## **Geology Practice Questions and Answers**

1)	The study of the spatial and temporal relationships between bodies of rock is called		
	a.	Stratigraphy	
		Geomorphology	
		Petrology	
		Palaentology	
	Ans: Strat	igrapny	
2)		and absolute scales are included in the geological time scale.	
		Actual	
		Relativistic	
		Universal	
		geological	
	Ans: Rela	tivistic	
3)	Beds repre	esent a depositional event. They are1 cm in thickness	
	a.	Greater than	
	b.	Less than	
	c.	Exactly	
	d.	Non of the above	
	Ans: Gre	ater than	
4)	Laminatio	ons are similar to beds but are1 cm in thickness.	
		Greater than	
	b.	Less than	
		Exactly	
		Non of the above	
	Ans: Les		
5)	The idea t	hat most beds are laid down horizontally or nearly so is called the	
٥,		Principle of Original Continuity	
		Principle of Cross-Cutting Relationships	
		Principle of Original Horizontality	
		Principle of Superposition	
		nciple of Superposition	
_\			
6)		hat beds extend laterally in three dimensions until they thin to zero thickness is called the	
		Principle of Cross-Cutting Relationships	
		Principle of Original Horizontality	
		Principle of Original Continuity	
		Principle of Fossil Succession	
		Principle of Superposition	
	Ans: Pri	nciple of Original Continuity	
7)	The idea t	hat younger beds are deposited on top of older beds is called the	
•		Principle of Original Horizontality	
	b.	Principle of Cross-Cutting Relationships	
	c.		

c. Principle of Original Continuous.
 d. Principle of Superposition
 Ans: Principle of Superposition

8)	The idea t	hat a dike transecting bedding must be younger than the bedding it crosses is called the
		Principle of Original Horizontality
	b.	Principle of Original Continuity
		Principle of Fossil Succession
		Principle of Cross-Cutting Relationships
		Principle of Superposition
		ciple of Cross-Cutting Relationships
9)	The idea f	hat fossil content will change upward within a formation is called the
))		Principle of Cross-Cutting Relationships
		Principle of Original Horizontality
		Principle of Fossil Succession
		Principle of Original Continuity
		Principle of Superposition
		· · · ·
	Alls:Pilli	ciple of Fossil Succession
10)	The most	common rock-stratigraphic unit is the
	a.	Formation
	b.	Members
	c.	beds
	d.	group
	Ans: For	mation
11)	) Formation	as can be subdivided into
	a.	Formation
		Members
		Beds
		Group
	Ans: Mei	•
12)	Two or m	ore formations compose a
	a.	Beds
	b.	Group
	c.	Formation
	d.	Members
	Ans:Grou	ıp
13)	Which of	the following is not a time-stratigraphic unit?
	a.	eonothem
	b.	erathem
	c.	system
	d.	none of the above

Ans: none of the above

14) A system i	is subdivided into
a.	System
	Series
c.	Member
d.	group
Ans: Seri	es
15) The geolog	gic-time unit representing the longest interval of time is the
a.	Eon
b.	Era
c.	Period
d.	Age
Ans: Eon	
16) The geolog	gic-time unit representing the smallest interval of time is the
a.	Eon
b.	Era
c.	Period
d.	Age
Ans: Age	
	gic-time unit corresponding to the time that a system was deposited is the
	Eon
	Era
	Period
	Age
Ans: Peri	od
	gic-time unit corresponding to the time that a series was deposited is the
	Eon
	Era
	Period
	Epoch
Ans: Epo	ch
19) The geolog	gic-time unit corresponding to the time that an erathem was deposited is the
a.	Eon
	Era
	Period
u.	Epoch
Ans:Era	

20) The geol	ogic-time unit corresponding to the time that an eonothem was deposited is the
	<del></del> ·
	Eon
	Era
	Period
	Epoch
Ans: Eon	
21) What is t	he oldest age obtained from a mineral or rock on our planet?
a.	4.4 billion years
b.	3.5 billion years
	2.5 billion years
	1.0 billion years
Ans: 4.4	billion years
22) What is t	he age of the Earth?
	4.6 billion years
b.	4.4 billion years
c.	3.5 billion years
d.	2.5 billion years
Ans: 4.6	billion years
23) The first	animals with preservable hard parts first appear in the?
	Cambrian
b.	Mesozoic
c.	Tertiary
	Cenozoic
Ans: Can	nbrian
24) The dinos	aurs evolved and become dominant during the
a.	Permian
b.	Mesozoic
c.	Cenozoic
d.	Tertiary
Ans: Mes	sozoic
•	och do we live in?
	Miocene
b.	Holocene
c.	Oligocene
d.	Eocene
Ans: Hol	ocene
26) The princi	ple of uniformitarinism was proposed by
a.	Charles Darwin
b.	William Smith
c.	Charles Lyell

27) Who amongst the following proposed the Principle of Order of Superposition of strata?
a. Smith
b. Wagener
c. Steno
d. Lyell Ans:Steno
28) Which of the following represents the longest time period  a. Precambrian  b. Paleozoic  c. Mesozoic  d. Cenozoic  Ans: Precambrian
29) The Paleozoic does not include the  a. Ordovician  b. Jurassic  c. Mississippian  d. Permian  Ans: Jurassic
30) The was an era dominated by the dinosaurs  a. Precambrian b. Paleozoic c. Mesozoic d. Cenozoic Ans: Mesozoic
31) The boundaries between seem to coincide with major changes in the life forms present on Earth a. Precambrian b. systems c. eras d. epochs
Ans: eras
32) Radiometric age is often referred to as age. a. total b. absolute c. historic d. geologic  Ans: absolute

d. James Hutton

Ans: James Hutton

- 33) An undeformed sedimentary layer is \_\_\_\_\_ than the layer above and \_\_\_\_ than the layer below.

  a. younger ---younger
  b. younger --- older
  c. older --- younger
  d. older --- older
  Ans: older --- younger
- 34) Fossils are most common in which rock types?
  - a. Sedimentary
  - b. igneous
  - c. metamorphic
  - d. all of these commonly contain fossils

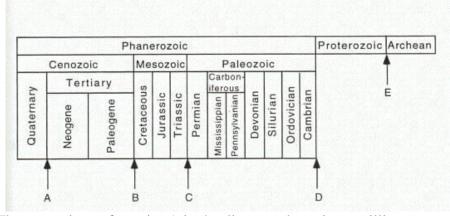
Ans: sedimentary

- 35) The study of faunal succession allows \_\_\_\_\_.
  - a. matching of similarly-aged rocks from different outcrops
  - b. absolute dating of fossil-bearing strata
  - c. recognition of the kings of the beasts in past times
  - d. the study of habits of extinct mammals

Ans: matching of similarly-aged rocks from different outcrops

- 36) A disconformity is \_\_\_\_\_.
  - a. a rock unit that does not contain fossils
  - b. an erosional surface between igneous and metamorphic rocks
  - c. rocks an erosional surface between horizontal sedimentary
  - d. an erosional surface between different rock types

Ans: rocks an erosional surface between horizontal sedimentary



- 37) The age estimate for point A in the diagram above is \_\_ million years
  - a. 0.16
  - b. 1.6
  - c. 16
  - d. 160

Ans: 1.6

- 38) The age estimate for point B in the diagram above is \_\_ million years
  - a. 35
  - b. 65
  - c. 245

d. Ans: 65	570
a. b. c.	stimate for point C in the diagram above is million years 35 65 245 570
a. b. c.	stimate for point D in the diagram above is million years 65 245 570 2500
a. b. c. d. Ans: 2500 42) Human be a. b. c.	2500 3000 4500  eings evolved during which geologic era? Cenozoic Mesozoic Paleozoic Precambrian
a. b. c. d. Ans: Cenozoi  44) Large repra. b. c.	became abundant during theEra?  Cenozoic  Mesozoic  Paleozoic  Precambrian  c  tiles became abundant during theEra?  Cenozoic  Mesozoic  Paleozoic  Paleozoic  Precambrian
Ans: Mesozoi	
45) According a. b.	g to the principle of Uniformitarianism:  Geologic processes we observe today have operated in the past.  Geologic process in the past operated at the same rate as they do today.

c. All of the planets formed from a uniform solar nebula.d. Early Earth was covered by a uniform magma ocean.

Ans: Geologic processes we observe today have operated in the past.

- 46) \_\_\_\_is called the "father" of geology.
  - a. John butler
  - b. Art smith
  - c. James Hutton
  - d. Alfred wegner

## Ans:James Hutton

- 47) Correlate and mark correct one:
  - 1. Era (i) System.
  - 2. Period. (ii) Group.
  - 3. Epoch (iii) Stage.
  - 4. Age. (iv) Series.
    - a. 1-i, 2-ii, 3-iii, 4-iv,
    - b. 1-iii, 2-i, 3-iv, 4-ii.
    - c. 1--ii, 2-i, 3-iv, 4-iii.
    - d. 1-iv, 2-iii, 3-I, 4-ii.

Ans: c

- 48) The branch of geology which deals with study of chronology of the earth's past events is called as
  - a. historical geology
  - b. structural geology
  - c. physical geology
  - d. none of the above

Ans: a

- 49) Eparchean unconformity separates:
  - a. Kurnool from Cuddapah
  - b. Archean from younger formations
  - c. Upper Gondwana from lower Gondwana
  - d. None of the above

Ans: Archean from younger formations

- 50) Which of the following is correct in ascending order for Geological time units?
  - a. Age, Period, Epoch, Era
  - b. Era, Period, Epoch, Age
  - c. Age, Epoch, Period, Era
  - d. Non of the above

Ans: Age, Epoch, Period, Era

- 51) Mark the correct stratigraphic succession of the Cuddapah system in ascending order?
  - a. krishna:nallamalai:cheyair:papaghni
  - b. nallamalai:cheyair: Krishna: papaghni
  - c. papaghni: cheyair: nallamalai: Krishna
  - d. cheyair: nallamalai:papaghani: Krishna

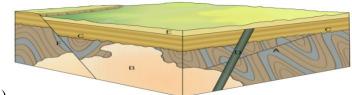
Ans: papaghni: cheyair: nallamalai: Krishna

- 52) Gondwana supergroup is economically important because they are rich in :
  - a. economic mineral
  - b. coal alone
  - c. iron ore alone
  - d. sandstone and clay

Ans: economic mineral

- 53) Where are the volcanic rocks formed?
  - a. Under the surface of earth
  - b. On the surface of earth
  - c. Inside the core
  - d. Between mantle

Ans: On the surface of earth



54)

The above figure indicates which principles of stratigraphy?

- a. Principle of Original Horizontality
- b. Principle of Original Continuity
- c. Principle of Fossil Succession
- d. Principle of Cross-Cutting Relationships
- e. Principle of Superposition

Ans: Principle of Cross-Cutting Relationships

- 55) Which one is chrono-stratigraphic unit?
  - a. member
  - b. Formation
  - c. group
  - d. Age

Ans: Age

- 56) Mark the correct stratigraphic succession of the gondwana system in ascending order?
  - a. Talchir:panchet:damuda:mahadeva:rajmahal:Jabalpur
  - b. Talchir: damuda: panchet: mahadeva: rajmahal:Jabalpur
  - c. Talchir: damuda: Jabalpur: panchet: mahadeva: rajmahal
  - d. panchet: mahadeva: rajmahal: Talchir: damuda: : Jabalpur

Ans: Talchir: damuda: panchet: mahadeva: rajmahal:Jabalpur

- 57) Mark the correct stratigraphic succession of the Cuddapah system in ascending order?
  - a. Papaghni: Cheriyar: Nallamalai: Krishna
  - b. Cheriyar Papaghni Nallamalai Nallamalai
  - c. Krishna Nallamalai Cheriyar Papaghni
  - d. Nallamalai Cheriyar Papaghni Krishna

Ans: Papaghni: Cheriyar: Nallamalai: Krishna

58) Mark the correct stratigraphic succession of the Vindhyan system in ascending order?
a. Semri: Rewa:Kaimur: Bhandar
<ul><li>b. Kaimur: Semri: Rewa:Bhandar</li><li>c. Semri:Kaimur:Rewa:Bhandar</li></ul>
d. Bhandar:Rewa:Kaimur:Semri
Ans : Semri:Kaimur:Rewa:Bhandar
59) Mixture of ore minerals and gangue minerals from which one or more metals can be extracted at a profit called?
a. Ores
b. Rocks
c. Metals
d. Soils
Ans: Ores
60) The metal content of an ore:
a. Ore minerals.
b. Gangue minerals
c. Tenor
d. Grade
Ans: Tenor
61) The useless/valueless minerals present in an ore are called
a. Non-metallic minerals
b. Metallic minerals
c. Gangue minerals
d. Flux minerals
Ans: Gangue minerals
62) Aggregates of minerals is called:
a. Rock
b. Ore
c. Tenor
d. Ore mineral
Ans: Rock
63) Rocks which are made up of one mineral are called as
a. monomineralic
b. polymineralic
c. both
d. none of these
Ans: monomineralic
64) The ore deposits which are formed simultaneously with the enclosing rock are called
a. Syngenetic
b. Epigenetic
c. Syncgenetic
d. Sinclogenetic

Ans: Syngenetic

65) Ph-Zn mineralls	eation in Zawar belt of Rajasthan occurs at:
	a. Mocha Magma.
	b. Barai Magma.
	c. Zawar Maia hills.
	d. All-the above.
<b>Ans:</b> All-the above	
66) Mn-ore of chen	nical grade should have :
a	. 95% of Mn.
b	o. 82-87% of Mn.
С	e. 74-78% of Mn.
d	l. 60-63% of Mn.
Ans: 82-87% of Mr	1
67) Noamundl Iron-	mines are situated in
a.	Madhya Pradesh.
b.	Maharashtra.
c.	Bihar.
d.	Orissa.
Ans: Bihar.	
68) How many type	es of rocks are there on the basis of time of formation?
a.	1
b.	2
c.	3
d.	4
Ans: 2	
69) Which mineral	is also used in chemical industry for manufacture of chromates?
a.	Iron
b.	Chromite
c.	Bauxite
d.	Copper
Ans: Chromite	
70) State where cop	per is not mined?
a.	Jammu and Kashmir
b.	Bihar
c.	Maharashtra
d.	Rajasthan
Ans: Jammu and Ka	ashmir
71) Where is the Sir	nghbhum copper belt located?
	Karnataka
	Madhya Pradesh
c.	
	Bihar

a. Sphaleriteb. Galena

72) Which is the most common ore of Lead?

Ans: Bihar

c. Chromite

Ans: Galena

- 73) Iron is commonly precipitated as:
  - a. Siderite
  - b. Limonite
  - c. Hematite
  - d. All of the above

Ans:All of the above

- 74) What is the chemical formula for illemnite?
  - a. FeSO4
  - b. Fe3O4
  - c. Au
  - d. FeTiO3

Ans: FeTiO3

- 75) What is the chemical formula for Chalcopyrite?
  - a. CuFeS2
  - b. Cu Co3 Cu(OH)2
  - c. CuS
  - d. Cu2S

Ans: CuFeS2

- 76) What is the chemical formula of Malachite?
  - a. Cu2O
  - b. CuCO3Cu(OH)2
  - c. Cu2S
  - d. CuS

Ans: CuCO3Cu(OH)2

- 77) What is the chemical formula of Tenorite?
  - e. Cu2O
  - f. CuCO3Cu(OH)2
  - g. Cu2S
  - h. CuO

Ans: CuO

- 78) What is the chemical formula of Chalcocite?
  - i. Cu2O
  - j. CuCO3Cu(OH)2
  - k. Cu2S
  - 1. CuS

Ans: Cu2S

79) Limonite is a	nn ore mineral of
	a. Iron
	b. Manganese
	c. Copper
Angilnon	d. Lead
Ans:Iron	
80) khetri coppe	r deposits are located in:
11,	a. Orissa
	b. Andhra pradesh
	c. Rajasthan
	d. Jharkhand
Ans: Rajasthan	
Q1) Molonikhono	Leannar danogita ara located in:
61) Maianjknanc	l copper deposits are located in: a.Orissa
	b.Andhra pradesh
	c.Madhya Pradesh
	d.Jharkhand
Ans :Madhya Pr	adesh
82) Which of the	e following metals is extracted from Cerussite?
	a. Iron
	b. Aluminium
	c. Lead d. Zinc
Ans:Lead	u. Zilic
Alis.Lead	
83) Which of the	e following metals is extracted from Hemimorphite?
	a. Iron
	b. Aluminium
	c. Lead
Ans: zinc	d. Zinc
Alis. Zilic	
84) The branch	of geology which deals with various aspects of rocks is
.,	
	a. Petrology
	b. Mineralogy
	c. Lithology
	d. Rockology
Ans:Petrology	
85) On the basis	of which content ignatus rocks are alassified as acid and basis rocks?
os) On the basis	of which content igneous rocks are classified as acid and basic rocks?
	a. Magnetite
	b. Hematite
	c. Bauxite

d. Silica

- 86) Aggregates of minerals is called:
  - a. Rock
  - b. Ore
  - c. Tenor
  - d. Ore mineral

Ans:Rock

- 91) Which mineral is used in paints, rubber textiles?
  - a. Asbestos
  - b. Barytes
  - c. Corundum
  - d. Quartz

Ans: Barytes

- 92) Which of the following is not a constituent of coal?
  - a. Hydrogen
  - b. Manganese
  - c. Nitrogen
  - d. Carbon

Ans: Manganese

- 91) Calorific value for coal (in kcal/kg) is
  - a. 1000-2500
  - b. 2500-4000
  - c. 4000 7000
  - d. 5000 8000

Ans: 4000 - 7000

- 92) Variety of coal having highest calorific value is
  - a. Steam coal
  - b. Lignite
  - c. Bituminous coal
  - d. Anthracite coal

Ans: Bituminous coal

93) What fossil fuel is in the image?



- a. Natural gas
- b. Coal
- c. Petroleum

Ans: Coal	
of petroleum a.	in the number of carbon and hydrogen atoms in hydrocarbon molecules, the density products?  Decreases  Increases
	Remain Same
d.	
Ans: increases	1
95) What is the fur	nction of petroleum coke?
a.	Lubrication
b.	In candles
	As fuel
	As solvent
Ans: As fuel	
96) What is the ha	rdest form of coal?
a.	Peat
b.	Bituminous
	Anthracite
d.	Sub- bituminous
Ans: Anthracite	
97) The amount o	of oil that may become available for use is called oil
a	~ ·
	. Reservoirs
C	
d	. Traps
Ans: Resources	•
98) Energy resour	rces derived from natural organic materials are called
a	geothermal energy sources
	. fossil fuels
c	. biomass
d	. all of these
Ans: Fossil Fuels	
99) All oil traps c	ontain
_	an impermeable layer
h	an anticline

d. steam

c. a faultd. all of these

Ans: an impermeable layer

- 100) Which of the following rock types would most likely be the best oil reservoir?
  - a. Granite
  - b. Shale
  - c. Sandstone
  - d. salt

Ans: Sandstone

- 101) Which product is formed after the process of carbonisation?
  - a. Charcoal
  - b. Coal tar
  - c. Coal gas
  - d. Coke

Ans: Coke

- 102) Which one is the main constituent of gaseous formations of petroleum?
  - a. Methane
  - b. Ethane
  - c. Propane
  - d. Butane

Ans:Methane

- 103) Dead organisms are transformed into petroleum and natural gas in
  - a. Absence of air
  - b. Presence of air
  - c. Presence of sun light
  - d. None of these

Ans: Absence of air

- 104) Useful substances obtained from petroleum and natural gases are called
  - a. Chemicals
  - b. Petroleum products
  - c. Petrochemicals
  - d. None of these

Ans: Petrochemicals

- 105) Which of the following is / are fossil fuels
  - a. Coal
  - b. Petroleum
  - c. Natural gas
  - d. All of these

Ans: All of these

- 106) According to the organic theory, from which kind of compound does the petroleum is formed?
  - a. Plant debris
  - b. Animal and vegetable debris
  - c. From the decomposers
  - d. From sunlight

Ans: Animal and vegetable debris

- 107) Digboi oil field is situated in: a. Assam b. Karnataka c. Delhi d. Sikkim Ans: Assam 108)
  - No of void spaces present in rock is called:
    - a. Porosity
    - b. Permeability
    - c. Effective porosity
    - d. Transmissibility

Ans: Porosity

- 109) Jharia is famous for which of the following mines?
  - a. Iron
  - b. Coal
  - c. Manganese
  - d. Copper

Ans: coal

- 110) Oil in Digboi is found in
  - a. Tipam formation
  - b. Sylhet formation
  - c. Jaintia formation
  - d. None of the above

Ans: Tipam formation

- Which one of the following is silicate mineral of copper? 111)
  - a. Azurite
  - b. Chrysocolla
  - c. Covellite
  - d. None of the above

Ans: Chrysocolla

- To which group illemnite belongs to? 112)
  - a. Silicate
  - b. Oxide
  - c. Carbonate
  - d. None of the above

Ans: Oxide

- Lignite in India is available at 113)
  - a. Talcher
  - b. Ranigang
  - c. Neyvelli
  - d. None of the above

Ans: Neyvelli

- 114) Battery grade manganese ore contains
  - a. 62-67% Mn
  - b. 72-77% Mn
  - c. 82-87% Mn
  - d. None of the above

Ans: 82-87% Mn

- 115) Magnetite associated with basic igneous rock is formed by
  - a. Magmatic process
  - b. Hydrothermal process
  - c. Mechanical concentration
  - d. None of the above

Ans: Magmatic process

- 116) Cr bearing mica mineral is called
  - a. Lepidolite
  - b. Fuchsite
  - c. Biotite
  - d. None of the above

Ans: Fuchsite

- 117) The largest cromite deposit of India is located at
  - a. Mayurbhanj
  - b. Biramitrapur
  - c. Sukinda
  - d. None of the above

Ans: Sukinda

- 118) Kudremukh in Karnataka is famous for
  - a. Iron ore deposit
  - b. Chromite deposit
  - c. Manganese deposit
  - d. None of the above

Ans: Iron ore deposit

- 119) A vertical dyke showing transverse veins is known as
  - a. Stockwork
  - b. Ladder vein
  - c. Saddle reef
  - d. None of the above

Ans: Ladder vein

- 120) Chromite and Nickel ores are generally associated with
  - a. Sedimentary rocks
  - b. Ultrabasic rocks
  - c. Acid igneous rocks
  - d. None of the above

Ans: Ultrabasic rocks

- 121) Workable deposits of chrysotile asbestos is found in
  - a. Karnataka
  - b. Jharkhand
  - c. Andhra Pradesh
  - d. None of the above

Ans: Andhra Pradesh

- 122) Which is the host rock for Panchpatmalli bauxite occurrence?
  - a. Granite
  - b. Khondalite
  - c. Basalt
  - d. None of the above

Ance	Khonda	lita
AIIS:	Knonda	me

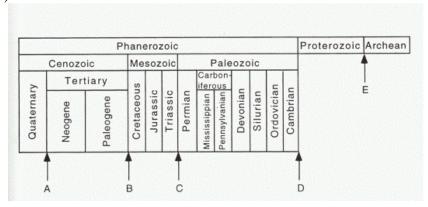
- 123) Nearest Iron ore deposit to Paradeep port is at
  - a. Daitari
  - b. Barbil
  - c. Badampahar
  - d. None of the above

Ans: Daitari

- 124) Gossan or cap rocks are good indicator of
  - a. Hydrothermal deposit
  - b. Placer deposit
  - c. Secondary supergene deposit
  - d. None of the above

Ans: Secondary supergene deposit

125)



- i) The age estimate for point A in the diagram above is \_\_\_\_\_ million years
  - a. 0.16
  - e. 1.6
  - f. 16
  - g. 160
- ii) The age estimate for point B in the diagram above is \_\_\_\_\_ million years
  - a. 35
  - b. 65
  - c. 245
  - d. 570
- iii) The age estimate for point C in the diagram above is \_\_\_\_\_ million years
  - a. 35
  - b. 45
  - c. 245
  - d. 570
- iv) The age estimate for point D in the diagram above is \_\_\_\_\_ million years
  - a. 65
  - b. 245
  - c. 570
  - d. 2500

v) The age estimate for	or point E in the diagram above is _	million years
a.	570	
b.	2500	
c.	3000	
d.	4500	
128) The channel sampling	ng is generally done	
a.	Parallel the ore body	
b.	Oblique the ore body	
c.	Across the ore body	
d.	At any direction in the ore body	

- 129) Coning and quartering is:
  - a. A mining method employed for the diamond mining
  - b. A mining method employed in unconsolidated ground
  - c. A method employed for obtaining a labratory sample from the field sample
  - d. A cutting and filling method employed in underground mining
- 130) When the material collected to represent a rock type, or a formation or an ore body in the quantitative sense then it is termed as :
  - a. Specimen
  - b. Sample
  - c. Both specimen and sample
  - d. Quantitative specimen