DU MPhil PhD in Geology

Topic:- DU_J19_MPHIL_GEO

1) Specific capacity of a tubewell is a functions of: [Question ID = 2252]

- 1. Tubewell discharge [Option ID = 9005]
- 2. All of the above [Option ID = 9008]
- 3. Formation loss (BQ) [Option ID = 9006]
- 4. well loss (CQ^2) [Option ID = 9007]

Correct Answer :-

All of the above [Option ID = 9008]

2) Distribution of isograds in Barrovian patterns can be considered to represent:

[Question ID = 2266]

- 1. Contact metamorphism [Option ID = 9061]
- 2. Regional metamorphism of burial type [Option ID = 9063]
- 3. Regional metamorphism of intermediate P series [Option ID = 9062]
- 4. Regional metamorphism of low P series [Option ID = 9064]

Correct Answer :-

- Regional metamorphism of intermediate P series [Option ID = 9062]
 - -----

3) The Pokharan boulder bed at the base of the Marwar supergroup is related to: [Question ID = 2271]

- 1. Glaciofluvial deposit [Option ID = 9083]
- 2. Alluvial fan deposit [Option ID = 9081]
- 3. Aeolian deposit [Option ID = 9084]
- 4. Submarine fan deposit [Option ID = 9082]

Correct Answer :-

- Glaciofluvial deposit [Option ID = 9083]
- _____

4) The behaviour of ordinary (OR) and extraordinary (ER) ray through a Nicol prism is defined by: [Question ID = 2282]

- 1. The OR is totally reflected but ER emerges at the end [Option ID = 9126]
- 2. The ER is totally reflected but OR emerges at the end [Option ID = 9125]
- 3. Both OR and ER are totally reflected [Option ID = 9127]
- 4. Both OR and ER are transmitted [Option ID = 9128]

Correct Answer :-

• The OR is totally reflected but ER emerges at the end [Option ID = 9126]

Evaluate the two statements and choose the correct option from: Statement I- In crystallization from a magma, early crystal will be composed of magnesian olivines, pyroxenes with a high Mg/Fe+2 ratio and calcic plagioclases Statement II- Successive liquids formed from basaltic magma will be progressively enriched in (Na+K)/Ca, in Fe+2/Mg and in (Na+K)/Fe+2 [Question ID = 2263] 1. Statement I is correct and II incorrect [Option ID = 9049] Statement II is correct and I incorrect [Option ID = 9050] Statement I and II are incorrect [Option ID = 9052] 3. 4. Statement I and II are correct [Option ID = 9051] **Correct Answer :-**Statement I and II are correct [Option ID = 9051] 6) Which amongst the following represents crystal form of two non-parallel faces related by a twofold rotation? [Question ID = 2264] 1. Sphenoid [Option ID = 9056] 2. Pinacoid [Option ID = 9054] 3. Dome [Option ID = 9055] 4. Pedion [Option ID = 9053] **Correct Answer :-** Sphenoid [Option ID = 9056] 7) Maximum separation of the reflectance value of vegetation, soil, and water is seen in: [Question ID = 2268] 1. Red band [Option ID = 9071] 2. Blue band [Option ID = 9069] 3. Green band [Option ID = 9070] 4. Infrared band [Option ID = 9072] **Correct Answer :-** Infrared band [Option ID = 9072] 8) If competent layers of different thickness are encased close to each other in a relatively incompetent material, which type of folds is most likely to be produced by layer-parallel shortening? [Question ID = 2247] 1. harmonic folds [Option ID = 8985] polyharmonic folds [Option ID = 8987] 2. disharmonic folds [Option ID = 8986] 4. no folding of layers. [Option ID = 8988] **Correct Answer :**harmonic folds [Option ID = 8985] 9) The Cumbum Formation of the Cuddapah Supergroup is characterized by: [Question ID = 2278]

- 1. Shallow marine carbonates [Option ID = 9110]
- 2. Deep water facies with black shales [Option ID = 9109]
- 3. Fluvio-glacial sediments [Option ID = 9112]
- 4. Shallow water clastics [Option ID = 9111]

 (0) Saurischian dinosaurs are distinguished from ornithischian dinosaurs in h Question ID = 2260] Tetraradiate pelvis [Option ID = 9037] Triradiate pelvis [Option ID = 9038] Locomotion [Option ID = 9039] None of the above [Option ID = 9040] Correct Answer :- Triradiate pelvis [Option ID = 9038] 11) Authigenic precipitation of K rich mica in shallow marine sediments durin edimentation rate refers to: [Question ID = 2277] 1. Rapid fall of sea level [Option ID = 9107] 2. Large storm [Option ID = 9108] 3. Flow expansion [Option ID = 9105] 4. Glaucony [Option ID = 9106] 2. Diversed Answer :- Glaucony [Option ID = 9106] 2. In symmetry operations reflection in a point, reflection in a line and reflection erepresented respectively as: [Question ID = 9057] 3. Reversal, inversion and mirror reflection [Option ID = 9057] 3. Reversal, inversion and mirror reflection [Option ID = 9058] Correct Answer :- Inversion, reversal and mirror reflection [Option ID = 9058] Correct Answer :- Inversion, reversal and mirror reflection [Option ID = 9058] Correct Answer :- Inversion, reversal and mirror reflection [Option ID = 9058] Correct Answer :- Inversion, reversal and mirror reflection [Option ID = 9058] Correct Answer :- Inversion, reversal and mirror reflection [Option ID = 9058] Correct Answer :- Inversion, reversal and mirror reflection [Option ID = 9058] Correct Answer :- Inversion, reversal and mirror reflection [Option ID = 9058] Correct Answer :- Inversion, reversal and mirror reflection [Option ID = 9058] Correct Answer :- Inversion, reversal and mirror reflection [Option ID = 9058] Correct Answer :- Inversion, reversal and mirror reflection [Option ID = 9058] Correct Answer :- Inversion ID = 9016] A import [Option ID =	
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. impotent [Option ID = 9013] . overfit [Option ID = 9014]	
. overfit [Option ID = 9014]	
orrect Answer :-	
misfit [Option ID = 9016]	
4) As one moves away from MOR, the depth and age of the oceanic lithosphe ompensation: [Question ID = 2286]	• -
. Both depth and age decrease [Option ID = 9143]	redue to
. Depth decreases but age increases [Option ID = 9144]	redue to
 Depth increases but age remains same [Option ID = 9141] Both depth and age increase [Option ID = 9142] 	redue to

Correct Ans	wer :-
Both depth	and age increase [Option ID = 9142]
	bon isotopic composition of the paleosol carbonates with δ^{13} C values ranging from .1.3‰ indicate: [Question ID = 2292]
	e of C3 type of vegetation [Option ID = 9165] e of C4 type vegetation [Option ID = 9166]
3. Dominance	of a mixed vegetation [Option ID = 9168] ce of CAM vegetation [Option ID = 9167]
Correct Ansv	wer :-
Dominance	e of C3 type of vegetation [Option ID = 9165]
16) Stream	saltation is: [Question ID = 2253]
	of the total dissolved solids in a stream [Option ID = 9012]
	process in bed load [Option ID = 9011] ion of salty minerals by flowing water [Option ID = 9009]
	g of abrasion potholes in a stream bed [Option ID = 9010]
Correct Ans	-
• a jumping	process in bed load [Option ID = 9011]
17) The thru [Question ID	usting of the Lesser Himalayan rocks over the Sub-Himalayan rocks is defined by:) = 2290]
	ion ID = 9158]
2. ITSZ [Optio	-
	on ID = 9160] ion ID = 9159]
Correct Answ	ver :-
MBT [Opt	ion ID = 9159]
18) The last 2273]	4,200 years has been classified as the distinct age of our planet is: [Question ID =
1. Northgrippi	an [Option ID = 9091]
	lian [Option ID = 9089]
_	Detion ID = 9092]
	n [Option ID = 9090]
Correct Ans	
• megnalayal	n [Option ID = 9090]
upland divid the stream n	n is characterized by the following: few lakes or swamps, well-developed floodplains es with even slopes and with rounded-to-knife-edged summits within easy view of nargin. William Morrison Davis would have gazed upon this region and classified it n ID = 2255]
, -	ption ID = 9019]
2. old age [Op	otion ID = 9020]

- old age [Option ID = 9020]
 adolescent [Option ID = 9017]
- 4. mature [Option ID = 9018]

Correct Answer :-

• old age [Option ID = 9020]

20) Mesozoic reefs are formed primarily by [Question ID = 2262]

- 1. Sponges [Option ID = 9045]
- 2. Rugose corals [Option ID = 9047]
- 3. Scleractinian corals [Option ID = 9048]
- 4. Archaeocyathids [Option ID = 9046]

Correct Answer :-

• Scleractinian corals [Option ID = 9048]

21) The kerogen consisting of woody terrestrial source material that typically generates gas is: [Question ID = 2272]

- 1. Type-I [Option ID = 9085]
- 2. Type-III [Option ID = 9087]
- 3. Type-IV [Option ID = 9088]
- 4. Type-II [Option ID = 9086]

Correct Answer :-

• Type-III [Option ID = 9087]

22) The braided channel is defined by: [Question ID = 2289]

- 1. Low width/depth ratio, steep slope, low bed load, low sinuosity [Option ID = 9155]
- 2. High width/depth ratio, gentle slope, high bed load, high sinuosity [Option ID = 9156]
- 3. Low width/depth ration, gentle slope, low bed load, high sinuosity [Option ID = 9154]
- 4. High width/depth ratio, steep slope, high bed load, low sinuosity [Option ID = 9153]

Correct Answer :-

- High width/depth ratio, steep slope, high bed load, low sinuosity [Option ID = 9153]
- _____

23) During the last glacial maxima (LGM) the global sea level waslower than it is today: [Question ID = 2279]

- 1. 400 m [Option ID = 9113]
- 2. 100 m [Option ID = 9114]
- 3. 300 m [Option ID = 9115]
- 4. 200 m [Option ID = 9116]

Correct Answer :-

100 m [Option ID = 9114]

24) During groundwater pumping through a tubewell at high discharge, the drawdown observed inside the tubewell: [Question ID = 2251]

- 1. Is generally more then expected drawdown in the aquifer [Option ID = 9001]
- 2. Is generally same as expected drawdown in the aquifer [Option ID = 9003]
- 3. None of the above [Option ID = 9004]
- 4. Is generally less then expected drawdown in the aquifer [Option ID = 9002]

Correct Answer :-

• Is generally more then expected drawdown in the aquifer [Option ID = 9001]

120°C [Option ID = 9138]			
2. 15°C [Option ID = 9140]			
. 20°C [Option ID = 9137] 8.5°C [Option ID = 9139]			
Correct Answer :-			
• -20°C [Option ID = 9138]			
26) Well loss in pumping well leads to:	[Question ID = 2248]		
1. Full loss of drawdown [Option ID = 8991]			
2. Increase in drawdown [Option ID = 8989]			
 Decrease in drawdown [Option ID = 8990] Loss in recovery of pumping well [Option I 			
	u = 0992]		
Correct Answer :-			
• Increase in drawdown [Option ID = 8989]]		
27) A SOI toposheet 44D/11 has a streatkm on land: [Question ID = 2281]	am stretch measured as 5.5 cm, this corresponds to		
1. 5.75 km [Option ID = 9124]			
2. 3.75 km [Option ID = 9121]			
3. 4.75km [Option ID = 9122]			
4. 2.75 km [Option ID = 9123]			
Correct Answer :-			
• 2.75 km [Option ID = 9123]			
28) Paired terraces form when	of the river channel: [Question ID = 2270]		
1. none of the above [Option ID = 9080]			
2. vertical incision is more rapid than latera			
3. lateral migration is more rapid than vertic			
4. there is only lateral migration [Option ID	= 9079]		
Correct Answer :-			
vertical incision is more rapid than later	al migration [Option ID = 9078]		
29) Which of the following data gives m	naximum vertical accuracy? [Question ID = 2269]		
1. ASTER [Option ID = 9076]			
2. SRTM [Option ID = 9075]			
3. LiDAR [Option ID = 9073] 4. PADAR [Option ID = 9074]			
4. RADAR [Option ID = 9074]			
Correct Answer :-			
• SRTM [Option ID = 9075]			

2. -10°C [Option ID = 9161]

3. +20°C [Option ID = 9164]

4. -20°C [Option ID = 9163]

Correct Answer :-

-20°C [Option ID = 9163]

31) Estimation of Storativity using Theis equation for unsteady state radial flow to a tubewell in confined aquifer can be done using:

[Question ID = 2250]

- 1. Drawdown & time data of the observation well near pumping well [Option ID = 8997]
- 2. None of the above [Option ID = 9000]
- 3. Only after we estimate transmissivity value [Option ID = 8998]
- 4. Drawdown & time data of the observation well near pumping well and only after we estimate transmissivity value [Option ID = 8999]

Correct Answer :-

• Drawdown & time data of the observation well near pumping well and only after we estimate transmissivity value [Option ID = 8999]

32) The river type defined by multiple channels, large stable islands and dominance of suspension load is: [Question ID = 2275]

- 1. Meandering River [Option ID = 9098]
- 2. Anastomosing river [Option ID = 9099]
- 3. Braided River [Option ID = 9100]
- 4. Straight river [Option ID = 9097]

Correct Answer :-

• Anastomosing river [Option ID = 9099]

33) The sedimentary structures marked by mud drapes and bipolar cross stratification demarcate: [Question ID = 2276]

- 1. Deep water currents [Option ID = 9103]
- 2. Tidal current processes [Option ID = 9102]
- 3. Waves and storm processes [Option ID = 9101]
- 4. Fluvial processes [Option ID = 9104]

Correct Answer :-

- Tidal current processes [Option ID = 9102]
- 34) The sedimentary shell of Earth is marked by ~50% of [Question ID = 2288]
- 1. Limestone [Option ID = 9152]
- 2. Sandstone [Option ID = 9150]
- 3. Shale/mudrocks [Option ID = 9149]
- 4. Conglomerate [Option ID = 9151]

Correct Answer :-

Shale/mudrocks [Option ID = 9149]

35) Amount of the bed load in the sedimentary flux from all rivers to ocean is commonly:

[Question ID = 2284]

- 1. More than suspended load [Option ID = 9134]
- 2. <10 % of the suspended load [Option ID = 9135]
- 3. > 10% of the suspended load [Option ID = 9136]
- 4. Equal to suspended [Option ID = 9133]

Correct Answer :-

<10 % of the suspended load [Option ID = 9135]

36) In a thrust sequence, the first (earliest) thrust forms ahead and successively younger thrusts form in the hanging wall of the preceding thrusts. The sequence is called: [Question ID = 2246]

- 1. none of the above. [Option ID = 8984]
- 2. a break-back sequence [Option ID = 8982]
- 3. an irregular sequence [Option ID = 8983]
- 4. a piggyback sequence [Option ID = 8981]

Correct Answer :-

a break-back sequence [Option ID = 8982]

37) <u>Assertion (A)</u>: The amount and character of strain can be assessed with greater precision in deformed fossils than in inorganic structures

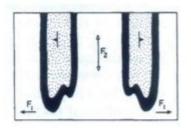
<u>Reasoning (R)</u>: Undeformed specimens of same species better preserve original Shape [Question ID = 2259]

- 1. A is false [Option ID = 9035]
- 2. R is false [Option ID = 9036]
- 3. R explains A [Option ID = 9033]
- 4. R does not explain A [Option ID = 9034]

Correct Answer :-

R explains A [Option ID = 9033]

38)



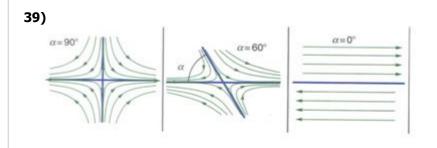
The above figure shows a 'mirror-image' type symmetrical fold interference pattern. Such an interference pattern is characteristic of which type of superposed fold geometry?

[Question ID = 2243]

1. Non-plane, cylindrical [Option ID = 8971]

- 2. Non-plane, non-cylindrical [Option ID = 8970]
- 3. Plane, non-cylindrical [Option ID = 8969]
- 4. Plane cylindrical [Option ID = 8972]

• Non-plane, non-cylindrical [Option ID = 8970]



The above figure shows the particle paths of flow characteristic of three different types of deformation. From left to right they are:

[Question ID = 2245]

- 1. Simple shear, General shear, Pure shear [Option ID = 8978]
- 2. Pure shear, General shear, Simple shear [Option ID = 8979]
- 3. Simple shear, Pure shear, General shear [Option ID = 8980]
- 4. Pure shear, Simple shear, General shear [Option ID = 8977]

Correct Answer :-

• Pure shear, General shear, Simple shear [Option ID = 8979]

40) The upstream geomorphic response of dam on a river profile is characterised by: [Question ID = 2274]

- 1. Flattening of the profile and deltaic deposition [Option ID = 9095]
- 2. Steepening of the profile and increased erosion [Option ID = 9093]
- 3. Steepening of the profile and increased deposition [Option ID = 9094]
- 4. Flattening of the profile and increased incision [Option ID = 9096]

Correct Answer :-

• Flattening of the profile and deltaic deposition [Option ID = 9095]

41) A polar wandering curve: [Question ID = 2256]

- 1. is a graph utilized to interpret the Richter Scale [Option ID = 9024]
- 2. shows that the continents wandered relative to generally-fixed pole positions [Option ID = 9023]
- 3. shows that the magnetic poles wandered relative to fixed continents [Option ID = 9021]
- 4. shows that the rotational poles wandered to fixed continents [Option ID = 9022]

Correct Answer :-

• shows that the magnetic poles wandered relative to fixed continents [Option ID = 9021]

42) Which of the following facies is absent in the low P series of metamorphism of mafic rocks? [Question ID = 2267]

- 1. Epidote hornfels facies [Option ID = 9068]
- 2. Epidote amphibolite facies [Option ID = 9067]
- 3. Greenschist facies [Option ID = 9065]
- 4. Sanidintie facies [Option ID = 9066]

Correct Answer :-

43) Which of the following oceanic processes accounts for most of the earth's sedimentary rock containing phosphate? [Question ID = 2258]

- 1. Subtropical convergence [Option ID = 9032]
- 2. Equatorial divergence [Option ID = 9031]
- 3. Coastal upwelling [Option ID = 9030]
- 4. Thermohaline circulation [Option ID = 9029]

Correct Answer :-

Coastal upwelling [Option ID = 9030]

44) Which of the following is considered as the largest extinction in Earth's history that killed 90-96% of the species? [Question ID = 2280]

- 1. Ordovician-Silurian [Option ID = 9117]
- 2. Late Devonian [Option ID = 9118]
- 3. Cretaceous-Paleogene [Option ID = 9120]
- 4. Permian-Triassic [Option ID = 9119]

Correct Answer :-

• Permian-Triassic [Option ID = 9119]

45) The Skolithos assemblage of Ichnofacies defined by vertical tube-like features refer to: [Question ID = 2283]

- 1. Sandy shore [Option ID = 9129]
- 2. Sub-littoral [Option ID = 9130]
- 3. Bathyal zone [Option ID = 9131]
- 4. Abyssal Zone [Option ID = 9132]

Correct Answer :-

• Sandy shore [Option ID = 9129]

[Question ID = 2261]

- 1. Analogous [Option ID = 9041]
- 2. Homologous [Option ID = 9042]
- 3. vestigial [Option ID = 9043]
- 4. None of the above [Option ID = 9044]

Correct Answer :-

• Homologous [Option ID = 9042]

47) A fold-mullion structure is typically the surface expression of hinges of

[Question ID = 2244]

- 1. cuspate-lobate folds [Option ID = 8974]
- 2. chevron folds [Option ID = 8975]
- 3. none of the above. [Option ID = 8976]
- 4. ptygmatic folds [Option ID = 8973]

Correct Answer :-

cuspate-lobate folds [Option ID = 8974]

48) Ekman transport occurs in which part of the ocean [Question ID = 2257]

- 1. Upper ocean [Option ID = 9025]
- 2. Meso pelagic layer [Option ID = 9026]
- 3. Ocean bottom [Option ID = 9028]
- 4. Bathy pelagic layer [Option ID = 9027]

Correct Answer :-

• Upper ocean [Option ID = 9025]

49) The significant water level fluctuation is generally:

[Question ID = 2249]

- 1. Both Inversely related to change of atmospheric pressure in confined aquifers and directly related to change of Tidal amplitude in unconfined and confined aquifers [Option ID = 8995]
- 2. Directly related to change of Tidal amplitude in unconfined and confined aquifers [Option ID = 8994]
- 3. Inversely related to change of atmospheric pressure in confined aquifers [Option ID = 8993]
- 4. None of the above [Option ID = 8996]

Correct Answer :-

• Both Inversely related to change of atmospheric pressure in confined aquifers and directly related to change of Tidal amplitude in unconfined and confined aquifers [Option ID = 8995]

50) The solar radiation/electromagnetic spectrum providesof all energy received by the Earth: [Question ID = 2287]

- 1. 80.98% [Option ID = 9147]
- 2. 99.98% [Option ID = 9148]
- 3. 10.98% [Option ID = 9145]
- 4. 50.98% [Option ID = 9146]

Correct Answer :-

• 99.98% [Option ID = 9148]