# DU MSc Geology

Topic:- GEO MSC S2

# 1) Most minerals melt to form a liquid of the same composition as the solid. The process is called [Question ID = 2041]

- 1. Incongruent melting [Option ID = 8158]
- 2. Congruent melting [Option ID = 8159]
- 3. Fractional melting [Option ID = 8160]
- 4. Fractional crystallization [Option ID = 8161]

#### Correct Answer :-

• Congruent melting [Option ID = 8159]

# 2) A concordant intrusive body with a flat base and domed mushroom shaped roof is called [Question ID = 2042]

- 1. Dyke [Option ID = 8162]
- 2. Laccolith [Option ID = 8163]
- 3. Lopolith [Option ID = 8164]
- 4. Batholith [Option ID = 8165]

#### Correct Answer :-

• Laccolith [Option ID = 8163]

# 3) Widmanstatten exsolution pattern is common in

# [Question ID = 2043]

- 1. Iron meteorites [Option ID = 8166]
- 2. Chondrites [Option ID = 8167]
- 3. Stony iron meteorites [Option ID = 8168]
- 4. Basalts [Option ID = 8169]

#### Correct Answer :-

• Iron meteorites [Option ID = 8166]

# 4) Soret Effect is a term associated with

# [Question ID = 2044]

- 1. Viscosity [Option ID = 8170]
- 2. Diffusion [Option ID = 8171]
- 3. Melting [Option ID = 8172]
- 4. Buoyancy [Option ID = 8173]

# Correct Answer :-

• Diffusion [Option ID = 8171]

# 5) During crystallization of a melt plagioclase become richer in

# [Question ID = 2045]

- 1. Sr [Option ID = 8174]
- 2. Na [Option ID = 8175]
- 3. Ca [Option ID = 8176]
- 4. Ba [Option ID = 8177]

# Correct Answer :-

• Na [Option ID = 8175]

# 6) What is the most dominant rock type of Deccan traps?

# [Question ID = 2046]

- 1. volcanic tuff [Option ID = 8178]
- 2. basalts [Option ID = 8179]
- 3. Bole bed [Option ID = 8180]
- 4. rhyolite [Option ID = 8181]

# Correct Answer :-

basalts [Option ID = 8179]

# 7) What is the effect of water on mineral-melting at a given pressure?

# [Question ID = 2047]

1. Water lowers melting temperature

[Option ID = 8182]



2. Water raises the melting temperature

[Option ID = 8183]

3. Does not affect melting temperature

[Option ID = 8184]

4. None of these

[Option ID = 8185]

#### Correct Answer :-

· Water lowers melting temperature

[Option ID = 8182]

# 8) Which of the following Nesosilicates is a common constituent of basalt?

#### [Question ID = 2048]

- 1. Garnet [Option ID = 8186]
- 2. Olivine [Option ID = 8187]
- 3. Silimanite [Option ID = 8188]
- 4. Zircon [Option ID = 8189]

#### Correct Answer :-

• Garnet [Option ID = 8186]

# 9) The acute bisectrix figure is observed on a crystal plate

### [Question ID = 2049]

- 1. Cut normal to obtuse bisectrix [Option ID = 8190]
- 2. Cut normal to acute bisectrix [Option ID = 8191]
- 3. Cut parallel to optic axes [Option ID = 8192]
- 4. Cut parallel to acute bisectrix [Option ID = 8193]

#### Correct Answer :-

• Cut normal to acute bisectrix [Option ID = 8191]

# 10) Jadeite is a type of

### [Question ID = 2050]

- 1. Olivine [Option ID = 8194]
- 2. Mica [Option ID = 8195]
- 3. Pyroxene [Option ID = 8196]
- 4. Amphibole [Option ID = 8197]

# Correct Answer :-

• Pyroxene [Option ID = 8196]

# 11) If in a deforming rock body, stress is found to be proportional to strain rate, the material (rock) behaviour is called [Question ID = 2051]

- 1. Elastic [Option ID = 8198]
- 2. Plastic [Option ID = 8199]
- 3. Elastico-viscous [Option ID = 8200]
- 4. Viscous [Option ID = 8201]

# Correct Answer :-

• Viscous [Option ID = 8201]

# 12) If a stretching lineation is found on a cleavage plane, the direction of maximum shortening is likely to be: [Question ID = 2052]

- 1. Parallel to the lineation, on the cleavage plane [Option ID = 8202]
- 2. Perpendicular to the lineation, on the cleavage plane [Option ID = 8203]
- 3. Perpendicular to the cleavage, parallel to the lineation [Option ID = 8204]
- 4. Perpendicular to both the cleavage plane and the lineation. [Option ID = 8205]

# Correct Answer :-

• Perpendicular to both the cleavage plane and the lineation. [Option ID = 8205]

# 13) A rock shows very well developed foliation, but no distinct lineation (S-tectonite). The type of strain most likely representative of the deformation is

# [Question ID = 2053]

- 1. Pure flattening [Option ID = 8206]
- 2. General flattening [Option ID = 8207]
- 3. Plane strain [Option ID = 8208]
- 4. Pure constriction. [Option ID = 8209]

# Correct Answer:-

• Pure flattening [Option ID = 8206]

14) According to Anderson's theory of faulting, the principal stress axis  $\sigma_1$  (maximum compressive stre



# during: [Question ID = 2054] 1. Strike-slip faulting [Option ID = 8210] 2. Normal faulting [Option ID = 8211] 3. Reverse faulting [Option ID = 8212] 4. Wrench faulting. [Option ID = 8213] Correct Answer :- Normal faulting [Option ID = 8211] 15) A fault plane strikes N-S and dips 70° E. On the fault plane, the slickenside lineations show a pitch of 65° northerly. Which of the following interpretations is correct? [Question ID = 2055] 1. It is an oblique-slip reverse fault with sinistral sense wrench component [Option ID = 8214] 2. It is an oblique-slip normal fault with sinistral sense wrench component [Option ID = 8215] 3. It is an oblique slip normal fault with a dextral sense wrench component [Option ID = 8216] 4. It is a strike-slip fault with sinistral wrench component. [Option ID = 8217] Correct Answer :-• It is an oblique-slip normal fault with sinistral sense wrench component [Option ID = 8215] 16) Humans dispersed out from ---- center of origin [Question ID = 2056] 1. African [Option ID = 8218] 2. Asian [Option ID = 8219] 3. European [Option ID = 8220] 4. American. [Option ID = 8221] Correct Answer :- African [Option ID = 8218] 17) Glossopteris became less diverse in [Question ID = 2057] 1. Permian [Option ID = 8222] 2. Cretaceous [Option ID = 8223] 3. Triassic [Option ID = 8224] 4. Jurassic [Option ID = 8225] Correct Answer :- Triassic [Option ID = 8224] 18) Mesozoic reefs are formed primarily by [Question ID = 2058] Sponges [Option ID = 8226] 2. Archaeocyathids [Option ID = 8227] 3. Rugose corals [Option ID = 8228] 4. Scleractinian corals [Option ID = 8229]

Correct Answer :-

Scleractinian corals



[Option ID = 8229]

19) A taxon that disappears for one or more periods from the fossil record, and reappears later is called as
[Question ID = 2059]

1. Zombie taxon [Option ID = 8230]

2. Ghost taxon [Option ID = 8231]

3. Elvis taxon [Option ID = 8232]

4. Lazarus taxon [Option ID = 8233]

Correct Answer:

• Lazarus taxon [Option ID = 8233]

20) Pascichnia is term used for
[Question ID = 2060]

1. Grazing traces [Option ID = 8234]

2. Crawling traces [Option ID = 8235]

- 3. Resting traces [Option ID = 8236]
- 4. Dwelling traces [Option ID = 8237]

#### Correct Answer :-

• Grazing traces [Option ID = 8234]

# 21) When an organism achieves sexual maturity as a juvenile, the heterochronic change is termed as

# [Question ID = 2061]

1. Pedomorphosis

[Option ID = 8238]

2. Peramorphosis

[Option ID = 8239]

3. Atavism

[Option ID = 8240]

4. None of these

[Option ID = 8241]

#### Correct Answer :-

Pedomorphosis

[Option ID = 8238]

# 22) Hyalophane is a

# [Question ID = 2062]

- 1. Mica [Option ID = 8242]
- 2. Feldspar [Option ID = 8243]
- 3. Feldspathoid [Option ID = 8244]
- 4. Amphibole [Option ID = 8245]

# Correct Answer :-

• Feldspar [Option ID = 8243]

# 23) Choose the correct option from the following: [Question ID = 2063]

- 1. Parallelism of internal and external schistosity implies syn-deformation growth of porphyroblast [Option ID = 8246]
- 2. Poikilitic texture is a metamorphic texture [Option ID = 8247]
- 3. Antiperthite is an exsolution texture [Option ID = 8248]
- 4. Granofels are associated with regional metamorphism [Option ID = 8249]

# Correct Answer :-

• Antiperthite is an exsolution texture [Option ID = 8248]

# 24) Which amongst the following is a 1:1 phyllosilicate?

# [Question ID = 2064]

1. Illite

[Option ID = 8250]

2. Kaolinite

[Option ID = 8251]

3. Montmorillonite

[Option ID = 8252]

4. Chlorite

[Option ID = 8253]



# Correct Answer :- Kaolinite [Option ID = 8251] 25) Closest packing of equal sized spheres of cations and anions will lead to coordination number of [Question ID = 2065] 1. 6 [Option ID = 8254] 2. 12 [Option ID = 8255] 3. 4 [Option ID = 8256] 4. 8 [Option ID = 8257] Correct Answer :-12 [Option ID = 8255] Monticellite is a [Question ID = 2066] 1. Single chain silicate [Option ID = 8258] 2. Nesosilicate [Option ID = 8259] 3. Double chain silicate [Option ID = 8260] 4. Tectosilicate [Option ID = 8261] Correct Answer :- Nesosilicate [Option ID = 8259] 27) Khetri copper belt is part of [Question ID = 2067] South Delhi Fold Belt [Option ID = 8262] 2. Aravalli Supergroup [Option ID = 8263] 3. North Delhi Fold Belt [Option ID = 8264] 4. Marwar Group [Option ID = 8265] Correct Answer :- Aravalli Supergroup [Option ID = 8263] 28) Abukama facies series is a [Question ID = 2068] 1. High P-low T series [Option ID = 8266] 2. Low P-high T series [Option ID = 8267] 3. Intermdiate PT series [Option ID = 8268] 4. None of these [Option ID = 8269] Correct Answer :-· Low P-high T series [Option ID = 8267] 29) Reaction "cummingtonite = orthopyroxene+quartz+H2O" indicates that [Question ID = 2069] 1. It is a hydration reaction [Option ID = 8270] 2. It is an ion-exchange reaction [Option ID = 8271] 3. Cummingtonite has high alumina content [Option ID = 8272] 4. Cummingtonite contains low to no alumina [Option ID = 8273] Correct Answer :- Cummingtonite contains low to no alumina [Option ID = 8273] 30) When all four oxygens in silicon tetrahedral are shared, the structure is known as [Question ID = 2070] 1. Chain silicates [Option ID = 8274] 2. Ring silicates [Option ID = 8275] 3. Framework silicates [Option ID = 8276] 4. Cyclosilicates [Option ID = 8277]

Correct Answer :-

Framework silicates [Option ID = 8276]

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# 31) In AFM diagrams, pseudocomponent A is calculated as $A=Al_2O_3-3K_2O$ . This is because minerals in this diagram are projected from

#### [Question ID = 2071]

- 1. Muscovite [Option ID = 8278]
- 2. Quartz [Option ID = 8279]
- 3. Biotite [Option ID = 8280]
- 4. K feldspar [Option ID = 8281]

#### Correct Answer :-

Muscovite [Option ID = 8278]

### 32) The main reason for seasons is

# [Question ID = 2072]

- 1. The Sun gets hotter and colder [Option ID = 8282]
- 2. Variable positions of moon with respect to Sun and Earth [Option ID = 8283]
- 3. The tilt of the Earth's axis [Option ID = 8284]
- 4. The variable distance between Sun and Earth [Option ID = 8285]

#### Correct Answer :-

• The tilt of the Earth's axis [Option ID = 8284]

#### 33) Knob and kettle topography forms when

### [Question ID = 2073]

- 1. Blocks of ice get buried by till, and then melt. [Option ID = 8286]
- 2. The glacier flows over sediment and molds it into streamlined hills. [Option ID = 8287]
- 3. Ice plucks chunks off of bedrock and leaves an indentation. [Option ID = 8288]
- 4. Rocks embedded in the base of the glacier gouge out deep depressions into bedrock [Option ID = 8289]

#### Correct Answer :-

• Blocks of ice get buried by till, and then melt. [Option ID = 8286]

# 34) The sluggish wind system in the equatorial areas is known as?

#### [Question ID = 2074]

- 1. Westerlies [Option ID = 8290]
- 2. Trades [Option ID = 8291]
- 3. Doldrums [Option ID = 8292]
- 4. Monsoon [Option ID = 8293]

# Correct Answer :-

Doldrums [Option ID = 8292]

# 35) The Digboi Oil Field is associated with rocks of

# [Question ID = 2077]

- 1. Eocene age [Option ID = 8300]
- 2. Miocene age [Option ID = 8302]
- 3. Pleistocene age [Option ID = 8303]
- 4. Pliocene age [Option ID = 8305]

# Correct Answer :-

• Miocene age [Option ID = 8302]

# 36) The Ninety East Ridge is present in which of the following oceans

# [Question ID = 2078]

- 1. Atlantic [Option ID = 8306]
- 2. Indian [Option ID = 8308]
- Pacific [Option ID = 8310]
   Arctic [Option ID = 8311]

# Correct Answer :-

• Indian [Option ID = 8308]

# 37) What are ophiolite suites?

# [Question ID = 2080]

- 1. Fragments of oceanic lithosphere emplaced on a continent [Option ID = 8314]
- Groups of seafloor magnetic anomalies [Option ID = 8315]
- 3. Wedge-shaped packages of sediments that form at passive margins [Option ID = 8317]
- 4. Rocks with ophitic texture [Option ID = 8318]

# Correct Answer :-

• Fragments of oceanic lithosphere emplaced on a continent [Option ID = 8314]

# 38) Which of the following deep sea sediments is often part of ophiolite suites

[Question ID = 2083]



1. Nanno-Foram Ooze [Option ID = 8322] 2. Globigerina ooze [Option ID = 8325] 3. Radiolarian chert [Option ID = 8327] 4. Pteropod ooze [Option ID = 8329] Correct Answer :-· Radiolarian chert [Option ID = 8327] 39) When does the Intertropical convergence Zone reach its most northerly location? [Question ID = 2084] 1. July [Option ID = 8330] 2. April [Option ID = 8332] 3. January [Option ID = 8334] 4. October [Option ID = 8336] Correct Answer :- July [Option ID = 8330] 40) Ocean acidification is gradually increasing with time as a result of [Question ID = 2087] 1. Photosynthesis [Option ID = 8340] 2. Increasing pollution [Option ID = 8343] 3. Upwelling [Option ID = 8344] 4. Increasing atmospheric CO<sub>2</sub> concentrations [Option ID = 8345] Correct Answer :- Increasing atmospheric CO<sub>2</sub> concentrations [Option ID = 8345] 41) The Ice-rafted debris-rich layers in the North Atlantic during Quaternary are referred to [Question ID = 2088] 1. ENSO events [Option ID = 8346] 2. Monsoonal events [Option ID = 8347] 3. Heinrich events [Option ID = 8349] 4. Interstadial events [Option ID = 8351] Correct Answer :- Heinrich events [Option ID = 8349] 42) Because of difference in density, Icebergs float for a distance of several kilometers in sea before its gets completely melted. The difference in density between ice formed of pure water and sea water is [Question ID = 2090] 1. 0.005 gm/cc [Option ID = 8354] 2. 0.105 gm/cc [Option ID = 8356] 3. 01.05 gm/cc [Option ID = 8358] 4. 0.015 gm/cc [Option ID = 8359] Correct Answer :- 0.105 gm/cc [Option ID = 8356]



#### [Question ID = 2093]

- 1. A sigmoidal curve [Option ID = 8363]
- 2. A low gradient straight line [Option ID = 8365]
- 3. A high-gradient straight line [Option ID = 8367]
- 4. A bell-shaped curve [Option ID = 8368]

#### Correct Answer :-

A high-gradient straight line [Option ID = 8367]

# 44) Sandy coastline with an extensive area of beach directly adjacent to the coastal plain is termed a [Question ID = 2094]

- 1. Shoreface [Option ID = 8370]
- 2. Chenier [Option ID = 8371]
- 3. Foreshore [Option ID = 8372]
- 4. Strand plain [Option ID = 8374]

#### Correct Answer :-

Strand plain [Option ID = 8374]

# 45) We get botryoidal cement geometry in carbonate that has gone through [Question ID = 2096]

- 1. Vadose diagenesis [Option ID = 8378]
- 2. Deep burial diagenesis [Option ID = 8379]
- 3. Phreatic diagenesis [Option ID = 8380]
- 4. Sea floor diagenesis [Option ID = 8381]

#### Correct Answer :-

• Sea floor diagenesis [Option ID = 8381]

# 46) We get grain flows commonly in

#### [Question ID = 2097]

- 1. Moderately sorted granular sediments [Option ID = 8382]
- 2. Ill sorted granular sediments [Option ID = 8383]
- 3. Well sorted granular sediments [Option ID = 8384]
- Clayey sediments [Option ID = 8385]

#### Correct Answer :-

• Well sorted granular sediments [Option ID = 8384]

# 47) If 'F' represents direction of Earth's magnetic field at any station, the local magnetic meridian at that station will be [Question ID = 2098]

- 1. A plane assuming an angle between 'F' and its horizontal projection 'H' [Option ID = 8386]
- 2. A vertical plane passing through 'F' and its horizontal projection 'H' [Option ID = 8387]
- 3. A plane that holds 'F' [Option ID = 8388]
- 4. A plane that passes through 'F' and magnetic north of the Earth [Option ID = 8389]

# Correct Answer :-

• A vertical plane passing through 'F' and its horizontal projection 'H' [Option ID = 8387]

# 48) We call a flow 'in phase' flow when

# [Question ID = 2099]

1. Reynold number of flow is >2000

[Option ID = 8390]

2. Reynold number of flow is <2000

[Option ID = 8391]

3. Froud number of flow is <1

[Option ID = 8392]

4. Froud number of flow is >1

[Option ID = 8393]

# Correct Answer :-

Froud number of flow is >1

[Option ID = 8393]

# 49) We can expect forearc sandstones as [Question ID = 2100]

- 1. Quatrzose in nature [Option ID = 8394]
- 2. Quartzofeldspathic in nature [Option ID = 8395]
- 3. Quartzolithic in nature [Option ID = 8396]
- 4. Feldspathic in nature [Option ID = 8397]



# Correct Answer :- Quartzolithic in nature [Option ID = 8396] 50) In Jodhpur, Rajasthan exposures of Jodhpur Sandstones are found overlying the Malani rhyolite. The contact between the two can be best described as [Question ID = 2101] Nonconformity [Option ID = 8398] 2. Paraconformity [Option ID = 8399] 3. Disconformity [Option ID = 8400] 4. Angular unconformity [Option ID = 8401] Correct Answer :- Nonconformity [Option ID = 8398] 51) ----- are intrabed soft sediment deformation features [Question ID = 2102] Convolute lamination and overturned cross-stratification [Option ID = 8402] 2. Load cast and convolute lamination [Option ID = 8403] 3. Flame structure and overturned cross-stratification [Option ID = 8404] 4. Load cast and Flame structure [Option ID = 8405] Correct Answer :- Convolute lamination and overturned cross-stratification [Option ID = 8402] 52) When streams appear to be far too small with respect to their valley, they are called as [Question ID = 2103] 1. Paleochannel [Option ID = 8406] 2. Inland stream [Option ID = 8407] 3. Misfit stream [Option ID = 8408] 4. Seasonal stream [Option ID = 8409] Correct Answer :- Misfit stream [Option ID = 8408] 53) Fracturing of the ground by thermal contraction at sub-freezing temperature is called as [Question ID = 2104] 1. Fracking [Option ID = 8410] 2. Desiccation cracking [Option ID = 8411] 3. Frost cracking [Option ID = 8412] Dilation cracking [Option ID = 8413] Correct Answer :- Frost cracking [Option ID = 8412] 54) Which of the following features could help you identify the presence of glaciers in a region in the past? [Question ID = 2105] Chatter marks [Option ID = 8414] 2. Terminal moraine [Option ID = 8415] 3. Drumlins [Option ID = 8416] 4. All of these [Option ID = 8417] Correct Answer :- All of these [Option ID = 8417] 55) Which of the following statements is true? [Question ID = 2106] 1. Sand has higher porosity than clay

[Option ID = 8418]

2. Mud has higher porosity than sand

[Option ID = 8419]

3. Mud has higher permeability than sand

[Option ID = 8420]

4. None of these



[Option ID = 8421] Correct Answer :-· Mud has higher permeability than sand [Option ID = 8420] 56) The increase in velocity leads to a drop in pressure above the grain and is known as the [Question ID = 2107] 1. Bernoulli effect [Option ID = 8422] 2. Stokes effect [Option ID = 8423] 3. Chezy's effect [Option ID = 8424] 4. Mannings effect [Option ID = 8425] Correct Answer :- Bernoulli effect [Option ID = 8422] 57) Darcy law states that [Question ID = 2108] 1. Velocity is inversely proportional to hydraulic gradient [Option ID = 8426] 2. Velocity is directly proportional to hydraulic gradient [Option ID = 8427] 3. Velocity is not related to the hydraulic gradient [Option ID = 8428] 4. Velocity is proportional to specific yield [Option ID = 8429] Correct Answer :- Velocity is directly proportional to hydraulic gradient [Option ID = 8427] 58) In which environment will you find maximum soil thickness? [Question ID = 2109] 1. Temperate [Option ID = 8430] 2. Semi-arid [Option ID = 8431] 3. Tropical [Option ID = 8432] 4. None of these [Option ID = 8433] Correct Answer :- Tropical [Option ID = 8432] 59) UTM in GIS stands for [Question ID = 2110] 1. Universal Transverse Mercator [Option ID = 8434] 2. Unclassified Thematic Map [Option ID = 8435] 3. Universal Tasseled Map [Option ID = 8436] 4. None of these [Option ID = 8437] Correct Answer :- Universal Transverse Mercator [Option ID = 8434] 60) The dimension of Storativity is [Question ID = 2111] 1. LT-1 [Option ID = 8438] 2.  $L^2T^{-1}$  [Option ID = 8439] 3.  $L^3T^{-1}$  [Option ID = 8440] 4. Dimensionless [Option ID = 8441] Correct Answer :-Dimensionless [Option ID = 8441]

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# 61) Which of the following is an erosional glacial landscape?

#### [Question ID = 2112]

- 1. Kames [Option ID = 8442]
- 2. Moraines [Option ID = 8443]
- Esker [Option ID = 8444]
   Arête [Option ID = 8445]

#### Correct Answer :-

Arête [Option ID = 8445]

# 62) The Ediacaran fossils are characterized by

### [Question ID = 2113]

- 1. Colony of unicellular organism [Option ID = 8446]
- 2. Small Shelly fauna [Option ID = 8447]
- 3. Multi-cellular metazoans [Option ID = 8448]
- 4. Stromatolite colony [Option ID = 8449]

#### Correct Answer :-

• Multi-cellular metazoans [Option ID = 8448]

### 63) Bijli rhyolite is associated with

#### [Question ID = 2114]

- 1. Singhbhum craton [Option ID = 8450]
- 2. Bastar craton [Option ID = 8451]
- 3. Dharwar craton [Option ID = 8452]
- 4. Aravalli craton [Option ID = 8453]

#### Correct Answer :-

• Bastar craton [Option ID = 8451]

# 64) Best quality of Indian coking coal is produced from:

#### [Question ID = 2115]

- 1. Jharia coalfield [Option ID = 8454]
- 2. Bokaro coalfield [Option ID = 8455]
- 3. Raniganj coalfield [Option ID = 8456]
- 4. Jabalpur coalfield [Option ID = 8457]

# Correct Answer :-

• Raniganj coalfield [Option ID = 8456]

# 65) Graptolites disappeared at the end of:

# [Question ID = 2116]

- 1. Cambrian [Option ID = 8458]
- 2. Silurian [Option ID = 8459]
- 3. Ordovician [Option ID = 8460]
- 4. Carboniferous [Option ID = 8461]

# Correct Answer :-

• Silurian [Option ID = 8459]

# 66) Taphonomy is the science dealing with

# [Question ID = 2117]

- 1. Study of the conditions of burial of fossils [Option ID = 8462]
- 2. Reconstruction of paleoenvironment by means of fossils [Option ID = 8463]
- 3. Mode of preservation of fossils [Option ID = 8464]
- 4. Study of fossil spore and pollens [Option ID = 8465]

# Correct Answer :-

• Mode of preservation of fossils [Option ID = 8464]

# 67) Which of the following biostratigraphic zone shows time correlative plane? [Question ID = 2118]

- 1. Acme biozone [Option ID = 8466]
- 2. Interval biozone [Option ID = 8467]
- 3. Lineage biozone [Option ID = 8468]
- 4. Assemblage biozone [Option ID = 8469]

# Correct Answer :-

• Lineage biozone [Option ID = 8468]

# 68) A disconformity indicates

# [Question ID = 2119]

- 1. A rock unit that does not contain fossils [Option ID = 8470]
- 2. An erosional surface between igneous and metamorphic rocks [Option ID = 8471]
- 3. An erosional surface between different rock types [Option ID = 8472]



4. An erosional surface between horizontal sedimentary rocks [Option ID = 8473] Correct Answer :- An erosional surface between horizontal sedimentary rocks [Option ID = 8473] 69) First leaves and flowers appeared during [Question ID = 2120] 1. Early Cretaceous [Option ID = 8474] 2. Early Jurassic [Option ID = 8475] 3. Late Cretaceous [Option ID = 8476] 4. Late Triassic [Option ID = 8477] Correct Answer :- Late Cretaceous [Option ID = 8476] 70) Stratigraphic succession in Deccan trap is erected with the help of [Question ID = 2121] 1. Giant plagioclase laths in basalt [Option ID = 8478] Inter-trappean and bole beds [Option ID = 8479] 3. Magnetic reversal record in basalt [Option ID = 8480] 4. All of these [Option ID = 8481] Correct Answer :- All of these [Option ID = 8481] 71) An influent stream has [Question ID = 2122] 1. Water in the stream at higher elevation than water table elevation [Option ID = 8482] 2. Water in the stream at lower elevation than water table elevation [Option ID = 8483] 3. Water in the stream at equal elevation to the water table elevation [Option ID = 8484] 4. No water flows on either side [Option ID = 8485] Correct Answer :-• Water in the stream at higher elevation than water table elevation [Option ID = 8482] 72) The ~30 % of the sedimentary shell of Earth is marked by ........... [Question ID = 2123] 1. Shale [Option ID = 8486] 2. Sandstone [Option ID = 8487] 3. Conglomerate [Option ID = 8488] 4. Limestone [Option ID = 8489] Correct Answer :- Sandstone [Option ID = 8487] 73) The incipient stage weathering is marked by [Question ID = 2124] 1. Smectite-Vermiculite [Option ID = 8490] 2. Illite-Chlorite [Option ID = 8491] 3. Illite-Kaolinite [Option ID = 8492] 4. Kaolinite-chlorite [Option ID = 8493] Correct Answer :- Smectite-Vermiculite [Option ID = 8490]



- 1. Ripples [Option ID = 8494]
- 2. Dunes [Option ID = 8495]
- 3. Antidune [Option ID = 8496]
- 4. Ripple cross beds [Option ID = 8497]

#### Correct Answer :-

Antidune [Option ID = 8496]

# 75) Which of the following statement is related to the formation of polymictic conglomerate? [Question ID = 2126]

- 1. Many single types of clasts [Option ID = 8498]
- 2. Continuous recycling [Option ID = 8499]
- 3. Rapid erosion, transportation and deposition [Option ID = 8500]
- 4. Quartzose conglomerates [Option ID = 8501]

#### Correct Answer :-

· Rapid erosion, transportation and deposition [Option ID = 8500]

# 76) The lateral accretion in a meandering channel refers to [Question ID = 2127]

- 1. Overbank depositions, [Option ID = 8502]
- 2. Levees formation [Option ID = 8503]
- 3. Point bar formation [Option ID = 8504]
- 4. Formation of soils [Option ID = 8505]

#### Correct Answer :-

• Point bar formation [Option ID = 8504]

# 77) Which of the following plant fossil is found in Upper Gondwana? [Question ID = 2128]

- 1. Glossopteris [Option ID = 8506]
- 2. Schizoneura [Option ID = 8507]
- 3. Nilssonia [Option ID = 8508]
- 4. Vertebraria [Option ID = 8509]

#### Correct Answer :-

• Nilssonia [Option ID = 8508]

# 78) The Kosi alluvail fan is a: [Question ID = 2129]

- 1. Small arid alluvail fan [Option ID = 8510]
- 2. Large arid alluvail fan [Option ID = 8511]
- 3. Very large humid alluvail fan [Option ID = 8512]
- 4. Very small humid alluvail fan [Option ID = 8513]

# Correct Answer :-

• Very large humid alluvail fan [Option ID = 8512]

# 79) The youngest of the major thrust sheets across the Himalaya is

# [Question ID = 2130]

- 1. MBT [Option ID = 8514]
- 2. MCT [Option ID = 8515]
- 3. ITSZ [Option ID = 8516]
- 4. MFT [Option ID = 8517]

# Correct Answer :-

MFT [Option ID = 8517]

# 80) The plagioclase with An<sub>10</sub> to An<sub>30</sub> is known as

# [Question ID = 2131]

- 1. Albite [Option ID = 8518]
- 2. Oligoclase [Option ID = 8519]
- 3. Andesine [Option ID = 8520]
- 4. Anorthite [Option ID = 8521]

# Correct Answer :-

• Oligoclase [Option ID = 8519]

# 81) Which of the following is not a monoclinic pyroxene?

# [Question ID = 2132]

- 1. Diopside [Option ID = 8522]
- 2. Spodumene [Option ID = 8523]
- 3. Enstatite [Option ID = 8524]
- 4. Jadeite [Option ID = 8525]



# Correct Answer :-Enstatite [Option ID = 8524] 82) A catchment on the toposheet 44D/16 has an area of 16 cm<sup>2</sup>, this corresponds to ..... on land [Question ID = 2133] 1. 4 km<sup>2</sup> [Option ID = 8526] 2. 8 km<sup>2</sup> [Option ID = 8527] 12 km<sup>2</sup> [Option ID = 8528] 4. 16 km<sup>2</sup> [Option ID = 8529] Correct Answer :- 4 km<sup>2</sup> [Option ID = 8526] 83) The Toba ash after the large volcanic eruption in Sumatra occurred at [Question ID = 2134] 1. 10 ka [Option ID = 8530] 2. 25 ka [Option ID = 8531] 50 ka [Option ID = 8532] 4. 75 ka [Option ID = 8533] Correct Answer :- 75 ka [Option ID = 8533] 84) The youngest Stage on the geological time scale is defined by [Question ID = 2135] 1. Greenlandian [Option ID = 8534] 2. Meghalayan [Option ID = 8535] 3. Northgrippian [Option ID = 8536] 4. Calabrian [Option ID = 8537] Correct Answer :- Meghalayan [Option ID = 8535] 85) The Archaean-Proterozoic transition is marked at [Question ID = 2136] 1. 4000 Ma [Option ID = 8538] 2. 3000 Ma [Option ID = 8539] 3. 2500 Ma [Option ID = 8540] 4. 1000 Ma [Option ID = 8541] Correct Answer :- 2500 Ma [Option ID = 8540] 86) Permian- Triassic extinction occurred at about [Question ID = 2137] 1. 250 Ma [Option ID = 8542] 2. 350 Ma [Option ID = 8543] 3. 450 Ma [Option ID = 8544] 4. 200 Ma [Option ID = 8545] Correct Answer :- 250 Ma [Option ID = 8542] 87) The average depth of the oceans is about [Question ID = 2138] 1. 1.5 km [Option ID = 8546] 2. 2.5 km [Option ID = 8547] 3. 3.5 km [Option ID = 8548] 4. 4.5 km [Option ID = 8549] Correct Answer :- 3.5 km [Option ID = 8548] 88) Which of the following tectonic units separates the Vindhyan supergroup and the Archaean supracrustal in the north western India? [Question ID = 2139] 1. Main Central Thrust (MCT) [Option ID = 8550] 2. Himalayan Frontal Thrust (HFT) [Option ID = 8551] 3. Central India Tectonic Zone (CITZ) [Option ID = 8552] 4. Great Boundary Fault (GBF) [Option ID = 8553] Correct Answer :-Great Boundary Fault (GBF) [Option ID = 8553]

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# 89) Suket Shale of the Vindhyan Super Group belongs to [Question ID = 2140] 1. Rohtas Formation [Option ID = 8554] 2. Khenjua Formation [Option ID = 8555] 3. Porcellanite Formation [Option ID = 8556] 4. Deoland Formation [Option ID = 8557] Correct Answer :- Rohtas Formation [Option ID = 8554] 90) The Polarity chron C29R/C29N transition is related to [Question ID = 2141] 1. K-T Boundary [Option ID = 8558] 2. P-T Boundary [Option ID = 8559] 3. Jurassic-Cretaceous boundary [Option ID = 8560] 4. P-C boundary [Option ID = 8561] Correct Answer :- K-T Boundary [Option ID = 8558] 91) Which of the following is not related to Kimberlite? [Question ID = 2142] 1. Wajrakurur [Option ID = 8562] 2. Behradih [Option ID = 8563] 3. Majhgawan [Option ID = 8564] 4. Ambadonger [Option ID = 8565] Correct Answer :- Ambadonger [Option ID = 8565] 92) An aquifer bounded on top and bottom by impervious layers is: [Question ID = 2143] 1. Semiconfined aquifer [Option ID = 8566] 2. Unconfined aquifer [Option ID = 8567] 3. Confined aquifer [Option ID = 8568] 4. Perched [Option ID = 8569] Correct Answer :- Confined aquifer [Option ID = 8568] 93) The polymetallic nodules at the abyssal floor are dominated by [Question ID = 2144] 1. Mn-Fe [Option ID = 8570] 2. Cu-Ni [Option ID = 8571] 3. Pb-Zn [Option ID = 8572] 4. Co-Ni [Option ID = 8573] Correct Answer :- Mn-Fe [Option ID = 8570] 94) The average salinity of the oceans is about [Question ID = 2145] 1. 1.0% [Option ID = 8574] 2. 2.0% [Option ID = 8575] 3. 3.5% [Option ID = 8576] 4. 5.0% [Option ID = 8577] Correct Answer :-• 3.5% [Option ID = 8576] 95) Which of the following is true for the river water? [Question ID = 2146] 1. HCO<sub>3</sub> > SO<sub>4</sub> > Cl [Option ID = 8578] 2. HCO3= SO4 = Cl [Option ID = 8579] 3. HCO3 < SO4 < Cl

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[Option ID = 8580]

[Option ID = 8581]

4. Cl> HCO<sub>3</sub>> SO<sub>4</sub>

# Correct Answer :- HCO<sub>3</sub> > SO<sub>4</sub> > Cl [Option ID = 8578] 96) Which of the following is true for the ocean water? [Question ID = 2147] 1. Ca>Na>Mg [Option ID = 8582] 2. Na>Mg>Ca [Option ID = 8583] 3. Mg>Ca>Na [Option ID = 8584] Ca>Mg>Na [Option ID = 8585] Correct Answer :- Na>Mg>Ca [Option ID = 8583] 97) Calcite is a uniaxial (-ve) mineral, because for calcite [Question ID = 2148] 1. nE < nO [Option ID = 8586] 2. nE = nO[Option ID = 8587] 3. nE > nO [Option ID = 8588] 4. nE >> nO [Option ID = 8589] Correct Answer :- nE < nO</li> [Option ID = 8586] 98) Nicol prism is characterized by [Question ID = 2149] 1. Total reflection of extra-ordinary rays but transmission of ordinary ray [Option ID = 8590] 2. Total reflection of ordinary rays but transmission of extra- ordinary ray [Option ID = 8591] 3. Total reflection of both ordinary ray and the extra-ordinary ray [Option ID = 8592] 4. Transmission of both ordinary ray and the extra-ordinary ray [Option ID = 8593] Correct Answer :- Total reflection of ordinary rays but transmission of extra- ordinary ray [Option ID = 8591] 99) A fluvial system in general is defined by [Question ID = 2150] 1. Catchment [Option ID = 8594] 2. Transport [Option ID = 8595] 3. Deposition [Option ID = 8596] 4. Catchment + Transport + Deposition [Option ID = 8597] Correct Answer :-• Catchment + Transport + Deposition [Option ID = 8597] 100) The PETM event is defined by

# [Question ID = 2151]

- 1. 5°C to 6°C rise in temperature at 55 Ma [Option ID = 8598]
- 2.  $5^{\circ}$ C to  $6^{\circ}$ C cooling in temperature at 65 Ma [Option ID = 8599]
- 3. 15°C to 16 °C rise in temperature at 55 Ma [Option ID = 8600]
- 4. 15°C to 16°C cooling in temperature at 65 Ma [Option ID = 8601]

# Correct Answer :-

• 5°C to 6 °C rise in temperature at 55 Ma [Option ID = 8598]

