



11. Based on which criterion a fold is classed 'closed fold'?
- A) Direction of closing                      B) Vergence  
C) Limb thickness                              D) Inter-limb angle
12. Which of the following is not a way-up structure?
- A) Cross bedding                              B) Graded bedding  
C) Imbrication                                 D) Pillow lavas
13. Dendritic drainage pattern is characteristic of which one of the following?
- A) Parallel faults                              B) Eroded dome  
C) Horizontal sedimentary rocks D) River piracy
14. Which of these denotes a low-angle reverse fault?
- A) Drag                      B) Lag                      C) Thrust                      D) Rift
15. Which of the following is not a lineation?
- A) A sillimanite needle lying normal to the hinge of a fold in gneiss  
B) Rounded crystals of garnet seen arranged in a line in khondalite  
C) Pseudotachylite  
D) Slickenside
16. Along which of these structures Benioff zones are located?
- A) Constructive plate margins    B) Destructive plate margins  
C) Long transcurrent faults       D) Transform faults
17. Which of the following is an active continental margin?
- A) Western continental margin of India  
B) Eastern continental margin of India  
C) Western continental margin of South America  
D) Eastern continental margin of South America
18. Where is the LVZ (Low Velocity Zone) located?
- A) Between upper crust and lower crust  
B) Just below the lithosphere  
C) Coinciding the Moho  
D) Along the mantle-core boundary
19. Continental rift zones represent:
- A) Dormant destructive plate margin  
B) Incipient constructive plate margin  
C) A continental suture  
D) Scars of previous continental drift

20. What is the normal range of velocity of lithospheric plate motion?  
 A) 2-12 cm/year                      B) 10-40 cm/year  
 C) 40-80 cm/year                      D) 0.2 – 2.0 m /year
21. The San Andreas fault is a kind of:  
 A) Normal fault                      B) Reverse fault  
 C) Strike fault                      D) Transform fault
22. The boundary between Cenozoic and Mesozoic is around  
 A) 50 Ma                      B) 65 Ma                      C) 80 Ma                      D) 95Ma
23. The term Mississippian corresponds to:  
 A) Lower Carboniferous                      B) Upper Carboniferous  
 C) Lower Permian                      D) Upper Permian
24. Which of the following is the most distinct component of a Greenstone belt?  
 A) Fuchsite quartzite  
 B) At least one green or greenish looking mineral or stone  
 C) Metamorphosed mafic or ultramafic rocks  
 D) Pillow lavas
25. Which of the following is an example of a mobile belt?  
 A) Closepet Granite                      B) Java Sumatra arc  
 C) Western Ghats                      D) Eastern Ghats
26. Which stratigraphic principle states that ‘the individual beds are of the same age along an outcrop’?  
 A) Order of superposition                      B) Cross-cutting relationship  
 C) Original lateral continuity                      D) Faunal succession
27. Which of the following is based on radiometric data?  
 A) Magnetostratigraphy                      B) Lithostratigraphy  
 C) Chronostratigraphy                      D) Biostratigraphy
28. Which of the following is the oldest?  
 A) Cenomanian                      B) Maestrichian  
 C) Turonian                      D) Burdigalian
29. Which of the following is the correct arrangement in terms of geologic age?  
 A) Chengannur granite- Rajmahal traps - Deccan traps- Barren Island volcanics  
 B) Chengannur granite- Deccan traps- Barren Island volcanics- Rajmahal traps  
 C) Chengannur granite- Deccan traps- Rajmahal traps - Barren Island volcanics  
 D) Barren Island volcanics-Deccan traps-Chengannur granite- Rajmahal traps



















117. Acid drainage is often associated with:  
A) Volcanic eruption                      B) Acid rains  
C) Mining                                      D) Sea-level fall
118. Which Ministry regulates the Coastal Zone in India?  
A) Ministry of Steel and Mines  
B) Ministry of Fisheries  
C) Ministry of Earth sciences  
D) Ministry of Environment, Forest and Wildlife
119. Which is the primary agency for disaster management in India?  
A) NDMA                                      B) GSI  
C) ONGC                                      D) IMD
120. The phenomenon of eutrophication of lakes is caused by:  
A) Excessive plant and algal growth  
B) Decreased plant and algal growth  
C) Drying up of lakes  
D) Flooding of lakes.

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