



10. If we compare the mass of hydrogen in a star with the rate at which energy _____, we can estimate its potential life.
- A) is being emitted
B) be emitted
C) was emitted
D) will be emitted
11. In cricket, the two sets of wickets are
- A) 18 yards apart
B) 20 yards apart
C) 22 yards apart
D) 24 yards apart
12. Dr. Joon Lew of Korea, the recipient of international Gandhi Award is known for his service in the ?
- A) Eradication of Leprosy
B) Campaigning against AIDS
C) Against Drugs
D) Against Child Labour
13. The Bhakti movement was not aimed at
- A) Abolishing idol worship
B) Eradicating caste system
C) Popularizing Hinduism
D) Establishing a new religion
14. What is a scheduled bank ?
- A) A bank having a deposit of Rs. 100 crore
B) A bank included in the second schedule of RBI
C) A bank with more than 50 branches
D) None of these
15. Which among the following States has the highest number of arsenic affected people in the country ?
- A) Assam
B) Bihar
C) Jharkhand
D) West Bengal
16. If $2x + y = 17$; $y + 2z = 15$ and $x + y = 9$, then what is the value of $4x + 3y + z$?
- A) 41
B) 43
C) 45
D) 42
17. Rohit spends 40% of his salary on food, 20% on house rent, 10% on entertainment and 10% on conveyance. If his savings at the end of a month are Rs. 1500, then the his monthly salary is
- A) Rs. 6,000
B) Rs. 7,500
C) Rs. 8,000
D) Rs. 10,000



18. Simple interest on a certain amount is $\frac{9}{16}$ of the principal. If the number representing the rate of interest in percent and time in years be equal, then time, for which principal is lent out is
A) $5\frac{1}{2}$ years B) $6\frac{1}{2}$ years C) 7 years D) $7\frac{1}{2}$ years
19. Fresh watermelons contain 90% water by weight whereas dry watermelons contain 20% water by weight. What is the weight of dry watermelon obtained from 20 kgs of fresh watermelon ?
A) 2.4 kg B) 2 kg
C) 2.5 kg D) Cannot be determined
20. A, B and C together earn Rs. 300 per day, whereas A and C together earn Rs. 188 and B and C together earn Rs. 152. The daily earning of C is
A) Rs. 40 B) Rs. 68 C) Rs. 112 D) Rs. 150
21. $1307 \times 1307 = ?$
A) 1601249 B) 1607249 C) 1701249 D) 1708249
22. If green means red, red means yellow, yellow means blue, blue means orange and orange means green, what is the colour of clear sky ?
A) Blue B) Red C) Yellow D) Green
23. Lakshmi and Meena are Rohan's wives. Shalini is Meena's step-daughter. How is Lakshmi related to Shalini ?
A) Sister B) Mother-in-law C) Mother D) Step-mother
24. Statements :
- I. The government has allowed private airline companies in India to operate to overseas destinations.
II. The national air carrier has increased its flights to overseas destinations.
A) Statement I is the cause and statement II is its effect
B) Statement II is the cause and statement I is its effect
C) Both the statements I and II are independent causes
D) Both the statements I and II are effects of independent causes
25. Abduction is related to Kidnapping in the same way as Larceny is related to ?
A) Theft B) Crime C) Blackmail D) Sin



PART – B

26. Stream flowing in the direction opposite to the original consequent slope is known as
- A) Insequent
 - B) Subsequent
 - C) Resequent
 - D) Obsequent
27. Normal Faults are formed as a result of
- A) Tensional force
 - B) Compressional force
 - C) Vertical Movement
 - D) Horizontal Displacement
28. The term Isostasy describes
- A) The state of disruption
 - B) The state of uplift
 - C) The state of balance
 - D) The state of subduction
29. Part of the upper mantle is known as
- A) Asthenosphere
 - B) Mesosphere
 - C) Ozonosphere
 - D) Troposphere
30. Which one of the following is slow downhill movement of debris ?
- A) Landslide
 - B) Creep
 - C) Earthflow
 - D) Mudflow
31. Erosion by solution is termed as
- A) Evorsion
 - B) Cavitation
 - C) Abrasion
 - D) Corrosion
32. Which of the following landform is not formed by glacier ?
- A) Moraines
 - B) I shaped valley
 - C) Eskers
 - D) Drumlins
33. The alignment of Earth, Sun and Moon causes
- A) Spring tide
 - B) Back wash
 - C) Swash
 - D) Neap tide
34. The maximum extent of troposphere at the poles is
- A) 15 km
 - B) 30 km
 - C) 5 km
 - D) 10 km
35. Apart from CO₂ which other gas is greenhouse gas in the earth's atmosphere
- A) Neon
 - B) Helium
 - C) Ozone
 - D) Xenon



36. Which of the following is not a high cloud ?
A) Stratus
B) Cirrostratus
C) Cirrus
D) Cirrocumulus
37. Lines connecting places having the same barometric pressure
A) Isotherm
B) Isoheight
C) Isobar
D) Isohyet
38. What is the full form of ITCZ ?
A) Inter Tropical Central Zone
B) Inter Troposphere Central Zone
C) Inter Tropical Convergence Zone
D) Inter Troposphere Convergence Zone
39. Anemometer is used to measure
A) Wind Velocity
B) Wind Direction
C) Air Pressure
D) Humidity
40. Which state receives rainfall during NE monsoon ?
A) Maharashtra
B) Tamil Nadu
C) Rajasthan
D) Gujarat
41. Scientific study of soil is known as
A) Pedology
B) Pedelogy
C) Podology
D) Pedagogy
42. In which country Tundra soil is found ?
A) South Africa
B) Cambodia
C) Mexico
D) Canada
43. Which is the largest fresh water lake in the world by volume of water ?
A) Lake Michigan
B) Lake Baikal
C) Great Bear Lake
D) Lake Malawi
44. In which of the following island in India volcano erupted in February 2017 ?
A) Lakshadweep
B) Diu Island
C) Barren Island
D) St. Mary
45. Which state in India has largest area under tank irrigation ?
A) Andhra Pradesh
B) Rajasthan
C) Madhya Pradesh
D) Uttar Pradesh



46. Oldest oilfield of India
A) Bombay High
B) Karaikal
C) Digboi
D) Cambay
47. Jim Corbett National Park is located in which state ?
A) Uttar Pradesh
B) Assam
C) Orissa
D) Uttarakhand
48. Which of the following place receive highest annual rainfall in India ?
A) Neriamangalam
B) Mawsynram
C) Chinnakallar
D) Cherrapunji
49. What is the full form of EMR ?
A) Electro Magnetic Reaction
B) Electro Magnetic Radiation
C) Electro Metal Reaction
D) Electron Magnetic Radiation
50. Which of the following wave is used to sense thermal radiation ?
A) X-rays
B) Gama Ray
C) Infrared
D) Near Infrared
51. Which of the following is a geostationary satellite ?
A) NOAA
B) INSAT
C) SPOT
D) LANDSAT
52. GPS was first developed by which country ?
A) UK
B) Russia
C) US
D) Japan
53. Which of the following scale is used to prepare topographical sheet by survey of India ?
A) 1:255,000
B) 1:245,000
C) 1:220,000
D) 1:250,000
54. How many satellites were launched on 15 February 2017 by India using one rocket ?
A) 104
B) 105
C) 103
D) 102
55. How many satellites are there in GLONASS Satellite Constellation ?
A) 23
B) 24
C) 22
D) 25



56. Which of the following country has the highest population in the world ?
A) India
B) Bangladesh
C) China
D) Nepal
57. Who proposed the Centre place theory ?
A) Alfred Wegner
B) T. Thompson
C) Charles Darwin
D) W. Christaller
58. What is the percentage of urbanization in India according to 2011 census ?
A) 40.12%
B) 31.16%
C) 35.40%
D) 25.50%
59. What is the literacy level of India according to 2011 census ?
A) 74.4%
B) 70.0%
C) 78.2%
D) 68.3%
60. How many states in India are categorized as Empowered Action Group ?
A) Seven
B) Eight
C) Nine
D) Six
61. What was the cause of massive tsunami on the eastern coast on India during 2004 ?
A) Nepal Earthquake
B) Cyclone
C) Volcanic eruption in Tambora
D) Earthquake near Sumatra Coast
62. Which country has the highest CO₂ emission from consumption of energy according to 2011 ?
A) India
B) Germany
C) China
D) Brazil
63. Which of the following is an example of renewable energy ?
A) Solar Energy
B) Coal
C) Natural Gas
D) Petroleum
64. Which of the following affect the rate of weathering ?
A) the soil type and extent
B) the rock type
C) the climate
D) all of these affect weathering rates



65. What is the age of the earth ?
- A) 4500 Million Years
 - B) 3500 Million Years
 - C) 3750 Million Years
 - D) 5575 Million Years
66. The branch of geology deals with the study of fossils is
- A) Palaeontology
 - B) Petrology
 - C) Petroleum geology
 - D) Geomorphology
67. Kuduremuk area known for _____deposit.
- A) Manganese ore
 - B) Iron ore
 - C) Gold
 - D) Diamond
68. Which gas makes up the majority of our atmosphere ?
- A) Carbon dioxide
 - B) Nitrogen
 - C) Oxygen
 - D) Water vapour
69. The processes of mechanical disintegration and chemical decomposition of rock is called as
- A) deposition
 - B) erosion
 - C) weathering
 - D) lithification
70. Soil is composed of
- A) organic matter produced by organisms
 - B) fragments of bedrock
 - C) clay minerals formed by the chemical alteration of bedrock
 - D) all of these



71. Mechanical weathering produces
- A) clay minerals
 - B) quartz
 - C) smaller particles
 - D) calcium carbonate
72. Most important raw material for power generation in India is
- A) Coal
 - B) Mineral oil
 - C) Natural gas
 - D) Uranium
73. K.G.F & Hutti areas are known for _____ deposits.
- A) Diamond
 - B) Iron
 - C) Gold
 - D) Aluminium
74. What is the fresh water percentage of the Earth ?
- A) 50%
 - B) 22%
 - C) 7%
 - D) 3%
75. Caves are most likely to form in which of the following rock types ?
- A) granite
 - B) limestone
 - C) basalt
 - D) sandstone
76. Which of the following is the ore of aluminium ?
- A) hematite
 - B) bauxite
 - C) kaolinite
 - D) montmorillonite



77. Fe^{3+} refers to
- A) iron metal
 - B) ferrous iron
 - C) ferric iron
 - D) hematite
78. Which of the following minerals found in a granite is not altered by chemical weathering ?
- A) biotite
 - B) feldspar
 - C) magnetite
 - D) quartz
79. Exfoliation domes form from
- A) frost wedging
 - B) hydrolysis
 - C) pressure release
 - D) root wedging
80. NDMA stands for
- A) Natural Disaster Manager Assembly
 - B) National Disaster Management Authority
 - C) National Department of Management Authority
 - D) National Disaster Manager Assembly
81. ISRO stands for
- A) Indian Scientific Research Organisation
 - B) Indian Systematic Resources Organisation
 - C) Indian Space Resource Organisation
 - D) Indian Space Research Organisation
82. DGPS stands for
- A) Differential Global Positioning System
 - B) Differential Global Programming Software
 - C) Differential Geographic Positioning Software
 - D) Differential Global Partitioning System



83. Compaction and cementation are two common processes associated with
A) erosion
B) transportation
C) sedimentation
D) lithification
84. Water that is good enough to drink is called _____ water.
A) Ground
B) Potable
C) Surface
D) Artesian
85. Human beings evolved during which geologic era ?
A) Cenozoic B) Mesozoic C) Paleozoic D) Precambrian
86. Chemical composition of quartz is
A) Al_2O_3 B) SiO_2 C) MnO D) Fe_2O_3
87. Which of the following is a metamorphic rock ?
A) Granite B) Sandstone C) Marble D) Limestone
88. Vesicular structure is commonly exhibited by
A) Basalt B) Gabbro C) Dunite D) Granite
89. Which of the following is hypersthene bearing quartzo-feldspathic metamorphic rock ?
A) Quartzite B) Marble C) Charnockite D) Migmatite
90. The largest zone of the Earth's interior by volume is the
A) Crust B) Mantle C) Outer core D) Inner core
91. The infiltration of water into the subsurface is the
A) Influent B) Effluent C) Discharge D) Recharge
92. Which of the following instrument is used to find the dip and strike of the strata ?
A) Goniometer B) Altimeter C) Clinometer D) Thermometer
93. Which of the following is an effect of global warming ?
A) Climate change B) Earthquake C) Tsunami D) Volcano



94. Petrology deals with study of
- A) Petroleum
 - B) Rocks
 - C) Minerals
 - D) Fossils
95. Which of the following is the oldest group of rocks ?
- A) Bhima group
 - B) Bababudan group
 - C) Chitradurga group
 - D) Sargur group
96. New sea floor is created at a
- A) Deep trench
 - B) Mid-oceanic ridge
 - C) Transform fault
 - D) Subduction zone
97. Theory of plate tectonics was proposed by
- A) Henry Hess
 - B) James Hutton
 - C) Alfred Wegner
 - D) Jeffery
98. Which of the following does NOT occur when two continental plates collide ?
- A) Uplift occurs and results in the formation of Mountain Belts
 - B) The crust becomes folded and deformed
 - C) The crust floating on the Earth's mantle develops a deep root
 - D) One plate sinks below the other
99. When liquid water freezes
- A) it does not change in volume
 - B) it expands by 5% in volume
 - C) it expands by 9% in volume
 - D) it decreases in volume
100. Carbon dioxide makes up about _____ of the Earth's atmosphere.
- A) 0.1%
 - B) 1%
 - C) 10%
 - D) 25%
-



SPACE FOR ROUGH WORK