# 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 stress) should be vertical**

**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]**

1. 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]

**26) 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]**

1. 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+$H_2O$" 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]

**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]
3. Pacific [Option ID = 8310]
4. 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]
2. 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]

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**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]

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**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 $CO_2$ concentrations [Option ID = 8345]

**Correct Answer :-**

- Increasing atmospheric $CO_2$ concentrations [Option ID = 8345]

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**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]

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**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]

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**43) In cumulative percentage probability curve a well-sorted sandstone will plot as**

**[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]
4. 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]**

1. 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]**

1. 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]
4. 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]**

1. 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]

**61) Which of the following is an erosional glacial landscape?**
**[Question ID = 2112]**
1. Kames [Option ID = 8442]
2. Moraines [Option ID = 8443]
3. Esker [Option ID = 8444]
4. 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]
2. 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]

**74) Which of the following bedforms represents upstream migration?**

**[Question ID = 2125]**

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 $An_{10}$ to $An_{30}$ 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 $cm^2$, this corresponds to …… on land**
**[Question ID = 2133]**

1. 4 $km^2$ [Option ID = 8526]
2. 8 $km^2$ [Option ID = 8527]
3. 12 $km^2$ [Option ID = 8528]
4. 16 $km^2$ [Option ID = 8529]

**Correct Answer :-**

- 4 $km^2$ [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]
3. 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]

**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. $HCO_3 > SO_4 > Cl$

   [Option ID = 8578]
2. $HCO_3 = SO_4 = Cl$

   [Option ID = 8579]
3. $HCO3 < SO4 < Cl$

   [Option ID = 8580]
4. $Cl > HCO_3 > SO_4$

   [Option ID = 8581]

**Correct Answer :-**

- $HCO_3 > SO_4 > Cl$

  [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]
4. 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

  [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°C to 6 °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]