

Sr No.	MSc Applied Geology
1	Find the missing term in the following series: 3,15,?,63,99,143...?
Alt1	27
Alt2	35
Alt3	45
Alt4	56

2	Choose word from the given options which bears the same relationship to the third word, as the first two bears: Horse : Jockey :: Car : ?
Alt1	Mechanic
Alt2	Chauffeur
Alt3	Steering
Alt4	Brake

3	Food is to Fad as Religion is to.....?.....
Alt1	Crucification
Alt2	Notion
Alt3	Superstition
Alt4	Mythology

4	Select the lettered pair that has the same relationship as the original pair of words: Fond: Doting
Alt1	Sollicitous: Concern
Alt2	Verbose: Wordiness
Alt3	Flurry: Blizzard
Alt4	Magnificent: Grandiose

5	Which of the following is the same as Emancipate, Free, Release?
Alt1	Liberate
Alt2	Quit
Alt3	Pardon
Alt4	Ignore

6	Spot the defective segment from the following:
Alt1	I met one of the mountaineers
Alt2	that have returned
Alt3	to their base camp
Alt4	the last week

7	Choose the meaning of the idiom/phrase from among the options given: To call names
Alt1	to abuse
Alt2	to recall something
Alt3	to count the prisoners
Alt4	to take attendance

8	Our tour programme fell ----- because of inclement weather.
Alt1	through
Alt2	off
Alt3	out
Alt4	down

9	Choose the option closest in meaning to the given word: POIGNANT
Alt1	unbearable
Alt2	maximal
Alt3	pathetic
Alt4	sharp

10	Choose the antonymous option you consider the best: WANTON
Alt1	rational
Alt2	abstemious
Alt3	dearth
Alt4	deliberate

11	Six people K, L, M, N, O and P are sitting around a table as per the following conditions. i. N and O are opposite each other
	ii. K is to the right of M
	iii. L and K are opposite each other
	iv. N is to the left of P
	Who is to the left of L ?
Alt1	P
Alt2	M
Alt3	N
Alt4	O

12	Study the following table carefully to answer the questions that follow (15 to 17) :Total number of employees in different departments in an organisation and (of these) percentage of females and males Department Total number of employees Percentage of female employees Percentage of male employees IT 840 45 55 Accounts 220 35 65 Production 900 23 77 HR 360 65 35 Marketing 450 44 56 Customer Service 540 40 60 What is the total number of male employees in the IT and Customer Service departments put together?
Alt1	115
Alt2	786

Alt3	768
Alt4	85

13	<p>Study the following table carefully to answer the questions that follow (15 to 17) :Total number of employees in different departments in an organisation and (of these) percentage of females and males</p> <table border="1"> <thead> <tr> <th>Department</th> <th>Total number of employees</th> <th>Percentage of female employees</th> <th>Percentage of male employees</th> </tr> </thead> <tbody> <tr> <td>IT</td> <td>840</td> <td>45</td> <td>55</td> </tr> <tr> <td>Accounts</td> <td>220</td> <td>35</td> <td>65</td> </tr> <tr> <td>Production</td> <td>900</td> <td>23</td> <td>77</td> </tr> <tr> <td>HR</td> <td>360</td> <td>65</td> <td>35</td> </tr> <tr> <td>Marketing</td> <td>450</td> <td>44</td> <td>56</td> </tr> <tr> <td>Customer Service</td> <td>540</td> <td>40</td> <td>60</td> </tr> </tbody> </table> <p>What is the total number of employees in all departments put together ?</p>	Department	Total number of employees	Percentage of female employees	Percentage of male employees	IT	840	45	55	Accounts	220	35	65	Production	900	23	77	HR	360	65	35	Marketing	450	44	56	Customer Service	540	40	60
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Alt1	3260																												
Alt2	3310																												
Alt3	3140																												
Alt4	3020																												

14	<p>Select the alternative that logically follows from the two given statements, but not from one statement alone:</p> <p>All Cats are dogs No dogs are rats</p>
Alt1	All cats are rats
Alt2	Some cats are rats
Alt3	No cat is rat
Alt4	None of the above

15	<p>In a certain code language, “ When did you come” is written as ‘ti na ki ja’. “Will you come again” is written as ‘na pa sa ja’ and “She will go” is written as ‘pa da ra’. How is “again” written in that code language ?</p>
Alt1	Na
Alt2	sa
Alt3	ja
Alt4	da

16	<p>In each of the following questions some statements are followed by two conclusions (i) and (ii). Read the statements carefully and then decide which of the concisions follow beyond a reasonable doubt. Mark your answer as</p> <p>Statement: The aspirants should apply through a proper channel for permission Conclusions: (i) Those who apply through proper channel will get permission (ii) Those who do not apply through proper channel will not get permission</p>
Alt1	If only conclusion (i) follows

Alt2	If only conclusion (ii) follows
Alt3	If neither conclusion (i) nor (ii) follows
Alt4	If both the conclusions follow

17	The average height of 3 children is 115 cms. If the heights of 2 children are 117 cms. And 112 cms. Respectively, the height of the third child is
Alt1	112 cms.
Alt2	113 cms.
Alt3	115 cms.
Alt4	116 cms.

18	What is the 30% of 40% of 2/5th of 5000?
Alt1	500
Alt2	800
Alt3	240
Alt4	720

19	There are n persons in a room. Each one is shaking hand with the other . Ultimately there are 66 hand-shakes. Then n=
Alt1	11
Alt2	12
Alt3	16
Alt4	33

20	A problem is given to students 10 students choose option A ; 6 students choose option B ; 2 students choose option C; Gopal choose option D; 5 students did not answer. which option is correct if the teacher tells that One-Twelth of the class gave the correct answer.
Alt1	B
Alt2	A
Alt3	C
Alt4	D

21	The underground water that occurs within zone of aeration is called
Alt1	Plutonic water
Alt2	Vadose water
Alt3	Meteoric water
Alt4	Connate water

22	The horizontal entry into ore-body is called
Alt1	Adit
Alt2	Shaft
Alt3	Beach
Alt4	Pit

23	Which of the following has the least stiffness
Alt1	Basalt
Alt2	Quartz
Alt3	Limestone
Alt4	Sandstone

24	The Tethys is located between
Alt1	North America to South America
Alt2	North America to Eurasia
Alt3	Eurasia and Africa
Alt4	Antarctica and Australia

25	Exfoliation is a form of
Alt1	Mass wasting
Alt2	Chemical weathering
Alt3	Physical weathering
Alt4	Biochemical weathering

26	Natural levee is an example of
Alt1	Point bar deposits
Alt2	Channel fill deposits
Alt3	Flood plain deposits
Alt4	Flood basin deposits

27	Which of the following symmetry elements characterize pyrite crystal
Alt1	Four two fold axes
Alt2	Three two fold axes
Alt3	Two four fold axes
Alt4	One six fold axis

28	Which type of clay is used as drilling mud
Alt1	Bentonite clay
Alt2	Fullers clay
Alt3	Fire clay
Alt4	China clay

29	Which of the following is considered as secondary structure
Alt1	Foliation
Alt2	Cleavage
Alt3	Lineation
Alt4	Folds

30	Which one is biaxially positive mineral
Alt1	Biotitic
Alt2	Garnet
Alt3	Calcite

Alt4	Sillimanite
------	-------------

31	Which of the following has monoclinic crystal system
Alt1	Angite
Alt2	Pyrite
Alt3	Wollastonite
Alt4	Hypersthene

32	An oval to circular fold with strata dipping outward from a central point is
Alt1	Plunging fold
Alt2	Basin
Alt3	Recumbent syncline
Alt4	Dome

33	If deformed rock regain their shape when they are no longer under stressors condition
Alt1	Tensional
Alt2	Elastic
Alt3	Plastic
Alt4	Shear

34	The 'B' horizon of soil is the zone of
Alt1	Leaching
Alt2	Accumulation
Alt3	Un-weather parent material
Alt4	Organic matter accumulation

35	When several sinkhole coalesce, the result is
Alt1	a graben
Alt2	a solution valley
Alt3	a syncline
Alt4	a kettle

36	In uniform flat rock drainage, drainage pattern tend to be
Alt1	dendritic
Alt2	radial
Alt3	trellis
Alt4	braided

37	The gently sloping rock surface that forms at the base of mountain in arid regions
Alt1	Playa
Alt2	Graben
Alt3	Pediment
Alt4	Stratum

38	Which of the following can be used to determine the palaeo-current direction
Alt1	Mud crack
Alt2	Cross bedding

Alt3	Graded bedding
Alt4	Turbidity currents

39	Which would be least likely to indicate a desert environment.
Alt1	Large cross-bed
Alt2	Coal
Alt3	Evaporite
Alt4	Mud cracks

40	If you have 1 gm of carbon-14 after two half life you will have
Alt1	None
Alt2	½ gram
Alt3	2 gram
Alt4	¼ gram

41	Why K-Ar cannot date younger rock ?
Alt1	All the Ar decayed
Alt2	All the 'K' decayed
Alt3	All the K-Ar leaked
Alt4	not enough 'K' has decayed yet

42	Dendrites are
Alt1	Pseudo fossils
Alt2	Fossil tree branches
Alt3	Fossil ferns
Alt4	Fossil moss

43	A sudden movement of a glacier caused by a sudden addition of snow on ice
Alt1	Surge
Alt2	Plastic deformation
Alt3	Calving
Alt4	Basal slip

44	In high grade meta-morphism, biotite melting indicates
Alt1	Rock cooling
Alt2	Rock hydration
Alt3	Rock uplifting
Alt4	Rock dehydration

45	Mantle xenoliths are observed in
Alt1	Granite
Alt2	Kimberlite
Alt3	Pegmatite
Alt4	Granulites

46	Convection is likely to occur in
Alt1	the mantle

Alt2	the out core
Alt3	both mantle and out core
Alt4	throughout the earth

47	Which type of faulting would be least likely to occur along mid-Atlantic ridges
Alt1	Normal
Alt2	Reverse
Alt3	Transform
Alt4	all of these could occur

48	The bulk modulus measures
Alt1	Resistance to change in shape
Alt2	Resistance to change in volume
Alt3	Resistance to change colour
Alt4	Resistance to flow of liquid

49	Transgression is caused by
Alt1	Decrease rate of sedimentation
Alt2	Increase rate of subsidence
Alt3	Rise in relative sea level
Alt4	Rise in eustatics sea level

50	Foreland Basins are associated with
Alt1	Crustal extension
Alt2	Thrust loading
Alt3	Thermal contraction
Alt4	Strike slip fault

51	Which of the following has the least electrical conductivity
Alt1	Diamond
Alt2	Sulphur
Alt3	Clay
Alt4	Anthracite

52	Which sampling method is resorted to, when the exposure to out crops are scarce
Alt1	Drilling
Alt2	Trenching
Alt3	Bulk sampling
Alt4	Well logging

53	Which of the following is not a closing ocean basin
Alt1	Black sea
Alt2	Red sea
Alt3	Caspian sea
Alt4	Mediterranean sea

54	The most favorable environment for preservation of fossil is
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Alt1	Terrestrial
Alt2	Lacustrine
Alt3	Fluvial
Alt4	Marine

55	Which mineral shows the double refraction
Alt1	Calcite
Alt2	Quartz
Alt3	Feldspar
Alt4	Galena

56	Blind valley is formed due to
Alt1	Erosion
Alt2	Depositional
Alt3	Steep slope
Alt4	Surface runoff

57	Number of grain to grain contacts counted in the traverse is
Alt1	Packing density
Alt2	Packing proximity
Alt3	True porosity
Alt4	True density

58	Tenorites is an ore mineral of
Alt1	Iron
Alt2	Manganese
Alt3	Copper
Alt4	Lead

59	Ruby is a gem variety of
Alt1	Olivine
Alt2	Labradorite
Alt3	Quartz
Alt4	Corundum

60	Which era is called as "Age of Reptiles"
Alt1	Paleozoic Era
Alt2	Mesozoic Era
Alt3	Cenozoic Era
Alt4	Proterozoic Era

61	Rock salt is found in India
Alt1	Manali
Alt2	Mandi
Alt3	Solan
Alt4	Simla

62	A material is acidic in pH range of
Alt1	1 to 5
Alt2	1 to 7
Alt3	7 to 10
Alt4	8 to 14

63	Rock deformation is
Alt1	Brittle
Alt2	Ductile
Alt3	Both A & B
Alt4	Not known

64	The line of maximum curvature in a fold is known as
Alt1	Crest
Alt2	Axis
Alt3	Hinge
Alt4	Trough

65	Which of the following feature indicate faulting?
Alt1	Slicken sides
Alt2	Grooves
Alt3	Breccia
Alt4	All of the above

66	The refractive index of the ocean water
Alt1	Decrease with salinity
Alt2	Increase with salinity
Alt3	Decrease with temperature
Alt4	Increase with temperature

67	The skeleton of a simple coral is
Alt1	Conical shape
Alt2	Triangular in shape
Alt3	Rounded in shape
Alt4	Flat in shape

68	Sinstral coiling is found in
Alt1	Pupilla
Alt2	Naticis
Alt3	Physa
Alt4	Trochus

69	The isotops ^{232}Th Decays to
Alt1	^{206}pb
Alt2	^{207}pb
Alt3	^{208}pb
Alt4	^{209}pb

70	Which volcanic rock contain lowest percentage of silica
Alt1	Basalt
Alt2	Andesite
Alt3	Trachyte
Alt4	Rhyolite

71	Pahoehoe – structure is related to
Alt1	Block lava
Alt2	Ropy lava
Alt3	Pillow structure
Alt4	Lava-drain tunnel

72	The sedimentary rock without stratification is
Alt1	Shale
Alt2	limestone
Alt3	Sandstone
Alt4	Tillite

73	Chalk is a variety of
Alt1	Biosparite
Alt2	Sparite
Alt3	Biomicrite
Alt4	Stromatolite

74	Mylonite rock shows the
Alt1	Cataclastic fabric
Alt2	Granulitic fabric
Alt3	Hornfelsic fabric
Alt4	Foliated fabric

75	Which facies are formed at very high pressure
Alt1	Blueschist facies
Alt2	Eclogite facies
Alt3	Sanidinite facies
Alt4	Both A & B

76	Chemical composition for marbal
Alt1	CaCO_3
Alt2	MgCO_3
Alt3	Al_2O_3
Alt4	$\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$

77	First fishes and the first land plants appeared in the system
Alt1	Cambrian
Alt2	Ordovician
Alt3	Silurian

Alt4	Devonian
78	Age of the Deccan traps is
Alt1	Lower cretaceous
Alt2	Lower cretaceous to Eocene
Alt3	Upper cretaceous to Eocene
Alt4	Eocene to Miocene
79	Who is known as the father of stratigraphy
Alt1	J.D.Dana
Alt2	T.H.Holand
Alt3	Smith
Alt4	L.L.Fermor
80	Pot holes are formed generally by
Alt1	Hydraulic action
Alt2	Abrasion or corrosion
Alt3	Attrition
Alt4	Corrosion
81	Deltas are formed in
Alt1	Initial stage of the river
Alt2	Youth stage of the river
Alt3	Mature stage of the river
Alt4	Old stage of the river
82	Wind does erosion in
Alt1	Attrition
Alt2	Abrasion
Alt3	Deflation
Alt4	All the above process
83	The strain at a point is a
Alt1	Scalar
Alt2	Vector
Alt3	Tensor
Alt4	None of the above
84	Generally aerial photographs are taken
Alt1	Horizontally
Alt2	Vertically
Alt3	At an angle of 45 degrees
Alt4	At an angle of 60 degrees
85	For good building stone, the wear should be less than
Alt1	0.01
Alt2	0.03

Alt3	0.05
Alt4	0.1

86	Most weather resesting rock is
Alt1	Quartzite
Alt2	Marble
Alt3	Limestone
Alt4	Slate

87	Acoustic impedance is the _____ of density and velocity
Alt1	Sum
Alt2	Product
Alt3	Difference
Alt4	Ratio

88	In a homogeneous anisotropic medium, the physical property varies
Alt1	with direction
Alt2	with position
Alt3	Both with position and direction
Alt4	Neither position nor direction

89	Radiometric dating is least useful for dating
Alt1	Volcanic rocks
Alt2	Plutonic rocks
Alt3	Metamorphic rocks
Alt4	Sedimentary rocks

90	The youngest sequence of Cretaceous formations is
Alt1	Trichy
Alt2	Ariyalur
Alt3	Uttatur
Alt4	Niniyur

91	The crystal form with highest number of faces
Alt1	Hexoctahedron
Alt2	Trisoctahedron
Alt3	Rhombdodecahedron
Alt4	Trapezohedron

92	A fold with two hinges
Alt1	Chevron fold
Alt2	Recumbent fold
Alt3	Box fold
Alt4	Parallel fold

93	Hawaiian Islands are formed by
Alt1	Convergent plate margins

Alt2	Divergent plate margins
Alt3	Mantle plumes
Alt4	Earthquakes

94	The maximum velocity of the Indian Plate is observed in
Alt1	Delhi
Alt2	Srinagar
Alt3	Maldives
Alt4	Goa

95	The volcanic equivalent of Granite is
Alt1	Rhyolite
Alt2	Dacite
Alt3	Trachyte
Alt4	Basalt

96	The texture formed by very high grade metamorphism is
Alt1	Phyllitic
Alt2	Migmatitic
Alt3	Schistose
Alt4	Granulitic

97	The volcanic glass formed by felsic lava is
Alt1	Quartz
Alt2	Tridimite
Alt3	Crystabolite
Alt4	Obsidian

98	Gas leaked in Bhopal tragedy
Alt1	Methyl isocyanate
Alt2	Potassium isothiocyanate
Alt3	Ethyl isocyanate
Alt4	Sodium isothiocyanate

99	Biochemical Oxygen Demand measures
Alt1	Industrial pollution
Alt2	Air pollution
Alt3	Pollution capacity of effects
Alt4	Dissolved O ₂ needed by microbes to decompose organic waste

100	Which of the following is not an Aluminium Silicate?
Alt1	Kyanite
Alt2	Corundum
Alt3	Andalusite
Alt4	Sillimanite