379 PU M Sc Disaster Management

121 PU_2016_379_E
Among the following, which is least acidic?

○ phenol

○ p-nitrophenol

○ O-cresol

○ p-chlorophenol

120 PU_2016_379_E
Among the following, the compound that contains ionic, covalent and coordinate linkage is:-

○ NaCl

○ CaO

○ NH_3

○ NH_4Cl

107 PU_2016_379_E
The planet which contributes maximum to the angular momentum of the solar system is:-

○ Mars

○ Earth

○ Jupiter

○ Saturn

100 PU_2016_379_E
Earthquake mostly occur at:-

○ Uplands

○ Plateau

○ Low lying areas

○ Plate margins

141 PU_2016_379_E
Which of the following group of countries is most famous for exporting wool and meat?

○ Australia, Argentina, New Zealand

○ Australia, Sri Lanka, Indonesia

○ Argentina, France, Chile

New Zealand, Argentina, Italy

6 of 100
140 PU_2016_379_E
Which of the following industries is most developed in the Great Lakes region of North America?

○ Textile and Chemicals

○ Cement and Paper

○ Film industry

○ Steel and Engineering

7 of 100
168 PU_2016_379_E
Faulting is a:-

○ rigid mechanism

○ brittle mechanism

○ convection mechanism

○ ductile mechanism

8 of 100
102 PU_2016_379_E
Climate is a phenomenon of:-

○ Longer period

○ Shorter period

○ Ancient period

○ Glacial period

9 of 100
156 PU_2016_379_E
An object that has kinetic energy must be:-

○ at rest

○ moving.

○ at an elevated position.

○ falling.

10 of 100
209 PU_2016_379_E
Isotopes contain:-

○ Same number of neutrons but different number of protons

○ Same number of electrons but different protons

○ Same number of protons with different number of electrons

○ Same number of protons but different number of neutrons

145 PU_2016_379_E
Which of the following landform is not associated with glaciation?

○ Hanging valley

○ Drumlin

○ Moraines

○ Inselberg

144 PU_2016_379_E
Which of the following landforms is different from other three on the basis of the mode of origin?

○ Anticline

○ Nappes

○ Fold

○ Rift Valley

143 PU_2016_379_E
Which of the following state groups is the largest producer of iron-ore in India?

○ Maharashtra, Orissa, Andhra Pradesh

○ Orissa, Madhya Pradesh, Bihar

○ Madhya Pradesh, Maharashtra, Punjab

○ Bihar, W. Bengal, Orissa

165 PU_2016_379_E
Ozone layer is located at the height of:-

○ 150 km

○ 200 km

○ 20-50 km

○ 500 km

178 PU_2016_379_E
The continental crust is mainly made up of:-

○ pyroxene

○ Felsic

○ Mafic

olivine

205 PU_2016_379_E
Aeroplane flys in the:-

Exosphere

Ozone layer

Troposphere

Mesosphere

148 PU_2016_379_E
From which of the following longitude the Indian standard time is determined?

80° West

82° 30' East

90° East

81° 30' East

204 PU_2016_379_E
During hydropower generation:-

Heat energy is converted into electrical energy

Mechanical energy is converted into Electrical energy

Chemical energy is converted into electrical energy

Nuclear energy is converted into electrical energy

166 PU_2016_379_E
One end of a long, uniform log is raised to shoulder level. Another identical log is raised at its center to the same level. Raising the second log requires about:-

twice as much work.

the same amount of work.

more than twice as much work.

Less than twice

157 PU_2016_379_E
An object that has potential energy may have this energy because of its:-

acceleration.

location

○ speed.

○ momentum.

132 PU_2016_379_E
Which of the following landform is **not** associated with river erosion?

○ Ox-bow lake

○ Waterfall

○ V-shaped valley

○ Moraines

159 PU_2016_379_E

A movement of water in one direction is called:-

○ Oscillations

○ Amplitude

○ Current

○ Dispersion

158 PU_2016_379_E
Bullets are fired from an airplane in the forward direction of motion. The momentum of the airplane will be:-

○ decreased.

○ increased.

○ unchanged.

○ doubled

101 PU_2016_379_E
When Tsunami occurs, the better way is to:-

○ Move to a lowlying areas

○ Stay back wherever you are

○ Move to a higher ground

○ Wait till it receds

188 PU_2016_379_E
In convergent plate tectonic setting, thickest continental lithosphere is associated with:-

○ Ocean-ocean divergent setting

○ Ocean-continent convergent setting

○ Continent-continent collision setting

○ Ocean-Ocean convergent setting

26 of 100
130 PU_2016_379_E
Which is not the correct statement about RNA and DNA?

○ DNA is active in virus where RNA never appears in virus

○ DNA contains deoxyribose as its sugar and RNA contains ribose

○ DNA exists as dimer while RNA is usually single stranded

○ RNA contains uracil in place of thymine (found in DNA) as a base

27 of 100
179 PU_2016_379_E
The oceanic crust is mainly made up of:-

○ Felsic

○ Mafic

○ Olivine

○ Pyroxene

28 of 100
149 PU_2016_379_E
Which of the following oceans are connected by Panama Canal?

○ Pacific and Atlantic

○ Atlantic and North Ocean

○ Indian Ocean and Pacific

○ Atlantic and Indian Ocean

29 of 100
155 PU_2016_379_E
The upper crust is mostly:-

○ Plastic

○ Rigid

○ Elastic-ductile

○ Elastic-brittle

30 of 100
189 PU_2016_379_E
The value of earth's gravity varies with:-

○ A) Altitude

○ B) Latitude

○ C) Both A & B

○ D) none

31 of 100
133 PU_2016_379_E
Which of the following latitude is the longest?

○ 0°

○ 80°N

○ 23°N

○ 66°N

32 of 100
169 PU_2016_379_E
Change in position horizontally is called:-

○ Rotation

○ Translation

○ Spinning

○ Revolution

33 of 100
203 PU_2016_379_E
Highest rainfall is recorded at:-

○ Andaman

○ Kerala

○ Assam

○ Meghalaya

34 of 100
131 PU_2016_379_E
Which of the following rock is different from the remaining three on the basis of its mode of origin?

○ Limestone

○ Sandstone

○ Shale

○ Marble

35 of 100
202 PU_2016_379_E
Mirage is caused due to:-

○ Air

○ Atmospheric reflection of hot air

○ Atmospheric refraction of hot air

○ Distance

36 of 100
207 PU_2016_379_E
Which one of the following is a strong acid?

○ HNO_3

○ $CaSO_4$

○ NaOH

○ NH_3

37 of 100
146 PU_2016_379_E
Which of the following order is given to the planets of solar system on the basis of their size?

○ Saturn, Jupiter, Mercury, Neptune

○ Neptune, Mercury, Saturn, Jupiter

○ Jupiter, Saturn, Neptune, Mercury

○ Jupiter, Mercury, Neptune, Saturn

38 of 100
103 PU_2016_379_E
Variation of the geomagnetic field observed over the last 500 years indicates that the dipole moment of earth's magnetic field has been:-

○ decreasing

○ constant

○ increasing

○ fluctuating

39 of 100
134 PU_2016_379_E
Two places on the same meridian must have the same:-

○ Length of winter

○ Length of summer

○ Latitude

○ Solar time

40 of 100
124 PU_2016_379_E

An element with atomic number 21 is a:-

○ representative element

○ alkali metal

○ transition element

○ halogen

106 PU_2016_379_E
Tsunamis are:-

○ capillary waves

○ acoustic waves

○ gravity waves

○ internal waves

176 PU_2016_379_E
A volcanic explosion forming a central depression is known as:-

○ Caderd

○ Dyke

○ Crater

○ Sill

187 PU_2016_379_E
The temperature of the center of the earth is estimated to be:-

○ < 3000°C

○ 2000°C <3000°C

○ > 4000°C

○ < 1000°C

142 PU_2016_379_E
Which of the following soils is most suitable for the cultivation of cotton in India?

○ Red soil

○ Regur soil

○ Laterite soil

○ Alluvial soil

175 PU_2016_379_E

Earthquake is an example of:-

○ Weathering process

○ Exogenetic forces

○ Endogenic process

○ All of the above

105 PU_2016_379_E
The deflection of ocean currents in the northern and southern hemispheres is due to:-

○ monsoon effect

○ El Nino effect

○ Coriolis effect

○ thermohaline circulation

147 PU_2016_379_E
As we go higher into the atmosphere, the air becomes:-

○ Thinner

○ Visible

○ Denser

○ Warmer

201 PU_2016_379_E
The periodic table is table is arranged according to:-

○ Atomic number

○ Abundance elements

○ Atomic weight

○ Mass

123 PU_2016_379_E
An aqueous solution containing 6.5 gm of NaCl of 90% purity was subjected to electrolysis. After the complete electrolysis, the solution was evaporated to get solid NaOH. The volume of 1 M acetic acid required to neutralize NaOH obtained above is:-

○ 2000 cm^3

○ 100 cm^3

○ 1000 cm^3

○ 200 cm^3

167 PU_2016_379_E
Two identical arrows, one with twice the kinetic energy of the other, are fired into a hay bale. The faster arrow will penetrate:-

○ twice as far as the slower arrow.

○ four times as far as the slower arrow.

○ more than four times as far as the slower arrow

○ the same distance as the slower arrow.

122 PU_2016_379_E
An alkyl halide reacts with alcoholic ammonia in a sealed tube, the product formed will be:-

○ a primary amine

○ a tertiary amine

○ a secondary amine-

○ a mixture of all the three

200 PU_2016_379_E
Human cannot hear sound less than:-

○ 1000 Hz

○ 300 Hz

○ 500 Hz

○ 20 Hz

108 PU_2016_379_E
The depositional feature that forms where a stream emerges from a mountainous region onto a plain is called:-

○ alluvial fan

○ natural levee

○ point bar

○ delta

186 PU_2016_379_E
The epicenter of deep focus earthquake is located:-

○ Between 70-300km

○ Below a depth of 70km

○ Below 300km

On the earth's surface

177 PU_2016_379_E
Body waves in earthquakes is/are:-

A) P waves

B) S waves

C) L waves

D) Both A & B

104 PU_2016_379_E
Which of the following statements is TRUE for the temperature variation with altitude in the earth's atmosphere?

Temperature decreases in both stratosphere and mesosphere

Temperature increases in both stratosphere and mesosphere

Temperature increases in stratosphere and decreases in mesosphere

Temperature decreases in stratosphere and increases in mesosphere

185 PU_2016_379_E
Gabbro is example of:-

sedimentary rock

Igneous rock

metamorphic rock

remetamorphosed rock

206 PU_2016_379_E
Acid rain occurs when:-

CO_2 combines with moisture

Ammonia combines with water

Hydrogen combines with water

SO_2 combines with moisture vapour

208 PU_2016_379_E
Which one is the hardest?

Diamond

Silver

○ Gold

○ Planitum

60 of 100
109 PU_2016_379_E
Hanging valleys are formed by the geological action of:-

○ wind

○ glacier

○ river

○ ocean

61 of 100
222 PU_2016_379_M
A Newton is equal to which of the following?

○ kilogram-meter per second squared

○ meter per second squared

○ kilogram-meter per second

○ kilogram per meter-second

62 of 100
224 PU_2016_379_M
Work is equal to which of the following?

○ the cross product of force and displacement.

○ the product of force times time

○ the dot product of force and displacement

○ force divided by time

63 of 100
226 PU_2016_379_M
As defined in physics, work is:-

○ a scalar quantity

○ a vector quantity

○ always a positive quantity

○ always zero

64 of 100
240 PU_2016_379_M
Which one of the following is not a greenhouse gases:-

○ Methane

○ CO_2

○ Nitrogen

○ Water vapour

65 of 100
253 PU_2016_379_M
The value of G, the Universal gravitational constant, was measured experimentally by:-

○ Cavendish

○ Copernicus

○ Newton

○ Kepler

66 of 100
241 PU_2016_379_M
A standing wave is formed on a tightly stretched string. The distance between a node and an antinodes is:-

○ 1 wavelength

○ 1/2 wavelength

○ 1/8 wavelength

○ 1/4 wavelength

67 of 100
223 PU_2016_379_M
For an object moving in uniform circular motion, the direction of the instantaneous acceleration vector is:-

○ tangent to the path of motion

○ directed radially inward

○ equal to zero

○ directed radially outward

68 of 100
225 PU_2016_379_M
The work done by a friction force is:-

○ always positive

○ always zero

○ always negative

○ either positive or negative depending upon the situation

69 of 100
244 PU_2016_379_M
Whose principle or law states that each point on a wave front may be considered a new wave source? Is it:-

○ Young's Law

○ Hertz's Law

○ Snell's Law

○ Huygen's Principle

70 of 100

254 PU_2016_379_M

Two steel balls are at a distance S from one another. As the mass of ONE of the balls is doubled, the gravitational force of attraction between them is:-

○ quartered

○ quadrupled

○ halved

○ doubled

71 of 100

229 PU_2016_379_M

A ball leaves a girl's hand with an upward velocity of 6 meters per second. What is the maximum height of the ball above the girl's hand?

○ 1 meter

○ 2.8 meters

○ 1.8 meters

○ 0.5 meter

72 of 100

252 PU_2016_379_M

The time needed for a net force of 10 Newton's to change the velocity of 5 kilograms mass by 3 meters/second is:-

○ 6 seconds

○ 1.5 seconds

○ 150 seconds

○ 16.7 seconds

73 of 100

228 PU_2016_379_M

Two forces have magnitudes of 11 Newton and 5 Newton. The magnitude of their sum could NOT be equal to which of the following values?

○ 16 Newton's

○ 7 Newton's

○ 9 Newtons

○ 5 Newtons

74 of 100

227 PU_2016_379_M
A pendulum which is suspended from the ceiling of a railroad car is observed to hang at an angle of 10 degrees to the right of vertical. Which of the following answers could explain these phenomena?

○ The railroad car is at rest.

○ The railroad car is accelerating to the right

○ The railroad car is accelerating to the left.

○ The railroad car is moving with constant velocity to the right.

242 PU_2016_379_M
When a physical property such as charge exists in discrete "packets" rather than in continuous amounts, the property is said to be:-

○ quantized

○ discontinuous

○ noncontinuous

○ abrupt

220 PU_2016_379_M
For the hydrogen atom, which series describes electron transitions to the N=1 orbit, the lowest energy electron orbit? Is it the:-

○ Paschen series

○ Pfund series

○ Lyman series

○ Balmer series

250 PU_2016_379_M
A worker lifts a 10 kilogram block a vertical height of 2 meters. The work he does on the block is:-

○ 200 Joules

○ 20 Joules

○ 5 Joules

○ 49 Joules

251 PU_2016_379_M
An impulse of 10 kilogram-meters per second acting on an object whose mass is 5 Kilogram will cause a change in the objects velocity of:-

○ 2 meters per second

○ 10 meters per second

○ 50 meters per second

○ 0.5 meters per second

221 PU_2016_379_M
Bronze is an alloy of:-

○ Iron and Lead

○ Iron and Aluminium

○ Zinc and copper

○ Aluminium and Lead

243 PU_2016_379_M
An organ pipe which is open at both ends resonates at its fundamental frequency. Neglecting any end effects, what wavelength is formed by this pipe in this mode of vibration if the pipe is 2 meters long?

○ 8 meters.

○ 2 meters

○ 6 meters

○ 4 meters

290 PU_2016_379_D
Solar eclipse occurs when:-

○ Moon and earth on either side of the sun

○ Earth comes in between sun and moon

○ Moon comes in between earth and sun

○ Sun comes in between earth and moon

291 PU_2016_379_D
How thick is the crust of the Earth?

○ About 40 km

○ About 4 km

○ About 4 miles

○ About 400 km

280 PU_2016_379_D
The ideal climatic conditions for the cultivation of rice are:-

○ Rainfall below 100 cm, temperature below 25° C

○ Cool and moist climate for the entire crop period

○ Warn and dry climate during the entire crop period

○ Rainfall above 100 cm, temperature above 25° C

265 PU_2016_379_D
A place having an average temperature of 27° C and an annual rainfall of over 200 cm, it could be?

○ Moscow

○ Tehran

○ Nagpur

○ Singapore

268 PU_2016_379_D
Oasis is found at:-

○ Temperate places

○ Cold places

○ Poles

○ Arid places

269 PU_2016_379_D
Sucrose content in sugarcane decreases:-

○ if there is high temperature during the time of ripening

○ if frost occurs during the process of ripening

○ if high rainfall occurs during the period of growth of the plant

○ if there is fluctuation in temperature during the period of growth of the plant

292 PU_2016_379_D
The layer that separates crust from core is the?

○ Mantle

○ Continent

○ Lithosphere

○ Magma layer

294 PU_2016_379_D
In general, igneous rocks:-

○ Form by crystallization of solids from a liquid

○ Form at relatively high temperatures

○ Form at high and low pressures

○ All of these

89 of 100
262 PU_2016_379_D
The country that has the greatest length of the day during summer is:-

○ Nigeria

○ Australia

○ Norway

○ Mexico

90 of 100
267 PU_2016_379_D
Auroras light appear at:-

○ Poles

○ Equator

○ Troposphere

○ Exosphere

91 of 100
266 PU_2016_379_D
Extensive subsistence agriculture is:-

○ Farming in the thickly populated areas

○ Farming in the forests of equatorial region

○ Farming on the slopes of Western Ghats

○ Farming in the thinly populated areas

92 of 100
282 PU_2016_379_D
Rusting is:-

○ Carbonation

○ Ionisation

○ Oxidation

○ Hydration

93 of 100
261 PU_2016_379_D
Seasons are caused because of:-

○ Moon

○ Tilting and rotation of earth

○ Gravity

○ Sun

260 PU_2016_379_D
At the equator, the following causes a cyclone:-

○ Low pressure and High Temperature

○ Low pressure and Low Temperature

○ High pressure and Low Temperature

○ High pressure and High Temperature

283 PU_2016_379_D
Name of the hills situated to the Northeast of Indian plateau?

○ Vindyachal

○ Aravalli

○ Jainti

○ Nilgiri

263 PU_2016_379_D
Ozone layer filter:-

○ X ray

○ Visible ray

○ Infrared ray

○ UV ray

293 PU_2016_379_D
Capacitors store:-

○ Voltage

○ Static current

○ Potential

○ Electric charge

284 PU_2016_379_D
Great canyon of Arizona is formed by:-

○ River

○ Glacier

○ Wind

○ Sea

281 PU_2016_379_D
Which crop is generally sown to restore and maintain soil fertility?

○ Jowar

○ Barley

○ Pulses

○ Maize

264 PU_2016_379_D
The maximum temperature in Thar Desert during the month of May is between (in Degree centigrade):-

○ 40-43

○ 37-39

○ 35-37

○ 43- 45

Sr No.	MSc Disaster Management
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	Solicitous: 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	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 employees in all departments put together ?
Alt1	3260
Alt2	3310
Alt3	3140
Alt4	3020

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

15	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 ?
Alt1	Na
Alt2	sa
Alt3	ja
Alt4	da

16	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 conclsions follow beyond a reasonable doubt. Mark your answer as 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
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	Amines behave as:-
Alt1	aprotic acid
Alt2	neutral compound
Alt3	Lewis acids
Alt4	Lewis base

22	The dominant constituent of ultramafic rocks in the earth's mantle is:-
Alt1	Plagioclase
Alt2	Biotite
Alt3	Olivine
Alt4	Orthoclase

23	The hardest oxide mineral in the Mohrs' scale of hardness is:-
Alt1	Corundum
Alt2	Quartz
Alt3	Topaz
Alt4	Diamond

24	Which of the following process helps in the formation of rift valley?
Alt1	Seismicity
Alt2	Faulting
Alt3	Folding
Alt4	Volcanism

25	Curd contains:-
Alt1	Lactic acid
Alt2	Oxalic acid
Alt3	Citric acid
Alt4	Formic acid

26	Feldspar is the most abundant mineral of the earth's crust weather by:-
Alt1	Hydrolysis
Alt2	Physical weathering
Alt3	Dissolution
Alt4	Exfoliation

27	A highly vesicular rock formed by solidification of viscous lava is:-
Alt1	Pumice
Alt2	Obsidian
Alt3	Tuff
Alt4	Volcanic Breccia

28	An ungloved fist will do more damage to a jaw than a gloved fist. The reason for this is that the ungloved fist:-
Alt1	delivers a larger impulse to the jaw.
Alt2	has less air resistance on it.
Alt3	exerts a larger force on the jaw.
Alt4	none of these

29	5.6 liter of helium gas at STP is adiabatically compressed to 0.7 liters. Taking the initial temperature to be T1, the work done in the process is:-
Alt1	19RT8
Alt2	13RT2
Alt3	115RT8
Alt4	19RT2

30	2004 Great Sumatra-Andaman earthquake is due to:-
Alt1	Listric fault

Alt2	Normal fault
Alt3	Strikeslip fault
Alt4	Reverse (Thrust) fault

31	Dendritic drainage pattern develops over a region having a:-
Alt1	a regularly fractured lithology
Alt2	conical mountain
Alt3	highly jointed rocks
Alt4	uniform unbroken lithology

32	Combustion is a:-
Alt1	Ionic process
Alt2	Magnetic process
Alt3	Chemical process
Alt4	Physical process

33	A metal present in insulin is:-
Alt1	Copper
Alt2	Zinc
Alt3	Aluminium
Alt4	Iron

34	The only volcanic island of India is:-
Alt1	Minicoy
Alt2	Kavaratti
Alt3	Barren
Alt4	Androth

35	A woman lifts a box from the floor. She then moves with constant speed to the other side of the room, where she puts the box down. How much work does she do on the box while walking across the floor at constant speed? (J = Joules):-
Alt1	more than zero J
Alt2	less than 1
Alt3	zero J
Alt4	more information needed to determine

36	At the head of a glacier, where a deep vertical crack open up called a:-
Alt1	Rimaye
Alt2	Beroschrund
Alt3	Corrie
Alt4	Both a & b

37	The discontinuity between mantle and core is referred as:-
Alt1	Gutenberg continuity
Alt2	Mohorovic continuity
Alt3	conard discontinuity
Alt4	Repetiti discontinuity

38	Which cycloalkane has the lowest heat of combustion per CH2 group?
Alt1	Cyclopentane
Alt2	Cyclohexane
Alt3	Cyclobutane
Alt4	Cyclopropane

39	Which of the following compound would not evolve CO2 when treated with NaHCO3 solution?
Alt1	phenol
Alt2	4-nitro benzoic acid
Alt3	salicylic acid
Alt4	benzoic acid

40	A ball of mass (m) 0.5 kg is attached to the end of a string having length (L) 0.5 m. The ball is rotated on a horizontal circular path about vertical axis. The maximum tension that the string can bear is 324 N(Newton). The maximum possible value of angular velocity of ball (in radian/s) is:-
Alt1	9
Alt2	27
Alt3	18
Alt4	36

41	What is the nature of glucose-glucose linkage in starch that makes it so susceptible to acid hydrolysis?
Alt1	Starch is hemiacetal
Alt2	Starch is acetal
Alt3	Starch is polymer
Alt4	Starch contains only few molecules of glucose

42	Dissolving 120 g of urea (molecular weight. 60) in 1000 g of water gave a solution of density 1.15 g/ml. The molarity (M) of the solution is:-
Alt1	2.05 M
Alt2	1.78 M
Alt3	2.22 M
Alt4	2.00 M

43	A police car with a siren of frequency 8 kHz is moving with uniform velocity 36 km/hr towards a tall building which reflects the sound waves. The speed of sound in air is 320 m/s.The frequency of the siren heard by the car driver is:-
Alt1	8.25 kHz
Alt2	7.50 kHZ
Alt3	8.50 kHz
Alt4	7.75 kHz

44	Where is Dead Sea situated in the following continents?
Alt1	Africa
Alt2	Europe
Alt3	Australia

	Alt4	Asia

45	The surface of discontinuity between older folded sedimentary strata and younger horizontal strata is known as:-
Alt1	parallel unconformity
Alt2	nonconformity
Alt3	disconformity
Alt4	angular unconformity

46	A meter bridge is set up as shown, to determine an unknown resistance 'X' using a standard 10 ohm resistor. The galvanometer shows null point when tapping-key is at 52 cm mark. The end-corrections are 1 cm and 2 cm respectively for the ends A and B. The determined value of 'X' is B 10Ωv A X:-
Alt1	10.6 ohm
Alt2	10.8 ohm
Alt3	11.1 ohm
Alt4	10.2 ohm

47	Rocks that consist entirely of glassy material are refered to as:-
Alt1	Hemicrystalline
Alt2	Hypocrystalline
Alt3	Merocrystalline
Alt4	Halohyline

48	Which of the following features is not associated with Karst Topography?
Alt1	Potholes
Alt2	Stalactitile
Alt3	Blind valley
Alt4	Dolines

49	Which of the following name is given to the planetary winds blowing between the tropics?
Alt1	Trade winds
Alt2	Westerlies
Alt3	Polar winds
Alt4	Monsoon

50	A gaseous mixture was prepared by taking equal mole of CO and N2 If the total pressure of the mixture was found 1 atmosphere, the partial pressure of the nitrogen (N2) in the mixture is:-
Alt1	0.9 atm
Alt2	0.8 atm
Alt3	1 atm
Alt4	0.5 atm

51	When a rifle is fired it recoils so both the bullet and rifle are set in motion. The rifle and bullet ideally acquire equal:-
Alt1	but opposite amounts of momentum.
Alt2	amounts of kinetic energy.

Alt3	both of these.
Alt4	none of these

52	The term Isostasy is given by:-
Alt1	Pratt
Alt2	Dutton
Alt3	Heiskenin
Alt4	Airy

53	The age of the earth is:-
Alt1	2 million years
Alt2	10.5 billion years
Alt3	4.5 billion years
Alt4	7.5 billion years

54	The wavelength of the first spectral line in the Balmer series of hydrogen atom is 6561 A° (Angstrom Unit). The wavelength of the second spectral line in the Balmer series of singly - ionized helium atom is:-
Alt1	2430 A°
Alt2	4687 A°
Alt3	1640 A°
Alt4	1215 A°

55	Which of the following cities is not located on Varanasi-Chennai rail-route?
Alt1	Hyderabad
Alt2	Allahabad
Alt3	Nagpur
Alt4	Jabalpur

56	Resisting a change in motion is called:-
Alt1	Acceleration
Alt2	Rotation
Alt3	Inertia
Alt4	Revolution

57	The most suitable radioactive method for dating Holocene events is:-
Alt1	C-14
Alt2	U~Pb
Alt3	Rb~Sr
Alt4	Sm~Nd

58	This of the following does not form a good aquifer:-
Alt1	Jointed basalt
Alt2	Tills
Alt3	Sandstone
Alt4	Massive granite

59	An ox-bow lake is formed in:-
Alt1	Old stage of river
Alt2	Young stage of river
Alt3	Middle stage of river
Alt4	None of these

60	A ligand can also be regarded as:-
Alt1	Lewis base
Alt2	Bronsted base
Alt3	Lewis acid
Alt4	Bronsted acid

61	Extra pure N2 can be obtained by heating:-
Alt1	(NH4)2Cr2O7
Alt2	NH4NO3
Alt3	Ba(N3)2
Alt4	NH3 with CuO

62	Plate tectonic concepts demonstrates that Indian plate is moving towards:-
Alt1	North
Alt2	South
Alt3	East
Alt4	West

63	Acidified sodium fusion extract on addition of ferric chloride solution gives blood red coloration which confirms the presence of:-
Alt1	S and Cl
Alt2	N and S
Alt3	S
Alt4	N

64	When a mixture of calcium benzoate and calcium acetate is dry distilled, the resulting compound is:-
Alt1	Benzophenone
Alt2	Benzaldehyde
Alt3	Acetophenone
Alt4	Acetaldehyde

65	Among the following compounds, the most acidic is:-
Alt1	o-hydroxybenzoic acid
Alt2	p-nitrophenol
Alt3	p-toluic acid
Alt4	p-hydroxybenzoic acid

66	No work is done by gravity on a bowling ball that rolls along a bowling alley because:-
Alt1	the force on the ball is at right angles to the ball's motion.
Alt2	no distance is covered by the ball.

Alt3	no potential energy is being converted to kinetic energy
Alt4	no force acts on the ball.

67	When it is 6.00 AM on 0° meridian, at the same time what time would be there in India?
Alt1	11.30 AM
Alt2	5.30 AM
Alt3	9.30 AM
Alt4	6.30 AM

68	Geometrical shapes of the complexes formed by the reaction of Ni2+ with Cl-, CN- and H2O, respectively, are:-
Alt1	square planar, tetrahedral and octahedra
Alt2	octahedral, tetrahedral and square planar
Alt3	tetrahedral, square planar and octahedral
Alt4	octahedral, square planar and octahedral

69	Three capacitors with different capacitances are connected in series. Which of the following statements is TRUE?
Alt1	The capacitance of the system depends on the voltage applied across the three capacitors.
Alt2	The magnitude of the charge is the same on all of the capacitor plates.
Alt3	All three of the capacitors have the same potential difference between their plates.
Alt4	None of these

70	A block of metal which weighs 60 Newtons in air and 40 Newtons under water has a density, in kilograms per meter cubed, of:-
Alt1	5000
Alt2	1000
Alt3	3000
Alt4	7000

71	Rainbearing clouds are:-
Alt1	Nimbus
Alt2	Cirrus
Alt3	Stratus
Alt4	Cumulonimbus

72	An infinitely long wire carries a current of three amps. The magnetic field outside the wire:-
Alt1	points radially inward
Alt2	is zero
Alt3	circles the wire
Alt4	points radially away from the wire

73	A copper rod which is 1 centimeter in diameter carries a current of 5 amps. The current is distributed uniformly throughout the rod. The magnetic field half way between the axis of the rod and its outside edge is:-
Alt1	pointing radially inward
Alt2	pointing radially outward

Alt3	zero.
Alt4	circles the axis of the rod

74	If the distance between two objects, each of mass 'M', is tripled, the force of attraction between the two objects is:-
Alt1	unchanged
Alt2	1/2 the original force
Alt3	1/9 the original force
Alt4	1/3 the original force

75	The Eastern Ghats hill ranges are:-
Alt1	folded mountains
Alt2	block mountains
Alt3	dome mountains
Alt4	volcanic mountains

76	Which of the following is the deepest lake?
Alt1	Caspian Sea
Alt2	Lake Victoria
Alt3	Lake Baikal
Alt4	Lake Superior

77	The high quality of coal is:-
Alt1	Lignite
Alt2	Anthracite
Alt3	Bituminous
Alt4	Peat

78	The collision between a photon and a free electron was first explained by which of the following scientists?
Alt1	Compton
Alt2	Einstein
Alt3	Bohr
Alt4	Heisenberg

79	A 10 kilogram mass rests on a horizontal frictionless surface. A horizontal force of 5Newtons is applied to the mass. After the force has been applied for 1 second, the velocity of the mass is:-
Alt1	50 meters per second
Alt2	0.5 meters per second
Alt3	10 meters per second
Alt4	5 meters per second

80	Air pollution causes:-
Alt1	Fever
Alt2	Hearing problem
Alt3	Cancer
Alt4	Asthma

81	Five Coulombs of charge are placed on a thin-walled conducting shell. Once the charge has come to rest, the electric potential inside the hollow conducting shell is found to be:-
Alt1	varying as one over r squared
Alt2	zero
Alt3	smaller than the electric potential outside the sphere
Alt4	uniform inside the sphere and equal to the electric potential on the surface of the sphere

82	The Tesla and the Gauss are units of measure of:-
Alt1	magnetic flux
Alt2	magnetic field strength
Alt3	electrical current
Alt4	conductance

83	A constant potential difference is applied across the plates of a parallel-plate capacitor. Neglecting any edge effects, the electric field inside the capacitor is-
Alt1	zero
Alt2	constant
Alt3	decreasing as one moves from the positive to the negative plate
Alt4	varying as one over r squared

84	One of Geology's greatest contributions to human thought is:-
Alt1	the recognition of the long span of time involved in Earth history
Alt2	the recognition that the Earth is the center of the solar system
Alt3	the realization that the world is round
Alt4	the realization that the sun not the Earth is the center of the solar system

85	Metamorphic rocks are changed rocks. Which of the following rock types could be the "parent" of a metamorphic rock?
Alt1	Igneous
Alt2	Metamorphic
Alt3	Sedimentary
Alt4	Sedimentary, Igneous and metamorphic

86	Earth is composed of:-
Alt1	Crust only
Alt2	Crust, Mantle and Core
Alt3	Crust and Core
Alt4	Crust and Mantle

87	Sea Waves are caused by:-
Alt1	Wind
Alt2	Temperature
Alt3	Pressure
Alt4	Currents

88	The shape of the earth is:-

Alt1	Oblate spheroid
Alt2	Ellipse
Alt3	Sphere
Alt4	Circle

89	Hot Spots are known for:-
Alt1	Tornado
Alt2	Landslides
Alt3	Seismicity
Alt4	Flood

90	Fossils are:-
Alt1	Wood
Alt2	Preserved harder parts of dead one
Alt3	Living organism
Alt4	Dead organism

91	Landslide occurs due to:-
Alt1	Gravity
Alt2	Unstable slope, heavy rain and gravity
Alt3	Heap of sediments
Alt4	Stable slope

92	Black smoker emits in the sea:-
Alt1	Sulphides
Alt2	Methane
Alt3	Oxygen
Alt4	CO_2

93	Himalayas are formed by the collision of:-
Alt1	Indian and African plates
Alt2	Indian and Tibetan plates
Alt3	Indian and Australian plates
Alt4	Indian and Pacific plates

94	Dunes mostly are seen in:-
Alt1	Poles
Alt2	Deserts
Alt3	Cold places
Alt4	Hilly places

95	The phenomenon of unstable atom changing into stable atom by giving of radiation is called:-
Alt1	Emission
Alt2	Thermal radiation
Alt3	Bombardment
Alt4	Radioactivity

96	Which one of the following statements correctly defines the term transhumance?
Alt1	Practice of growing crops on higher hill slopes in summer and foothills in winter
Alt2	Seasonal migration of people with their animals up and down the mountains
Alt3	Economy that solely depends upon animals
Alt4	Farming in which only one crop is cultivated by clearing hill slopes

97	Approximately how long ago did the Big Bang take place?
Alt1	100-150 million years ago
Alt2	10-15 million years ago
Alt3	10-15 thousand years ago
Alt4	10-15 billion years ago

98	Ice age was:-
Alt1	Cambrian period
Alt2	Crataceous period
Alt3	Pleistocene period
Alt4	Miocene period

99	The barriers that can prevent small farmers in many nations from participating in the green revolution include:-
Alt1	small size of farms
Alt2	money for investment
Alt3	education
Alt4	money for investment, education and small size of farms

100	Crator lake is formed by:-
Alt1	Glacier
Alt2	Landslide
Alt3	Earthquake
Alt4	Volcano

Examination: **M.Sc. Disaster Management studies**

Section 1 - Section 1

Question No.1	4.00

Bookmark ☐

Fertility of soil can be improved by
- ○ Removing living earthworms and Adding dead earthworms
- ○ Adding dead earthworms
- ○ Removing dead earthworms
- ○ Adding living earthworms

Question No.2	4.00

Bookmark ☐

The resistance of an ideal voltmeter is
- ○ Zero
- ○ Very High
- ○ Very Low
- ○ Infinite

Question No.3	4.00

Bookmark ☐

A two digit number is three times the sum of its digits. If 45 is added to it, the digits are reversed. The number is
- ○ 27
- ○ 32
- ○ 31
- ○ 35

Question No.4	4.00

Bookmark ☐

How many number of native indigenous Indian botanical species were found only in India?
- ○ 91,000
- ○ 3,500
- ○ 15,000
- ○ 45,000

Question No.5	4.00

Bookmark ☐

This is a passive remote sensing technique
- ○ SLAR
- ○ SAR
- ○ LiDAR
- ○ MSS

Question No.6	4.00

Bookmark ☐

The estimated age of the universe is
- ○ 25.7 billion years
- ○ 4.56 billion years
- ○ 10.1 billion years
- ○ 13.5 billion years

Question No.7   4.00

Bookmark ☑

If 5 men or 8 boys can do a work in 84 days. In how many days can 10 men and 5 boys can do the same work?

- ○ 35
- ○ 32
- ○ 25
- ○ 28

Question No.8   4.00

Bookmark ☐

In Eskola's ACF diagram 'F' represents:
- ○ FeO+MgO+MnO+CaCO3
- ○ FeO
- ○ FeO+MgO+MnO
- ○ FeO+MgO

Question No.9   4.00

Bookmark ☐

The nuclear reaction in which a heavy nucleus splits into two nuclei of nearly equal mass is called
- ○ Nuclear reaction
- ○ Nuclear fission
- ○ Nuclear fusion
- ○ Fast breeding

Question No.10   4.00

Bookmark ☐

The concentration of a $MgSO_4$ solution having the same ionic strength as that of a 0.1M Na_2SO_4 solution is
- ○ 0.133 M
- ○ 0.067 M
- ○ 0.05 M
- ○ 0.075 M

Question No.11   4.00

Bookmark ☐

Solar, wind, tidal, geothermal, biogas, atomic energy, etc are the examples of ....
- ○ Conventional
- ○ Non-Conventional
- ○ Non-Ferrous
- ○ Ferrous

Question No.12   4.00

Bookmark ☐

Since the _____ of the motor car, road accidents have increased dramatically.
- ○ inauguration
- ○ inception
- ○ advent
- ○ initiation

Question No.13 4.00

Bookmark ☐

Which of the following is the highest plateau in the world
- ○ Pamir plateau
- ○ Colorado Plateau
- ○ Potwar Plateau
- ○ patagonia plateau

Question No.14 4.00

Bookmark ☐

Folds which exhibit a constant profile are termed as
- ○ Curvilinear folds
- ○ Cylindrical folds
- ○ Concentric folds
- ○ Concertina folds

Question No.15 4.00

Bookmark ☐

The thickest cross beddings are more often found in
- ○ Alluvial deposits
- ○ lake deposits
- ○ Aeolian deposits
- ○ Glacial deposits

Question No.16 4.00

Bookmark ☐

Permanent secretariat of the SAARC is located at
- ○ India
- ○ Lahore
- ○ Dhaka
- ○ Kathmandu

Question No.17 4.00

Bookmark ☐

Placer deposits at the foot of a slope are known as
- ○ Alluvial placers
- ○ Eolian placers
- ○ Eluvial placers
- ○ Beach placers

Question No.18 4.00

Bookmark ☑

For regional mapping in geology the suitable scale is
- ○ 1:45,000
- ○ 1:90,000
- ○ 1:30,000
- ○ 1:60,000

Question No.19 4.00

Bookmark ☐

In inverse slope method of interpretation of data the electrode spacing is plotted against

- ○ V/I
- ○ P/p_a
- ○ M/N
- ○ a/p_a

Question No.20 4.00

Bookmark ☐

The gateway to Gulf of Iran is

- ○ Middle strait
- ○ Malaca strait
- ○ Persian Gulf
- ○ Strait of Hormuz

Question No.21 4.00

Bookmark ☐

Which country is the largest producer of Mica in the world

- ○ China
- ○ Australiya
- ○ America
- ○ India

Question No.22 4.00

Bookmark ☐

Relatively small topographic features of the deep ocean floor ranging from 600 to 1000m high and a few km wide is

- ○ MOR
- ○ Continental slope
- ○ Abyssal plain
- ○ Abyssal hills

Question No.23 4.00

Bookmark ☐

Which state has lowest population density in India?

- ○ J&K
- ○ Rajasthan
- ○ Nagaland
- ○ Arunachal Pradesh

Question No.24 4.00

Bookmark ☐

Considering sea transport, GPS stands for

- ○ German Placement Systems
- ○ Greenwich Placement Systems
- ○ Global Placement Systems
- ○ Global Positioning Systems

Question No.25   4.00

Bookmark ☐

The concept of _____ has been extensively applied to studies such as climatic classification, aridity, humidity and drought

- ○ PET and Temperature
- ○ Temperature and humidity
- ○ PET and water balance
- ○ water balance and rainfall

Question No.26   4.00

Bookmark ☐

Statement: "A Car is required on rent"-An Advertisement
Assumptions:
I. All types of Vehicles are available on Rent
II. People will respond to the advertisements

- ○ If only assumption I is implicit
- ○ If neither I nor II is implicit
- ○ If only assumption II is implicit
- ○ If both I and II are implicit

Question No.27   4.00

Bookmark ☐

Highest peak in sahyadris is

- ○ Dotabetta
- ○ Kanchan junga
- ○ Kalsubai
- ○ Mount Abu

Question No.28   4.00

Bookmark ☐

Natural cause for biodiversity loss

- ○ exploitation
- ○ drought
- ○ agriculture
- ○ tourism

Question No.29   4.00

Bookmark ☐

Gibberellic acid (GA) controls seed germination by directing breakdown of the stored starch. In which one of the following tissues of the barley seed, - amylase gene is induced in response to GA?

- ○ Coleoptile
- ○ Embryo
- ○ Aleurone layer
- ○ Endosperm

Question No.30   4.00

Bookmark ☐

The term jokullhlaups refers to

- ○ earthquake induced flash flood
- ○ warm current in poles
- ○ Volcano
- ○ enormous volume of water beneath ice

Question No.31   4.00

Bookmark ☐

This is an ore of gold
- ○ Cassiterite
- ○ Chinnabar
- ○ Sphalerite
- ○ Calaverite

Question No.32   4.00

Bookmark ☐

A sloping area which lies between shoreline and continental slope is known as
- ○ trenches
- ○ continental rise
- ○ abyssal plane
- ○ continental shelf

Question No.33   4.00

Bookmark ☐

Which one is not the source of geographic information
- ○ Rock Samples collected from the moon
- ○ ancient epics
- ○ old maps
- ○ Travellers record

Question No.34   4.00

Bookmark ☐

Orthoclase is decomposed and converted into kaoline undder the process of
- ○ Hydrolysis
- ○ Hydration
- ○ Carbonation
- ○ both (b) and (c)

Question No.35   4.00

Bookmark ☐

Which one of the following can be analysed using Surface Plasmon Resonance method?
- ○ Label-free bimolecular interaction.
- ○ Protein structure.
- ○ Radiolabelled DNA probes.
- ○ Optical density of a solution.

Question No.36   4.00

Bookmark ☐

From the following cartographer, world map was first prepared by whome
- ○ Ertosthanis
- ○ ptalami
- ○ Megasthanes
- ○ Al etrik

Question No.37   4.00

Bookmark ☐

From which part of the coconut coir is obtained?

- ○ Pericarp
- ○ Epicarp
- ○ Endocarp
- ○ Mesocarp

Question No.38   4.00

Bookmark ☐

Choose the correct meaning of the italicized idiom.
You cannot throw *dust into my eyes.*

- ○ Cheat me
- ○ Terrify me
- ○ Hurt me
- ○ Abuse me

Question No.39   4.00

Bookmark ☐

World's largest producer of jute is

- ○ Pakistan
- ○ Bangladesh
- ○ India
- ○ Burma

Question No.40   4.00

Bookmark ☐

Flat- toped bills or small mountains formed by stream are called

- ○ Buttes
- ○ Cuestas
- ○ Stream terraces
- ○ Mesa

Question No.41   4.00

Bookmark ☐

Tsunami cannot be generated due to

- ○ Earthquake
- ○ solifluction
- ○ Glacier break off
- ○ volcano

Question No.42   4.00

Bookmark ☐

Choose the best synonym of the italicized word. The prisoners of war signed the document under *coercion.*

- ○ supervision
- ○ security
- ○ confusion
- ○ compulsion

Question No.43   4.00
Bookmark ☐

Study the following information carefully and answer the question below it

(i) There is a group of five persons- A, B, C, D and E
(ii) One of them is manual scavenger, one is sweeper, one is watchman, one is human scarecrow and one is grave-digger
(iii) Three of them – A, C and grave-digger prefer tea to coffee and two of them – B and the watchman prefer coffee to tea
(iv) The human scarecrow and D and A are friends to one another but two of these prefer coffee to tea.
(v) The manual scavenger is C's brother

Who is a manual scavenger?

- ○ B
- ○ A
- ○ C
- ○ D

Question No.44   4.00
Bookmark ☐

Choose the correct meaning of the italicized idiom.
Those who work by *fits and start* seldom show good results.

- ○ Rarely
- ○ Disinterestedly
- ○ Irregularly
- ○ Regularly

Question No.45   4.00
Bookmark ☐

Choose the missing term : AZ, GT, MN, ?, YB

- ○ SH
- ○ KE
- ○ TS
- ○ SX

Question No.46   4.00
Bookmark ☐

Neomycin phosphortransferase gene, frequently used as a selection marker during plant trans-formation, inactivates which one of the following antibiotics?

- ○ Hygromycin
- ○ Streptomycin
- ○ Ampicillin
- ○ Kanamycin

Question No.47   4.00
Bookmark ☐

A diabetic patient developed metabolic acidosis resulting in deep and rapid breathing which is called-

- ○ Cheyne-Stokes respiratory pattern
- ○ Periodic breathing
- ○ Kussmaul breathing
- ○ Apneustic breathing

Question No.48 4.00

Bookmark ☐

TIN can be created using
- ○ Satellite image
- ○ Aerial photos
- ○ river network
- ○ Spot heights

Question No.49 4.00

Bookmark ☐

If in a certain language, GRASP is coded as BMVNK, which word would be coded as CRANE?
- ○ XMVIZ
- ○ FUDQH
- ○ BQZMD
- ○ HWFSJ

Question No.50 4.00

Bookmark ☐

What is the distance to the epicenter of an earthquake if travel time for the P-wave is 4 minutes
- ○ 2.0×10^3 km
- ○ 1.0×10^3 km
- ○ 12.80×10^3 km
- ○ 2.6×10^3 km

Question No.51 4.00

Bookmark ☐

What is the maximum concentration of ozone in the ozone layer
- ○ 0.2 ppm
- ○ 0.5 ppm
- ○ 0.8 ppm
- ○ 0.1 ppm

Question No.52 4.00

Bookmark ☐

Flood amount to ------ of the World disaster by natural hazard
- ○ 45%
- ○ 30%
- ○ 50%
- ○ 32%

Question No.53 4.00

Bookmark ☐

If A+B means A is daughter of B,
A-B means A is husband of B
A × B means A is brother of B

From the statement P – Q + R × S, how is Q related to S?

- ○ Niece
- ○ Sister
- ○ Mother
- ○ None of these

Question No.54   4.00
Bookmark ☐

Study the following information carefully and answer the question below it:

Aasha, Bhuvnesh,Charan, Danesh, Ekta, Farhan, Ganesh and Himesh are sitting around a circle, facing the centre. Aasha sits fourth to the right of Himesh while second to the left of Farhan. Charan is not the neighbour of Farhan and Bhuvnesh. Danesh sits third to the right of Charan. Himesh never sits next to Ganesh.

Who among the following sits between Ganesh and Danesh?

- ○ Charan
- ○ Aasha
- ○ Bhuvnesh
- ○ Ekta

Question No.55   4.00
Bookmark ☐

Which of the following does not result from the lateral movements of rock debris

- ○ Spreading
- ○ Sackueng
- ○ Solifluction
- ○ Cambering

Question No.56   4.00
Bookmark ☐

During the northern hemispheric winter, the $-16°C$ isotherm reaches its lowest latitude over

- ○ Sri Lanka
- ○ Canada
- ○ Northern Siberia
- ○ Tibet

Question No.57   4.00
Bookmark ☐

This is used as a refractory

- ○ kyanite
- ○ sillimanite
- ○ Mullite
- ○ andalusite

Question No.58   4.00
Bookmark ☑

- ○ 10
- ○ 9
- ○ 11
- ○ 12

Question No.59   4.00

Bookmark ☐

Olympus Mons, the tallest mountain in the Solar System is found in

○ Mars

○ Venus

○ Jupiter

○ Earth

Question No.60   4.00

Bookmark ☐

In sea anemone, the symmetry is

○ Bilateral

○ radial

○ Absent

○ Spherical

Question No.61   4.00

Bookmark ☐

Choose the best antonym of the italicized word.
Many snakes are actually *innocuous.*

○ harmful

○ poisonous

○ ferocious

○ deadly

Question No.62   4.00

Bookmark ☐

Banded Iron Formations occur predominantly in the greenstone belts of the DharwarCraton, such as
Bababudan. Based on this, the correct inference is:

○ proliferation of blue green algae occurred at around 2400 Ma ago.

○ proliferation of blue green algae occurred at around 2700 Ma ago.

○ continental weathering started 2700 Ma ago.

○ continental weathering started 3300 Ma ago.

Question No.63   4.00

Bookmark ☐

.................is the largest producer of bauxite in the world.

○ South America

○ Australia

○ NorthAmerica

○ Africa

Question No.64   4.00

Bookmark ☐

Where is most of the World's fresh water located?

○ artificial reservoirs

○ aquifer

○ glaciers and ice sheets

○ lakes and rivers

Question No.65   4.00
Bookmark ☐

Alveolar cells of the lung arise from which one of the following layer(s)?

- ○ Ectoderm
- ○ Endoderm
- ○ Mesoderm
- ○ Both ectoderm and endoderm

Question No.66   4.00
Bookmark ☐

which one of the following is not an approach in human geography

- ○ Spatial organisation
- ○ Quantitative revolution
- ○ exploraation and discription
- ○ Areal differentiation

Question No.67   4.00
Bookmark ☐

Vessels and companion cells are found in

- ○ Bryophytes
- ○ Pteridophytes
- ○ thallophytes
- ○ Angiosperms

Question No.68   4.00
Bookmark ☐

The term lahar associated with

- ○ storm
- ○ earthquake
- ○ drought
- ○ volcano

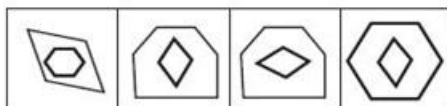## Question No.69   4.00
Bookmark ☐

- ○ 1
- ○ 2
- ○ 4
- ○ 3

Question No.70   4.00

Bookmark ☐

Antidunes are formed due to
- ○ downstream motion of the sediments with the current flow
- ○ downstream motion of sediments against the current flow
- ○ very high velocity of the current flow
- ○ upstream motion of sediments against the current flow

Question No.71   4.00

Bookmark ☐

Which one of the following is a leading producer of copper in the world?
- ○ Ghana
- ○ Boloivia
- ○ Zimbabwe
- ○ Chile

Question No.72   4.00

Bookmark ☐

Niagara water Falls is in which of the following country
- ○ USA
- ○ Australia
- ○ South Africa
- ○ U.K

Question No.73   4.00

Bookmark ☐

Water covers about what percentage of earth's surface?
- ○ 67
- ○ 71
- ○ 53
- ○ 62

Question No.74   4.00

Bookmark ☐

The agents of metamorphism are
- ○ Pressure and chemical fluids
- ○ Temperature and chemical fluids
- ○ Pressure and temperature
- ○ Pressure, Temperature and chemical fluids

Question No.75   4.00

Bookmark ☐

Choose the best antonym of the italicized word.
There are four chapters that are *extraneous* to the structure of the book.
- ○ needful
- ○ relevant
- ○ integral
- ○ important

Question No.76 4.00

Bookmark ☐

Which of the countries consumes more fish than any other country in the world?

- ○ France
- ○ Great Britain
- ○ China
- ○ japan

Question No.77 4.00

Bookmark ☐

Which one of the following plant hormones use the two-component histidine kinase receptor system for signal transduction?

- ○ Gibberellin
- ○ Abscisic acid
- ○ Cytokinin
- ○ Auxin

Question No.78 4.00

Bookmark ☐

Based on the information given answer the following question.
1. In a family of six persons, there are people from three generations. Each has separate professions and they like different colours. There are two couples.
2. Shyam is an Engineer and his wife is not a doctor and she does not like Red colour.
3. Chartered Accountant likes green colour and his wife is a teacher.
4. Manisha is the mother-in-law of Sunita and she likes orange colour.
5. Vimal is the grand father of Tarun and tarun is the Principal and likes black colour.
6. Nyna is the grand daughter of Manisha and she likes blue colour. Nyna's Mother likes white colour.

Which of the following is the correct pair of two couples?

- ○ Tarun-Nyna, Shyam-Sunita
- ○ Shyam-Manisha, Vimal-Sunita
- ○ Cannot be determined
- ○ Shyam-Sunita, Vimal-Manisha

Question No.79 4.00

Bookmark ☐

These boys need some new books, _____?

- ○ is it?
- ○ don't they?
- ○ isn't it?
- ○ do they?

Question No.80 4.00

Bookmark ☐

The oil field of Naharkatia is in the state of

- ○ Arunachal Predesh
- ○ Sikkim
- ○ Assam
- ○ Manipur

Question No.81   4.00

Bookmark ☐

Submarine mountains rising above 1000 m from ocean floor are known as
- ○ Abysel plains
- ○ Guyots
- ○ submarine ridges
- ○ Sea mounts

Question No.82   4.00

Bookmark ☐

Organic waste such as dead plant and animal material, animal dung and kitchen waste can be converted into a gaseous fuel called ....
- ○ Natural gas
- ○ LPG
- ○ Biogas
- ○ CNG

Question No.83   4.00

Bookmark ☐

Application of gene therapy in clinical trials did NOT succeed due to
- ○ lack of expression of integrated gene in cells
- ○ poor integration of a gene in the host genome
- ○ degradation of gene inside the cell
- ○ activation of oncogenes consequent to integration of the gene

Question No.84   4.00

Bookmark ☐

Fresh water accounts for only _____ percent.
- ○ 3.7
- ○ 4.7
- ○ 1.7
- ○ 2.7

Question No.85   4.00

Bookmark ☐

In whittaker's system of classification, prokaryotes belong to the kingdom
- ○ animalia
- ○ Monera
- ○ Protista
- ○ Fungi

Question No.86   4.00

Bookmark ☐

If the Earth is rotated from east to west instead of west to east, which one of the following is likely to change?
- ○ Direction of Coriolis deflection
- ○ Magnitude of Coriolis force
- ○ Seasonal migration of ITCZ
- ○ Distribution of high and low pressure belts

Question No.87   4.00

Bookmark ☐

Statements: All tools are books, Some books are pens.
Conclusion:
I. Some tools are pen
II. Some pens are books

    ○ If only conclusion I follows

    ○ If either I or II follows

    ○ If neither I nor II follows

    ○ If only conclusion II follows

Question No.88   4.00

Bookmark ☐

.... is the largest producer and exporter of mica in the world.

    ○ India

    ○ America

    ○ Brazil

    ○ Antarctica

Question No.89   4.00

Bookmark ☐

Bones of vertebrates are derived from embryonic

    ○ Epiderm

    ○ Ectoderm

    ○ Mesoderm

    ○ Endoderm

Question No.90   4.00

Bookmark ☐

In recent times, the number of cases of death by poisoning _____ sharply.

    ○ has increased

    ○ increased

    ○ had increased

    ○ have increased

Question No.91   4.00

Bookmark ☐

The relationship between the period of revolution of the planets around the Sun and their distance
from the Sun is given by

    ○ Hubble's Law

    ○ Kepler's Law

    ○ Newton's Law

    ○ Bode's Law

Question No.92   4.00

Bookmark ☐

Kimberlite is a variety of

    ○ Dunite

    ○ Syenite

    ○ Peridotite

    ○ Pyroxinite

Question No.93   4.00
Bookmark ☐

Increasing force tends to _____ while increasing mass tends to _____

- ○ Increase acceleration,increase acceleration
- ○ Decrease acceleration, decrease acceleration
- ○ Increase acceleration,decrease acceleration
- ○ Decrease acceleration,increase acceleration

Question No.94   4.00
Bookmark ☐

The average end-to-end distance of a random coil polymer of 106 monomers (in units of segment length) is

- ○ 10^5
- ○ 10^6
- ○ 10^3
- ○ 10^4

Question No.95   4.00
Bookmark ☐

A researcher wants to obtain complete chemical information, i.e., head groups and fatty acids of phospholipids from liver tissues. Phospholipids have fatty acids of different lengths and unsaturation and also the head groups are of different chemistries. Which of the following combination of techniques would provide complete chemical description of phospholipids?

- ○ TLC and gas chromatography
- ○ Only paper chromatography
- ○ Only thin layer chromatography (TLC)
- ○ Paper and thin layer chromatography

Question No.96   4.00
Bookmark ☐

Which one of the following ocean currents is quite different from the rest?

- ○ Agulhas current
- ○ Peru current
- ○ Circum polar current
- ○ California current

Question No.97   4.00
Bookmark ☐

Which one of the following statemens doesnot describes geography?

- ○ study of the inter-relationship between humans and environment
- ○ not relevant in the present due to the development of technology
- ○ an integrative discipline
- ○ subjected to dualism

Question No.98   4.00
Bookmark ☐

In layover effect is severe if

- ○ slope is gentle
- ○ steeper incident angle
- ○ incident angle is gentle
- ○ slope is steeper

Question No.99 4.00

Bookmark ☐

A common decomposition in basaltic rock involve

- ○ Oxidation of Fe
- ○ Hydration of K
- ○ Hydration of Fe
- ○ Oxidation of Mg

Question No.100 4.00

Bookmark ☐

The major excretory product of anthropods is (E)

- ○ Urea
- ○ trimethylamine oxide
- ○ Ammonia
- ○ uric acid