

Q.1 - In the Earth's Atmosphere the Ozone Layer is found to be restrictive in:

- (A) Troposphere (B) Mesosphere ~~(C) Stratosphere~~ (D) Thermosphere

Q.2 - The oldest mineral found on the Earth's Crust is:

- (A) Quartz ~~(B) Zircon~~ (C) Tourmaline (D) Calcite

Q.3 - On the topographic map the closely spaced contour lines indicates:

- (A) Gentle slope ~~(B) Steep slope~~ (C) Undulating terrain (D) Hill top

Q.4 - Find out the correct statement:

- (A) Apparent Dip > True Dip ~~(B) Apparent Dip < True Dip~~
 (C) Apparent Dip = True Dip (D) All the above

Q.5 - The Index Fossils have:

- (A) Short range in Geological Time Scale
 (B) Wide Geographic distribution
 (C) Occurs abundantly
~~(D) All the above~~

Q.6 - In the earth's interior, the mantle portion is extended up to a depth of:

- (A) 3000 km (B) 2500 km (C) 3500 km ~~(D) 2900 km.~~

Q.7 - Which of the following crystal system have least number of Classes:

- (A) Cubic system (B) Hexagonal system
 (C) Tetragonal system ~~(D) Triclinic system~~

Q.8 - The 'Planetesimal Hypothesis' regarding the origin of earth was proposed by:

- (A) Kant and Laplace (B) Jeans and Jeffreys
~~(C) Chamberlin and Moulton~~ (D) Kuiper

Q.9 - The drainage pattern, develop due to sub-parallel streams aligned along the strike of the rock formations, is known as:

- (A) Dendritic ~~(B) Trellis~~ (C) Rectangular (D) Radial

Q.10 - The process of wear and tear of the exposed country rock is known as:

- (A) Deflation ~~(B) Attrition~~ (C) Abrasion (D) Crustation

Q.11 - In the geologic time scale, most of the period's name are for:

- (A) Catastrophic events
 (B) Fossil contents
 (C) Name of palaeontologist
~~(D) Geographic localities~~

Q.12 - The Coal deposits are mainly associated with:

- (A) Upper Vindhyan rocks
 (B) Upper Gondwana rocks
 (C) Lower Vindhyan rocks
~~(D) Lower Gondwana rocks~~

Q.13 - Find the incorrect pair among the following:

- (A) Nesosilicate - Olivine
 (B) ~~Cyclosilicate - Muscovite~~
 (C) Tectosilicate - Feldspar
 (D) Sorosilicate - Epidote

Q.14 - Which of the following Era is dominated by the presence of Dinosaurs:

- ~~(A) Mesozoic~~ (B) Cenozoic (C) Proterozoic (D) Palaeozoic

Q.15 - Which of the following is referred to as "Father of Geology":

- (A) Alfred Wegner
 (B) ~~James Hutton~~
 (C) John Butler
 (D) Green Smith

Q.16 - The colour of the powder of the mineral is known as:

- (A) Interference colour
 (B) Pleochroism
~~(C) Streak~~
 (D) Play of colour

Q.17 - which of the following minerals is not harder than the Orthoclase:

- (A) Topaz ~~(B) Baryte~~ (C) Garnet (D) Quartz

Q.18 - The mineral Olivine crystallizes in which of the following crystal system:

- (A) Tetragonal system
 (B) Hexagonal system
~~(C) Orthorhombic system~~
 (D) Monoclinic system

Q.19 - Glossopteris is the characteristic plant fossil, found to be associated with the rocks of:

- ~~(A) Lower Gondwana~~ (B) Middle Gondwana
 (C) Upper Gondwana (D) Inter-trappean Beds

Q.20 - Which of the following is not a silicate mineral:

- (A) Olivine (B) Microcline (C) Muscovite ~~(D) Rutile~~

Q.21 - What would be the strike of an inclined bed dipping at 55° in the N065° direction:

- (A) N255° (B) N115° ~~(C) N335°~~ (D) N245°

Q.22 - The instrument used to record the earthquake waves is known as:

- (A) Seismogram ~~(B) Seismograph~~
(C) Scintillometer (D) Seismometer

Q.23 - The chemical formula of Orthoclase mineral is:

- (A) $\text{Na Al Si}_3\text{O}_8$ ~~(B) $\text{K Al Si}_3\text{O}_8$~~
(C) $\text{Ca Al}_2\text{ Si}_2\text{O}_8$ (D) $\text{K Al Si}_2\text{O}_6$

Q.24 - Which among the following mineral exhibit parallel extinction under the microscope:

- (A) Quartz (B) Hornblende
(C) Diopside ~~(D) Biotite~~

Q.25 - Which among the following is not an example of Polymorphism:

- (A) Kyanite - Sillimanite - Andalusite
(B) Rutile - Anatas - Brookite
~~(C) Albite - Anorthite~~
(D) Quartz - Tridymite

Q.26 - The horizontal component of the apparent displacement of a bed, measured along the direction of dip of the fault, is known as:

- (A) Hade ~~(B) Heave~~ (C) Slip (D) Throw

Q.27 - The number of faces, present in the Rhombdodecahedron form of the Normal class of the Cubic system are:

- (A) 8 (B) 24 (C) 16 ~~(D) 12~~

Q.28 - Which among the following is not associated with Wind Deposits:

- (A) Sand Dunes (B) Inselbergs
~~(C) Drumlins~~ (D) Zeugens

Q.29 - The most abundant element in the Earth's Crust is:

- (A) Silicon [Si] ~~(B) Oxygen [O]~~
(C) Aluminium [Al] (D) Iron [Fe]

Q.30 - Which of the following drives the Earth's Internal Heat Engine:

- (A) Volcanoes (B) Solar Energy
(C) Ocean Tides ~~(D) Radioactivity~~

Q.31 - Which of the following igneous rock exhibit the Ophitic Texture:

- (A) Diorite (B) Granite ~~(C) Dolerite~~ (D) Andesite

Q.32 - Which among the following sedimentary rocks belongs to the Rudaceous group:

- (A) Clay stone ~~(B) Conglomerate~~ (C) Siltstone (D) Limestone

Q.33 - Which of the following rocks have suffered highest grade of metamorphism:

- (A) Green schist (B) Charnockite (c) Gneiss ~~(D) Eclogite~~

Q.34 - The process of descending the oceanic lithosphere into the mantle is known as:

- (A) Divergence (B) Contraction ~~(C) Subduction~~ (D) Accretion

Q.35 - Which of the following is not a volcanic rocks:

- (A) Basalt (B) Andesite (C) Komatiite ~~(D) Diorite~~

Q.36 - The mineral which commonly found in both Mafic and Felsic rocks is:

- (A) Quartz (B) Olivine
~~(C) Plagioclase feldspar~~ (D) Alkali feldspar

Q.37 - Which of the following process does not occur during the Diagenesis:

- (A) Compaction (B) Cementation
(B) Authigenesis ~~(D) Decomposition~~

Q.38 - Which of the following is not a metamorphic mineral:

- (A) Staurolite (B) Cordierite ~~(C) Glauconite~~ (D) Chlorite

Q.39 - Find out the un-foliated rock among the following:

- (A) Schist ~~(B) Hornfels~~ (C) Phyllites (D) Slate

Q.40 - India is the chief producer of which of the following ore:

- (A) Lead-Zinc (B) Copper ~~(C) Manganese~~ (D) Diamond

Q.41 - The Hirakud Dam of Odisha is a type of dam:

- (A) Gravity Dam (B) Arc Dam
(C) Concrete Dam ~~(D) Earth and Rock Fill Dam~~

Q.42 - Which of the following aquifer is also referred to as Water Table Aquifer:

- (A) Confined aquifer ~~(B) Unconfined aquifer~~
(C) Perched aquifer (D) Leaky aquifer

Q.43 - The hydrated ore of Iron is:

- ~~(A) Limonite~~ (B) Ilmenite (C) Magnetite (D) Hematite

Q.44 - India's largest Bauxite reserves are found in:

- (A) Chhattisgarh state ~~(B) Odisha state~~
(C) Andhra Pradesh state (D) Madhya Pradesh state

Q.45 - Find out the incorrect pair:

- (A) Cassiterite - Tin ore (B) Lepidolite - Lithium ore
~~(C) Rhodochrosite - Chromium ore~~ (D) Malachite - Copper ore

Q.46 - The famous Rampura Agucha deposit is known for:

- (A) Phosphorite (B) Marble
(C) Copper ore ~~(D) Lead and Zinc ore~~

Q.47 - The fundamental unit of Biostratigraphy is:

- (A) Chron ~~(B) Zone~~ (C) Period (D) Subzone

Q.48 - Which of the following is not an ore of Manganese:

- ~~(A) Siderite~~ (B) Pyrolusite (C) Rhodonite (D) Psilomelane

Q.49 - Which among the following is a monomineralic rock:

- (A) Syenite ~~(B) Dunite~~ (C) Gabbro (D) Tonalite

Q.50 - Transform Faults are:

- (A) Normal fault (B) Reverse fault
~~(C) Strike slip fault~~ (D) Dip slip fault