С	D	Е	26	Α	В	С	D	Е	46	Α	В	С	D	Е
7	Α	В	С	D	Е	27	Α	В	С	D	Е	47	Α	В	С	D	Е
8	Α	В	С	D	Е	28	Α	В	С	D	Е	48	Α	В	С	D	Е
9	Α	В	С	D	Е	29	Α	В	С	D	Е	49	Α	В	С	D	Е
10	Α	В	С	D	Е	30	Α	В	С	D	Е	50	Α	В	С	D	Е
11	Α	В	С	D	Е	31	Α	В	С	D	Е	51	Α	В	С	D	Ε
12	Α	В	С	D	Е	32	Α	В	С	D	Е	52	Α	В	С	D	Е
13	Α	В	С	D	Е	33	Α	В	С	D	Е	53	Α	В	С	D	Е
14	Α	В	С	D	Е	34	Α	В	С	D	Е	54	Α	В	С	D	Е
15	Α	В	С	D	Е	35	Α	В	С	D	Е	55	Α	В	С	D	Е
16	Α	В	С	D	Е	36	Α	В	С	D	Е	56	Α	В	С	D	Е
17	Α	В	С	D	Е	37	Α	В	С	D	Е	57	Α	В	С	D	Е
18	Α	В	С	D	Е	38	Α	В	С	D	Е	58	Α	В	С	D	Е
19	Α	В	С	D	Е	39	Α	В	С	D	Е	59	Α	В	С	D	Е
20	Α	В	С	D	Е	40	Α	В	С	D	Е	60	Α	В	С	D	Е

## **GEOLOGY**

## PART – B (Descriptive Type)

Answer any eight questions.

 $(8 \times 5 = 40 \text{ Marks})$ 

- 1. Discuss Nebular hypothesis.
- 2. What is weathering and brief its types.
- 3. Draw the Hydrologic cycle.
- 4. How the earthquake occurs and its effect.
- 5. Discuss isometric system.
- 6. Write note on Polymorphism and Pseudomorphism.
- 7. Write geometric classification of folds.
- 8. Discuss Plate Tectonics.
- 9. Explain stratigraphy of Kerala.
- 10. Discuss the structure of Igneous rocks.
- 11. Brief about Mineral resources of Kerala.
- 12. Describe physical properties of Minerals.

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18	J – 2276

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19	J – 2276

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22	J – 2276

	23	J – 2276