



11. What is the term used to denote lines joining points of equal limb-dip in successive layers through the fold profile ?  
 A) Stratum contours                      B) Strike lines  
 C) Dip isogons                              D) Dip lines
  
12. Chocolate-tablet structure is a variety of:  
 A) Boudinage  
 B) Ductile shear  
 C) Primary sedimentary structure  
 D) Fold interference pattern
  
13. The SanAndreas fault is a kind of:  
 A) Dextral strike-slip                      B) Sinistral strike-slip  
 C) Thrust                                      D) Normal
  
14. Which of the following folds resembles kink bands?  
 A) Similar                                      B) Dissimilar  
 C) Concentric                                D) Chevron
  
15. The addition of an extensional component across a shear zone produces:  
 A) Transtension                              B) Transpression  
 C) Transcurrent                              D) Transform
  
16. What is the main process of generation of continental crust?  
 A) Magmatism at mid-ocean ridge  
 B) Collision at orogens  
 C) Accretion at convergent plate boundaries  
 D) Impact of extra-terrestrial objects
  
17. Which of the following fossil fuels occurs in solid form?  
 A) Coal bed methane                      B) Petroleum  
 C) Gas hydrate                                D) Natural gas
  
18. At what depth beneath an island arc can a subducting plate be encountered?  
 A) 100 km                      B) 200 km                      C) 300 km                      D) 400 km
  
19. Which of the following paleomagneticchrons coincides with the K-T boundary?  
 A) C 29 R                      B) C 33 R                      C) C 13 N                      D) C 24 N
  
20. On which type of plate boundary, Iceland is located?  
 A) Divergent                                      B) Convergent  
 C) Transform fault                              D) Collision
  
21. When did the Pangea brake-up take place?  
 A) Late Paleozoic                              B) Early Paleozoic  
 C) Late Proterozoic                              D) Early Proterozoic





45. Which of the following faces will be plotted close to the centre in a crystal stereogram?  
 A) 010                      B) 111                      C) 011                      D) 012
46. How many faces a pyritohedron has?  
 A) 6                              B) 12                              C) 14                              D) 16
47. What is the interfacial angle between two adjacent hexagonal prismatic faces?  
 A) 60 degrees                              B) 120 degrees  
 C) 180 degrees                              D) 240 degrees
48. In which crystal system zircon crystallizes?  
 A) Tetragonal                              B) Orthorhombic  
 C) Monoclinic                              D) Triclinic
49. What does a Becke-line test measure?  
 A) Optic sign                              B) Refractive index  
 C) Optic angle                              D) Retardation
50. What is the optic nature of quartz?  
 A) Uniaxial positive                              B) Uniaxial negative  
 C) Biaxial negative                              D) Biaxial positive
51. Which of the following does not affect the retardation of a mineral thin section?  
 A) Relief                              B) Thickness  
 C) Birefringence                              D) Orientation
52. Which of the following pyroxenes has the highest calcium content?  
 A) Augite                              B) Enstatite  
 C) Salite                              D) Clinoenstatite
53. Which of the following is **NOT** correct?  
 A) Zircon : high relief  
 B) Spinel : non pleochroic  
 C) Cordierite : pleochoric haloes  
 D) Tourmaline : uniaxial positive
54. Double refraction is taking place in:  
 A) Isotropic minerals only                              B) Anisotropic minerals only  
 C) Biaxial minerals only                              D) Uniaxial minerals only
55. Which of the following minerals has the highest specific gravity?  
 A) Magnetite                              B) Uraninite  
 C) Barite                              D) Native gold

56. What is the silicon : oxygen ratio in nesosilicates?  
 A) 1 : 2                      B) 1 : 3                      C) 1 : 4                      D) 2 : 7
57. How to name a pyroxene with Fs, En and Wo components of 40, 30 and 30 respectively?  
 A) Augite    B) Ferroaugite  
 C) Subcalciaugite                                      D) Pigeonite
58. Which of the following is **NOT** a pyroxene?  
 A) Enstatite    B) Ferrosilite  
 C) Wollastonite    D) Pargasite
59. What name to be used for a plagioclase with An-25 and Ab -75 ?  
 A) Andesine    B) Bytownite  
 C) Labradorite    D) Oligoclase
60. Which of the following crystallizes in the isometric system?  
 A) Haematite    B) Ilmenite  
 C) Rutile    D) Magnetite
61. Which of the following property is **NOT** affected by metamictization?  
 A) Refractive index    B) Colour  
 C) Brerengence    D) Dispersion
62. Which of the following minerals has the highest amount of titanium?  
 A) Ilmenite    B) Titanite  
 C) Rutile    D) Perovskite
63. Which of the following is stable at 700° C temperature and 7 kb pressure?  
 A) Andalusite    B) Sillimanite  
 C) Kyanite    D) Mullite
64. Which of the following is polymorphous with brookite?  
 A) Ilmenite    B) Rutile  
 C) Magnetite    D) Chromite
65. Which is the most predominant element in the Earth's crust?  
 A) Silicon    B) Oxygen  
 C) Aluminium    D) Iron
66. Which of the following is the most abundant REE in the earth's crust?  
 A) La    B) Ce    C) Eu    D) Yb
67. Which of the following is a chalcophile element?  
 A) Cr    B) Mn    C) Cd    D) Au









