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Topic:- DU_J19_MSC_GEO
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1) If the RQD value is 65, then the rock quality is said to be [Question ID = 2756]
1. Fair [Option ID $=11021$ ]
2. Good [Option ID $=11022$ ]
3. None of these [Option ID = 11024]
4. Excellent [Option ID = 11023]

Correct Answer :-

- Fair [Option ID = 11021]

2) If the hinge line of a fold has a pitch of $85^{\circ}$ on the easterly dipping axial surface, the fold is called [Question ID = 2716]
1. Recumbent fold [Option $\mathrm{ID}=10861$ ]
2. Reclined fold [Option ID = 10864]
3. Plunging upright fold [Option ID $=10862$ ]
4. Non-plunging inclined fold [Option ID $=10863$ ]

## Correct Answer :-

- Recumbent fold [Option ID = 10861]

3) Which of the following elements is present in 4 and 0 eordination with 0 ?
[Question ID = 2803]
1. $\mathrm{K}^{+}$[Option ID $\left.=11209\right]$
2. $\mathrm{Na}^{+}$[Option ID = 11211]
3. $\mathrm{Ca}^{2+}[$ Option ID $=11210]$
4. $\mathrm{Al}^{3+}$ [Option ID = 11212]

## Correct Answer :-

- $\mathrm{K}^{+}$[Option ID $\left.=11209\right]$

4) Which of the following part of EMR correspond to X-Rays?
[Question ID $=2785]$
1. $\quad 0.03 \mathrm{~nm}$ to 0.3 nm [Option $\mathrm{ID}=11138$ ]
2. $<0.03 \mathrm{~nm}$ [Option ID = 11137]
3. $0.4 \mu \mathrm{~m}$ to $0.7 \mu \mathrm{~m}$ [Option ID $=11139]$
4. $0.7 \mu \mathrm{~m}$ to $3 \mu \mathrm{~m}$ [Option ID $=11140$ ]

## Correct Answer :-

- $\quad<0.03 \mathrm{~nm}$ [Option ID $=11137$ ]

2. Pediment [Option ID = 10851]
3. Playa [Option ID = 10849]
4. Piedmont [Option ID $=10850$ ]

## Correct Answer :-

- Playa [Option ID = 10849]

6) A greisen deposit exposes the $\qquad$ part of a granitic body. [Question ID = 2736]
1. Uppermost [Option ID = 10942]
2. Middle [Option ID $=10943$ ]
3. Lower [Option ID $=10941$ ]
4. Basal [Option ID $=10944]$

Correct Answer :-

- Lower [Option ID = 10941]

7) The mineralogical abundance of the Earth's crust shows that $\qquad$ is the most abundant mineral. [Question ID = 2767]
1. Olivine [Option ID $=11068$ ]
2. Feldspar [Option ID $=11065$ ]
3. Quartz [Option ID = 11066]
4. Pyroxene [Option ID = 11067]

Correct Answer :-

- Feldspar [Option ID = 11065]

8) Serpentine is a [Question ID $=2740$ ]
1. Tectosilicate [Option ID $=10958$ ]
2. Inosilicate [Option ID = 10957]
3. Nesosilicate [Option ID $=10960$ ]
4. Phyllosilicate [Option ID = 10959]

## Correct Answer :-

- Inosilicate [Option ID = 10957]

9) A sedimentologist interprets a matrix-supported conglomerate with sharp, non-erosional base and with $a(p) a(i)$ imbrication of clast as product of [Question ID = 2722]
1. Unconformity [Option ID $=10885$ ]
2. Grain flow [Option ID = 10887]
3. Channel lag [Option ID = 10886]
4. Debris flow [Option ID $=10888$ ]

## Correct Answer :-

- Unconformity [Option ID $=10885$ ]

10) Bhakra dam is made up of [Question ID = 2755]
1. Earth fill [Option ID = 11017]
2. A combination of all [Option ID $=11020$ ]
3. Rock fill [Option ID = 11018]
11) Sea water is saline because [Question ID = 2729]
1. $\mathrm{Na}^{+2}$ has higher residency time compared to $\mathrm{Ca}^{+2}$ [Option ID $=10916$ ]
2. $\mathrm{Na}^{+}$and $\mathrm{Cl}^{-}$are most abundant cation and anion in seawater. [Option $\mathrm{ID}=10913$ ]
3. $\mathrm{Ca}^{+2}$ is les abundant in sea water than $\mathrm{Na}^{+2}$ [Option ID $=10915$ ]
4. $\mathrm{Na}^{+2}$ is abundant but $\mathrm{Cl}^{-}$is less abundant. [Option ID $=10914$ ]

## Correct Answer :-

- $\mathrm{Na}^{+}$and $\mathrm{Cl}^{-}$are most abundant cation and anion in seawater. [Option ID = 10913]

12) Texturally super mature sandstone is defined by [Question ID $=2772$ ]
1. Lots of clay, well-sorting, Subrounded grains [Option ID $=11086$ ]
2. Lots of clay, poor sorting, subangular grains [Option ID $=11085$ ]
3. Little or no clay, poor-soring, angular grains [Option $\mathrm{ID}=11088$ ]
4. No clay, well-soring, well rounded grains [Option ID = 11087]

## Correct Answer :-

- Lots of clay, poor sorting, subangular grains [Option ID = 11085]

13) In a 'Similar fold', the dip isogons drawn on the two limbs of the folded layer in a profile section
[Question ID = 2717]
1. diverge strongly towards the core [Option ID $=10867$ ]
2. remain parallel to the axial trace [Option ID $=10866]$.
3. converge strongly towards the core [Option ID $=1(855]$
4. converge weakly towards the core. [Option ID = 10868]

## Correct Answer :-

- converge strongly towards the corf [0Ntion ID $=10865$ ]


## 14) Early stages of diagenesis rith carbonate rocks show [Question ID = 2774]

1. Blocky cement [Option ID $\geq_{11094]}$
2. Rim cement [Option ID $=11095$ ]
3. Drusy cement [Option ID = 11093]
4. Pressure solution [Option $\mathrm{ID}=11096$ ]

## Correct Answer :-

- Drusy cement [Option ID = 11093]

15) The metamorphic facies not present in the low-P series metamorphism is [Question ID = 2741]
1. Amphibolite facies [Option ID $=10962$ ]
2. Epidote-amphibolite facies [Option ID $=10961$ ]
3. Pyroxene Hornfels facies [Option ID = 10963]
4. Sanidinite facies [Option ID = 10964]

- Epidote-amphibolite facies [Option ID = 10961]

16) Hydraulic conductivity is a function of: [Question ID = 2705]
1. Medium alone [Option ID $=10817]$
2. Both fluid and medium [Option ID = 10819]
3. None of the above [Option ID = 10820]
4. Fluid alone [Option ID $=10818$ ]

## Correct Answer :-

- Medium alone [Option ID = 10817]

17) The most fundamental unit of lithostratigraphy is: [Question ID = 2787]
1. Group [Option ID $=11145$ ]
2. Super Group [Option ID = 11146]
3. Member [Option ID $=11148$ ]
4. $\quad$ Formation [Option $\mathrm{ID}=11147$ ]

## Correct Answer :-

- Group [Option ID = 11145]

```
18) Which part of the Earth is marked by extensive weathering and formation of thick Fe and Al hydroxides and oxides? [Question ID = 2768]
1. Steppe [Option ID = 11070]
2. Tropical [Option ID \(=11072\) ]
3. Desert [Option ID = 11071]
4. Savana [Option ID = 11069]
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## Correct Answer :-

- Savana [Option ID = 11069]

19) The principal section of a uniaxial perteral contains [Question $I D=2760$ ]
1. Optic axis and one vertical symmetry axjs. [Option ID = 11040]
2. Optic axis and one horizontal symedetry axis [Option ID = 11039]
3. Optic axis and extraordinary rax 0 ption ID $=11038]$
4. Optic axis and ordinary ray [iption ID = 11037]

## Correct Answer :-

- Optic axis and ordinary ray [Option ID = 11037]

20) Resistivity sounding in groundwater exploration estimates: [Question ID = 2710]
1. Variation of resistivity with depth [Option ID $=10837$ ]
2. None of the above [Option ID = 10840]
3. Horizontal variation in resistivity [Option ID $=10838$ ]
4. Both Variation of resistivity with depth and Horizontal variation in resistivity [Option ID $=10839$ ]

## Correct Answer :-

- Variation of resistivity with depth [Option ID = 10837]

2. remains constant with height [Option
= 10935]
3. first increases and then decreases with height [Option ID $=10936$ ]
4. decreases with height [Option ID = 10934]

## Correct Answer :-

- increases with height [Option ID $=10933$ ]

22) This assemblage is characteristic of low to medium grade low-P series metamorphism of pelites [Question ID = 2739]
1. Kyanite+garnet+biotite+muscovite+quartz [Option ID $=10956$ ]
2. Garnet+sillimanite+Kfeldspar+biotite+quartz [Option ID = 10954]
3. Cordierite+sillimanite+Kfeldspar+quartz [Option ID = 10953]
4. Cordierite+biotite+muscovite+quartz [Option ID = 10955]

## Correct Answer :-

- Cordierite+sillimanite+Kfeldspar+quartz [Option ID = 10953]

23) A glide plane involves [Question ID = 2761]
1. Inversion + rotation [Option ID $=11044$ ]
2. Translation + inversion [Option ID $=11043$ ]
3. Reflection + translation [Option ID $=11042$ ]
4. Rotation + reflection [Option ID $=11041$ ]

## Correct Answer :-

- Rotation + reflection [Option ID $=11041$ ]

24) The seismic discontinuity within Earth at a depth qfabut 2,900 km is known as: [Question ID = 2786]
1. Gutenberg Discontinuity [Option ID $=11142$ ]
2. Mohorovicic Discontinuity [Option ID $=1114$
3. Lehmann Discontinuity [Option ID $=11143$
4. Conard Discontinuity [Option ID $=11.49$

## Correct Answer :-

- Mohorovicic Discontinuity [Ogtbin ID = 11141]


## 25) The spinifex texture with long spines of olivine is associated with: [Question ID = 2801]

1. Komatiite [Option ID = 11203]
2. Kimberlite [Option ID = 11204]
3. Gabbro [Option ID = 11202]
4. Basalt [Option ID $=11201$ ]

## Correct Answer :-

- Basalt [Option ID $=11201]$

26) The Ganga Brahmaputra groundwater province includes [Question ID = 2712]
1. The Aravallis [Option ID = 10847]
2. The Deccan basalts [Option ID $=10846$ ]
[^0]1. Calcareous to siliceous [Option ID $=11116$ ]
2. Siliceous to phosphatic [Option ID $=11113$ ]
3. Chitin-phosphate to siliceous [Option ID $=11115$ ]
4. Chitin-phosphate to calcareous [Option ID = 11114]

## Correct Answer :-

- Siliceous to phosphatic [Option ID = 11113]

28) Glossopteris became less diverse in [Question ID = 2744]
1. Permian [Option ID $=10973$ ]
2. Triassic [Option ID $=10975$ ]
3. Cretaceous [Option ID $=10974$ ]
4. Jurassic [Option ID = 10976]

Correct Answer :-

- Permian [Option ID = 10973]

29) The physics of how organisms move is known as [Question ID $=2753$ ]
1. Biomechanics [Option ID $=11010$ ]
2. Biotechnology [Option ID = 11009]
3. biostratinomy [Option ID $=11012$ ]
4. bioimmuration [Option ID $=11011$ ]

## Correct Answer :-

- Biotechnology [Option ID = 11009]

30) Deepest Trench occurs in [Question $I \Omega=2732]$
1. Atlantic Ocean [Option ID $=10927$ ]
2. Indian Ocean [Option ID $=10928$ ]
3. Pacific Ocean [Option ID $=109267]$
4. Arctic Ocean [Option ID $=10925]$

Correct Answer :-

- Arctic Ocean [Option ID = 10925]

31) In pericline law of twining in plagioclase, the rhombic section is parallel to [Question ID = 2762]
1. (101) [Option ID $=11047]$
2. (001) [Option ID $=11046]$
3. (011) [Option ID = 11048]
4. (010) [Option ID $=11045]$

Correct Answer :-

- (010) [Option ID = 11045]

1. $\mathrm{KAlSi}_{2} \mathrm{O}_{8}$ [Option ID $=11059$ ]
2. $\mathrm{KAlSi}_{2} \mathrm{O}_{6}$ [Option ID $=11060$ ]
3. $\mathrm{KAlSi}_{3} \mathrm{O}_{8}$ [Option ID $=11057$ ]
4. $\mathrm{KAl}_{2} \mathrm{Si}_{3} \mathrm{O}_{8}$ [Option ID $=11058$ ]

## Correct Answer :-

- $\mathrm{KAlSi}_{3} \mathrm{O}_{8}$ [Option ID $=11057$ ]

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33) A fold with a sharp hinge and slightly bent (wavy) limbs in a profile section is called: [Question ID = 2715]
```

1. Arrowhead fold [Option ID $=10859]$
2. Box fold [Option ID $=10860$ ]
3. Polyclinal fold [Option ID $=10858$ ]
4. Chevron fold [Option ID $=10857$ ]

## Correct Answer :-

- Chevron fold [Option ID $=10857]$

34) AFM diagrams for metamorphic rocks can be called as
[Question ID $=$ 2743]
1. Compatibility diagrams [Option ID $=10971$ ]
2. Pseudocomponent diagrams [Option ID = 10970]
3. Phase diagrams [Option ID $=10969$ ]
4. All of the above [Option ID $=10972$ ]

## Correct Answer :-

- Phase diagrams [Option ID = 10969]

35) The monsoon has well developed cycern[Question ID = 2733]
1. East United State [Option ID $=10932$
2. Africa [Option ID = 10931]
3. Indian and South East Asia [Optianeb = 10929]
4. North Australia [Option ID = 10s

## Correct Answer :-

- Indian and South East Asia [Option ID = 10929]

36) The drainage pattern over a gently sloping, uniformly resistant terrain will be [Question ID = 2776]
1. Parallel [Option $\operatorname{ID}=11103]$
2. Trellis [Option ID $=11102$ ]
3. Dendritic [Option ID = 11104]
4. Rectangular [Option ID $=11101$ ]

## Correct Answer :-

- Rectangular [Option ID = 11101]

[^1]
## Correct Answer :-

- $6 \mathrm{kbar}, 610^{\circ} \mathrm{C}$ [Option ID = 11193]

38) The last appearance of Hipparion defines the: [Question ID $=2789$ ]
1. Paleocene/Eocene boundary [Option ID = 11153]
2. Miocene/Pliocene boundary [Option ID $=11156$ ]
3. Oligocene/Miocene boundary [Option ID = 11155]
4. Pliocene/Pleistocene boundary [Option ID $=11154]$

Correct Answer :-

- Paleocene/Eocene boundary [Option ID = 11153]

39) The bedforms of the lower flow regime migrate: [Question ID = 2769]
1. Downstream [Option ID $=11074$ ]
2. Do not migrate [Option ID = 11076]
3. Upstream [Option ID = 11073]
4. Transverse to flow [Option ID $=11075$ ]

Correct Answer :-

- Upstream [Option ID $=11073$ ]

40) Calcium in garnet is in [Question ID = 2764]
1. 3 fold coordination [Option ID $=11053$ ]
2. 8 fold coordination [Option ID $=11056$ ]
3. 6 fold coordination [Option ID $=11055$ ]
4. 4 fold coordination [Option ID $=11054$ ]

## Correct Answer :-

- 3 fold coordination [Option ID $=11053$ ]

41) The cephalopod with bothaddle and lobes denticulated is: [Question ID $=2782$ ]
1. Goniatite [Option ID = 11125]
2. Ammonite [Option ID = 11127]
3. None of the above [Option ID $=11128$ ]
4. Ceratitie [Option ID $=11126$ ]

## Correct Answer :-

- Goniatite [Option ID = 11125]

42) The marine to continental transition in the Himalayan foreland is marked by: [Question ID = 2792]
1. Upper Dharamshala to Lower Siwaliks [Option ID = 11168]
2. Lower to Middle Upper Siwalik [Option ID = 11165]
3. Subathu to Dagshai Formation [Option ID = 11167]

- Lower to Middle Upper Siwalik [Option ID = 11165]

43) Cambrian explosion marks the beginning of -- [Question ID = 2749]
1. extinction of trilobites [Option ID $=10996$ ]
2. Skeletalisation [Option $\mathrm{ID}=10993$ ]
3. Diversification of corals [Option ID $=10994$ ]
4. Trilobite expansion [Option ID $=10995$ ]

## Correct Answer :-

- Skeletalisation [Option ID = 10993]

44) In order to analyze paleo-environment/s of a sedimentary basin in geological rock record, we mainly depend on [Question ID = 2721]
1. Paleo-current analyses [Option ID $=10882$ ]
2. Facies association analyses [Option ID $=10883$ ]
3. Facies analyses [Option ID $=10881$ ]
4. Lithological description [Option ID $=10884$ ]

Correct Answer :-

- Facies analyses [Option ID $=10881$ ]

45) Bone coal refers to [Question ID $=2720$ ]
1. Very pure coal containing low ash content [Option ID $=10878$ ]
2. Dense coal with more than $90 \%$ carbon [Option ID $=10880$ ]
3. Very impure coal containing high ash content [Option ID $=10877$ ]
4. Dull, black coal that breaks with conchoidal fracture [Option 10879]

## Correct Answer :-

- Very impure coal containing high ash content Qption ID = 10877]

46) Plutonic equivalent of Trachyte is: [Gyéstion ID $=2802]$
1. Syenite [Option ID = 11207]
2. Granite [Option ID = 11205]
3. Diorite [Option ID = 11208]
4. Granodiorite [Option ID $=\mathbf{N} 06$ ]

Correct Answer :-

- Granite [Option ID = 11205]

47) Humans dispersed out from _ centre of origin [Question ID = 2745]
1. African [Option ID $=10977$ ]
2. European [Option ID $=10979$ ]
3. New World [Option ID $=10980$ ]
4. Asian [Option ID $=10978$ ]

Correct Answer :-

- African [Option ID = 10977]

3. Orthoclase [Option ID = 11200]
4. Aragonite [Option ID $=11198$ ]

## Correct Answer :-

- Pyrite [Option ID = 11197]

49) Pigeonite is a clinopyroxene that contains [Question ID $=2759$ ]
1. Less Ca than Augite [Option ID $=11036$ ]
2. More Ca than Augite [Option ID = 11035]
3. Less Na than Augite [Option ID = 11034]
4. More Na than Augite [Option ID = 11033]

## Correct Answer :-

- More Na than Augite [Option ID = 11033]

50) The Ganges-Brahmputra delta is characterized by [Question ID = 2777]
1. Tide dominated marshy island, bars and mangroves [Option ID $=11107$ ]
2. Fluvial dominated long streams with natural levees [Option ID = 11105]
3. Braid plains and bars [Option ID $=11108$ ]
4. Wave dominated beaches and barriers [Option ID $=11106$ ]

Correct Answer :-

- Fluvial dominated long streams with natural levees [Option ID = 11105]

51) The mantle plume related to Deccan Trap is known as: Question ID = 2791]
1. Kergulean [Option ID = 11161]
2. Jan Mayen [Option ID = 11164]
3. Marion [Option ID $=11163$ ]
4. Reunian [Option ID $=11162$ ]

## Correct Answer :-

- Kergulean [Option ID = 11161]

52) Assertion (A):Tetrapods arevertebrates but some vertebrates are not tetrapods

Reasoning_(R): Vertebrae appeared first followed by tetrapod limb in the evolutionary history of chordates [Question ID = 2751]

1. R explains A [Option $\mathrm{ID}=11003$ ]
2. $\quad A \& R$ are false [Option ID $=11002$ ]
3. A is false [Option $\mathrm{ID}=11001$ ]
4. R does not explain A [Option $\mathrm{ID}=11004$ ]

## Correct Answer :-

- $\quad \mathrm{A}$ is false [Option ID $=11001$ ]

53) The plagioclase with ab50 to ab70 is known as [Question ID = 2796]
1. Albite [Option ID = 11181]
2. Anorthite [Option ID $=11184$ ]
3. Oligoclase [Option ID = 11182]
54) In prograde metamorphism of mafic rocks from greenschist to amphibolite facies which is/are the characteristic change/s [Question ID = 2735]
1. Change of anorthite content of plagioclase from oligoclase to andesine [Option $\operatorname{ID}=10937$ ]
2. First appearance of orthopyroxene [Option $I D=10940$ ]
3. Both Change of anorthite content of plagioclase from oligoclase to andesine and Change of amphibole composition from actinolite to common hornblende [Option ID $=10939$ ]
4. Change of amphibole composition from actinolite to common hornblende [Option ID = 10938]

## Correct Answer :-

- Change of anorthite content of plagioclase from oligoclase to andesine [Option ID = 10937]

55) Speciation by geographic isolation is known as
[Question ID = 2748]
1. Allopatric [Option $\mathrm{ID}=10989$ ]
2. Sympatric [Option $\mathrm{ID}=10990$ ]
3. None of these [Option ID = 10992]
4. Anagenesis [Option ID $=10991]$

## Correct Answer :-

- Allopatric [Option ID = 10989]

56) Kyanite=> Sillimanite [Question ID = 2742]
1. A continuous reaction [Option ID $=10966$ ]
2. A discontinuous reaction [Option ID $=10965$ ]
3. A oxidation reaction [Option $\mathrm{ID}=10968$ ]
4. An Ion-Exchange reaction [Option ID = 10967$]$

## Correct Answer :-

- A discontinuous reaction [Option ID < 10965 ]

57) Total number of lattice prints in a 3-d primitive cell is
[Question ID = 13542]
1. 1 [Option ID = 24165]
2. 4 [Option ID $=24167$ ]
3. 2 [Option ID $=24166$ ]
4. 8 [Option ID $=24168$ ]

Correct Answer :-

- 1 [Option ID $=24165]$

58) Reversal of paleocurrent, cross bedding and mud drapes commonly occur in: [Question ID = 2724]
1. None of the above [Option ID $=10896$ ]

## Correct Answer :-

- $\quad$ Fluvial dominated delta [Option $\operatorname{ID}=10893]$

59) Which of the following Brachiopod is still living? [Question ID = 2780]
1. Athyris [Option ID = 11118]
2. Orthis [Option ID = 11117]
3. Lingula [Option ID = 11120]
4. Atryrapa [Option ID = 11119]

## Correct Answer :-

- Orthis [Option ID = 11117]

60) Which of the following silica minerals is a characteristic of high pressure in excess of 20 Kbar? [Question ID = 2794]
1. Cristobalite [Option ID $=11176]$
2. Opal [Option ID = 11173]
3. Tridymite [Option ID = 11174]
4. Coesite [Option ID = 11175]

Correct Answer :-

- Opal [Option ID = 11173]

61) Which of the following minerals is a cyclosilicate? [Question ID = 2793]
1. Olivine [Option ID = 11169]
2. Anthophyllite [Option ID = 11172]
3. Enstatite [Option ID = 11170]
4. Beryl [Option ID $=11171$ ]

## Correct Answer :-

- Olivine [Option ID = 11169]

62) Which of the followings rocks is the most abundant sedimentary rock in geological record of the Earth? [Question ID = 2766
1. Mud rocks [Option ID $=110 \mathrm{n}$ ]
2. Limestones [Option ID $=11063$ ]
3. Sandstones [Option ID $=11062$ ]
4. Conglomerates [Option ID $=11064$ ]

## Correct Answer :-

- Mud rocks [Option ID = 11061]

63) Highstand of Sea level favours [Question ID = 2723]
1. Calcitic ooids due to higher $\mathrm{CO}_{2}$ and lower $\mathrm{Mg} / \mathrm{Ca}$ ratio [Option ID $=10889$ ]
2. Aragonite ooids due to lower $\mathrm{CO}_{2}$ and higher $\mathrm{Mg} / \mathrm{Ca}$ ratio [Option ID $=10891$ ]
3. Calcite ooids due to lower $\mathrm{CO}_{2}$ and lower $\mathrm{Mg} /$ Ca ratio [Option ID $=10892$ ]
4. Calcitic ooids due to higher $\mathrm{CO}_{2}$ and higher $\mathrm{Mg} /$ Ca ratio [Option ID $=10890$ ]

FirstRanker.com
Firstranker's choice
64) Ediacaran Metazoan appeared at: [Question ID = 2790]

1. Hadean [Option ID $=11159$ ]
2. Archean [Option ID $=11160$ ]
3. paleo Proterozoic [Option ID $=11157$ ]
4. Neoproterozoic [Option ID $=11158$ ]

## Correct Answer :-

- paleo Proterozoic [Option ID $=11157$ ]

65) Coral reefs are generally found in [Question ID = 2726]
1. Tropical regions [Option ID $=10902$ ]
2. Subtropical regions [Option ID $=10904$ ]
3. Mid latitude region [Option ID $=10903$ ]
4. Polar regions [Option ID $=10901$ ]

## Correct Answer :-

- Polar regions [Option ID $=10901$ ]

66) 



The above figure shows the flow behaviour of three plastic materials $a, b, c$. Which of the three substances show a 'strain hardening' nature?
[Question ID = 2718]

1. none of the above [Option ID $=1082$ 2
2. material a [Option ID $=10869]$
3. material b [Option ID $=10878$
4. material c [Option ID $=10871$ ]

## Correct Answer :-

- material a [Option ID $=10869$ ]

67) PT stability curve of Muscovite intersects Granite melt at about [Question ID = 2798]
1. 1.5 kbar, $700^{\circ} \mathrm{C}$ [Option ID $=11190$ ]
2. $3 \mathrm{kbar}, 1000^{\circ} \mathrm{C}$ [Option ID $=11191$ ]
3. $1 \mathrm{kbar}, 1500^{\circ} \mathrm{C}$ [Option $\left.\mathrm{ID}=11189\right]$
4. $4 \mathrm{kbar}, 900^{\circ} \mathrm{C}$ [Option ID $=11192$ ]

## Correct Answer :-

- $1 \mathrm{kbar}, 1500^{\circ} \mathrm{C}$ [Option ID $=11189$ ]

2. Orogeny [Option ID = 10983]
3. Climate [Option ID = 10982]
4. marine transgression [Option ID $=10984$ ]

## Correct Answer :-

- Tectonics [Option ID = 10981]

69) The Zawar deposit in Udaipur district is an important source of $\qquad$ in India.
[Question ID = 2737]
1. Lead - Zinc [Option ID $=10946$ ]
2. Gold - Silver [Option ID $=10948$ ]
3. Tin - Tungsten [Option ID = 10947]
4. Copper [Option ID $=10945$ ]

Correct Answer :-

- Copper [Option ID = 10945]

70) The hydrographs of the streams are useful to asses: [Question ID = 2707]
1. River response [Option ID $=10827$ ]
2. Base flow [Option ID $=10825$ ]
3. Storm flow [Option ID $=10826$ ]
4. All of the above [Option ID $=10828$ ]

## Correct Answer :-

- Base flow [Option ID = 10825]

71) Imperceptible/very slow downslope movement of egil/rock is known as: [Question ID = 2754]
1. Creep [Option ID $=11015$ ]
2. Topple [Option ID $=11014$ ]
3. Avalanche [Option ID = 11013]
4. Debris flow [Option ID $=11016$ ]

Correct Answer :-

- Avalanche [Option ID $=11013]$


## 72) Which of the following type of volcanic activity is marked by fissure and basaltic flows? [Question ID = 2778]

1. Plinian [Option ID = 11110]
2. Icelandic [Option ID = 11111]
3. Pelean [Option ID = 11112]
4. Vesuvian [Option ID = 11109]

## Correct Answer :-

- Vesuvian [Option ID = 11109]

73) Which of the following is marked by loop shaped brachial skeleton? [Question ID = 2781]
1. Terebratula [Option ID $=11123$ ]
2. Productus [Option ID = 11124]

## Correct Answer :-

- $\quad$ Rhynchonella [Option ID $=11121$ ]

74) Which of the following trace fossil indicates the deep marine conditions? [Question ID = 2771]
1. Zoophycos [Option ID = 11083]
2. Nereites [Option ID = 11084]
3. Skolithos [Option ID = 11082]
4. Cruziana [Option ID = 11081]

## Correct Answer :-

- Cruziana [Option ID = 11081]

75) Which of the following is a Li bearing pyroxene? [Question ID = 2797]
1. Spodumene [Option ID = 11187]
2. Jadeite [Option ID = 11186]
3. Diopside [Option ID $=11188$ ]
4. Enstatite [Option ID $=11185$ ]

Correct Answer :-

- Enstatite [Option ID = 11185]

76) Which of the following plant fossil is not found in Lower Gondwana? [Question ID = 2784]
1. Glossopteris [Option ID $=11133$ ]
2. Vertebraria [Option ID $=11136$ ]
3. Nilssonia [Option ID $=11135$ ]
4. Schizoneura [Option ID $=11134$ ]

## Correct Answer :-

- Glossopteris [Option ID = 11133]

77) Which of the following is not a sulfide ore mineral? [Question ID = 2738]
1. Molybdenite [Option ID $=10949]$
2. Bornite [Option ID $=10950]$
3. Marcasite [Option ID $=10952$ ]
4. Cuprite [Option ID = 10951]

## Correct Answer :-

- Molybdenite [Option ID = 10949]

```
78) Which of the following map can give direction of groundwater flow: [Question ID = 2709]
1. Water level fluctuation map [Option ID = 10834]
2. None of the above [Option ID = 10836]
3. Depth to water level map [Option ID = 10833]
4. Water table contour map [Option ID = 10835]
```

Correct Answer :-
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1. Bituminous coal [Option ID $=11092$ ]
2. Peat [Option ID $=11089$ ]
3. Lignite [Option ID = 11090]
4. Anthracite [Option ID = 11091]

## Correct Answer :-

- Peat [Option ID = 11089]

80) Which of the following primary producer with calcareous skeletal framework evolved during the Mesozoic marine revolution [Question ID $=2750$ ]
1. diatoms [Option ID = 10998]
2. coccolithophorids [Option ID $=10999$ ]
3. radiolarians [Option ID = 10997]
4. sponges [Option ID $=11000$ ]

Correct Answer :-

- radiolarians [Option ID = 10997]

81) Which of the following methods is best suited to date the marine carbonates uptothe last 30,000 yr BP [Question ID = 2725]
1. ${ }^{210} \mathrm{~Pb}$ dating [Option ID $=10899$ ]
2. Thermoluminescence dating [Option ID $=10897$ ]
3. U/Th dating [Option ID $=10900$ ]
4. Radiocarbon dating [Option ID $=10898$ ]

## Correct Answer :-

- Thermoluminescence dating [Option ID $=10897]$

82) In an isotropic aquifer [Question ID =~08]
1. None of the above [Option ID $=1083275$
2. Aquifer parameters vary in space and direttion both [Option ID $=10831$ ]
3. Aquifer parameters are same in ald directions [Option ID $=10829$ ]
4. Aquifer parameters does not var-spatially [Option ID = 10830]

## Correct Answer :-

- Aquifer parameters are same in all directions [Option ID = 10829]

83) An unconformity where the lower (underlying the unconformity surface) unit is essentially of plutonic rocks, is known as: [Question ID = 2719]
1. An angular unconformity [Option ID $=10875$ ]
2. A non-conformity [Option ID $=10876]$
3. A disconformity [Option ID $=10873$ ]
4. A para-conformity [Option ID $=10874$ ]

Correct Answer:-

- A disconformity [Option ID $=10873$ ]

2. None of the above [Option ID = 10856
3. The piezometric head falls below the top of the lower confining layer [Option ID = 10855]
4. The piezometric head falls below the bottom of the upper confining layer [Option ID = 10853]

## Correct Answer :-

- The piezometric head falls below the bottom of the upper confining layer [Option ID =10853]

85) The oldest seafloor on Earth is not more than [Question ID = 2730]
1. 2 million years old. [Option ID $=10920$ ]
2. 200 million years old. [Option ID = 10917]
3. 20 million years old. [Option ID $=10919$ ]
4. 2 billion years old. [Option ID $=10918$ ]

## Correct Answer :-

- 200 million years old. [Option ID = 10917]

86) In unconfined aquifer Storativity is approximately equal to: [Question ID = 2706]
1. Intrinsic permeability [Option ID $=10822$ ]
2. Conductivity [Option ID = 10821]
3. None of the above [Option ID $=10824$ ]
4. Specific retention [Option ID $=10823$ ]

## Correct Answer :-

- Conductivity [Option ID = 10821]

87) The optic axial plane of Epidote is [Question ID $=2$
1. (110) [Option ID = 11032]
2. (001) [Option ID = 11031]
3. (100) [Option ID $=11029]$
4. (010) [Option ID = 11030]

## Correct Answer :-

- (100) [Option ID = 11029]

88) In biostratigraphy, grapkidcorrelation method uses [Question ID = 2752]
1. Ranges of all species [Option ID $=11006$ ]
2. Abundance zones [Option ID $=11007$ ]
3. Concurrent range zones [Option ID $=11008$ ]
4. Assemblage zones [Option ID $=11005$ ]

## Correct Answer :-

- Assemblage zones [Option ID $=11005$ ]

89) The high temperature monoclinic variety of alkali feldspar is known as [Question ID = 2795]
1. $\quad$ Albite [Option ID $=11177$ ]
2. Microcline [Option ID = 11180]
3. Sanidine [Option ID $=11179$ ]
4. Anorthoclase [Option ID $=11178$ ]

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90) The Ninety East Ridge is present in which ocean [Question ID = 2731]

1. Arctic [Option ID $=10924$ ]
2. Atlantic [Option ID = 10921]
3. Pacific [Option ID $=10923$ ]
4. Indian [Option ID $=10922$ ]

## Correct Answer :-

- Atlantic [Option ID = 10921]

91) Sodium Adsorption Ratio in groundwater quality is used for studying [Question ID = 2711]
1. Hydrochemical facies of water samples [Option ID $=10841$ ]
2. Suitability of groundwater for irrigation uses [Option ID $=10843$ ]
3. Portability of water [Option ID $=10844$ ]
4. Metamorphic facies of rock samples [Option ID $=10842$ ]

## Correct Answer :-

- Hydrochemical facies of water samples [Option ID $=10841$ ]

92) The Greenland ice sheet is defined by
[Question ID $=2775$ ]
1. Wet base [Option ID = 11097]
2. Dry base [Option ID = 11098]
3. Dry-wet transition [Option ID = 11099]
4. None of the above [Option ID = 11100]

## Correct Answer :-

- Wet base [Option ID = 11097]

93) The Hadean Eon corresponds tyėelution of Earth during;
[Question ID $=$ 2788]
1. 2500 Ma to 542 Ma [Option $\mathrm{=}$ 11150]
2. 4560 Ma to 3850 Ma [Option ID = 11149]
3. $<542 \mathrm{Ma}$ [Option ID = 11152]
4. 3850 Ma to 2500 Ma [Option ID = 11151]

## Correct Answer :-

- 4560 Ma to 3850 Ma [Option ID = 11149]

94) The type specimen used while describing a new species is known as
[Question ID $=2747$ ]
1. Syntype [Option ID = 10986]
2. Holotype [Option ID $=10987$ ]
3. Paratype [Option ID $=10985$ ]
```
95) The Agnostus trilobite from Cambrian and Ordovician is marked by
[Question ID = 2783]
1. Very large pygidium but very small cephalon [Option ID = 11129]
2. Small pygidium but no cephalon [Option ID = 11132]
3. Very small pygidium but very large cephalon [Option ID = 11130]
4. Pygidium and cephalon are almost similar in size [Option ID = 11131]
```


## Correct Answer :-

- Very large pygidium but very small cephalon [Option ID = 11129]

96) The transition from lower to upper flow regime occurs when Froude No is
[Question ID = 2770]
1. $\mathrm{Fr}=<0.1$ [Option $\mathrm{ID}=11080]$
2. $\mathrm{Fr}=>0.1$ [Option $\mathrm{ID}=11077$ ]
3. $\mathrm{Fr}=\sim 1$ [Option $\mathrm{ID}=11079$ ]
4. $\mathrm{Fr}=<1$ [Option ID $=11078$ ]

Correct Answer :-

- $\mathrm{Fr}=>0.1$ [Option ID $=11077$ ]

97) The wind system in the equatorial areas is known asieuestion ID = 2728]
1. Monsoon [Option ID $=10912$ ]
2. Doldrums [Option ID = 10911]
3. Westerlies [Option ID = 10909]
4. Trades [Option ID = 10910]

## Correct Answer :-

- Westerlies [Option ID = 10909]

98) The cosmic ray intensity is Thinimum at the magnetic [Question ID = 2727]
1. Equator [Option ID = 10905]
2. North pole [Option ID = 10906]
3. South pole [Option ID = 10907]
4. Tropic of cancer [Option ID $=10908$ ]

## Correct Answer :-

- Equator [Option ID = 10905]

```
99) Anorthoclase is [Question ID = 2763]
1. Intermediate between Microcline and Albite [Option ID = 11050]
2. Intermediate between sanidine and Albite [Option ID = 11051]
3. Intermediate between orthoclase and Anorthite [Option ID = 11049]
4. Intermediate between sanidine and Anorthite. [Option ID = 11052]
```

100) An imaginary horizontal reference line located at the maximum horizontal dimension or diameter of a tunnel is called [Question ID = 2757]
1. Tunnel Line [Option ID $=11025$ ]
2. Stress Line [Option ID = 11028]
3. Spring Line [Option ID $=11027$ ]
4. Pressure Line [Option ID $=11026$ ]

## Correct Answer :-

- Tunnel Line [Option ID $=11025$ ]


[^0]:    4. Bhabar and Tarai belts [Option ID $=10848$ ]
[^1]:    37) The triple point for the kyanite, sillimanite and andalusite occurs at: [Question ID = 2799]
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