

SECOND YEAR HIGHER SECONDARY EXAMINATION MARCH 2017

SUBJECT : GEOLOGY

CODE. NO: 5022

Qn No	Sub Qns	Answer Key/Value Points	Score	Total
1	-	Metamorphic / Name of any one metamorphic rock	1	1
2	-	Any two factors Heat, Pressure, fluid	$\frac{1}{2} + \frac{1}{2}$	1
3	-	Match correctly A with B or A with C Sandstone - Arenaceous - Quartzose Gabbro - Holocrystalline - Mafic Marble - Granulitic - Calcitic	$\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$	$1\frac{1}{2}$
4	(a)	Definition - Sedimentary rock	2	5
	(b)	classification - clastic, chemical and organic / classification based on grain size OR	3	
	(a)	Rocks formed by cooling of Magma	2	5
	(b)	 Either figure or Explanation	3	

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5	-	Match A with B or A with C Magnesite - Refractory - $MgCO_3$ Chalcopyrite - Electric wires - $CuFeS_2$ Graphite - Pencil - C	$\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$	$1\frac{1}{2}$
6	(a)	Mineral deposited formed during the crystallization of magma	1	3
	(b)	Minerals ^{formed} from Hydrothermal fluids	1	
	(c)	Minerals formed by Sedimentary process / Examples only for each one	1	
7	(a)	Any relevant point regarding - residual deposits	2	5
	(b)	Alluvial and Beach placer deposits (Explanation or examples)	3	
8		- C - Geothermal energy	1	1
9		Any relevant point regarding - atmospheric pollution	2	2

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10	-	Formed from buried vegetation - Accumulation of plant materials and their transformation	2	2
11		d- 30°	1	1
12.	(a)	Name of any three types of fold with diagrams	3	6
	(b)	Name three types of unconformities	3	
13.	~	Age of rock - Stratigraphic order... etc	2	2
14	-	Movement of Saline water to fresh water aquifer or surface reservoir Any one cause	2 1	3
15	-	Impacts on land, the water and atmosphere	2	2
16	(a)	Name any two seismic belts Circumpacific belt & Mediterranean-Himalayan belt etc	4	4
		OR	or	or
	(b)	i) Any two effects	2	
		(ii) Richter scale - Mercalli scale	2	4

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17.	-	Relative - does not give numerical age (younger or older) Absolute - specifying the actual number of years	2	2
18		Any Stratigraphic principle	3	3
19.		Preparedness, Response, Recovery, Mitigation / Pre-disaster, During disaster and after disaster	3	3
20	(a)	(i) Any three causes (ii) Any three mitigations or	3 3	6 or
	(b)	(i) Removal of materials from coast by coastal processes (ii) Mitigation strategies (Any four)	2 4	6
21.	-	Kerogene bearing rock is called oil shale Sedimentary rock containing tar like petroleum. (Write any one)	1	1
22	-	Any two points regarding g.w pollution Chemical, Septic systems, Fertilizers Industrial wastes ...ch	2	2

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23	-	(C) Seismograph	1	1
24.	-	Attempt . . CH ₃ , CFCs, CO ₂	1	1

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