

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 MgSO₄ solution having the same ionic strength as that of a 0.1M Na₂SO₄ 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 under 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-topped hills 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 phosphotransferase gene, frequently used as a selection marker during plant transformation, 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

Which number replaces the question mark?



- 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 Dharwar Craton, 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
- North America
- 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
- exploration 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

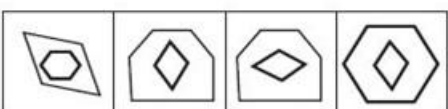
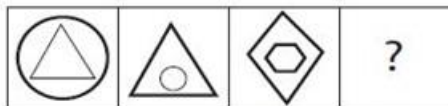
Bookmark

The term lahar associated with

- storm
- earthquake
- drought
- volcano

Question No.69

4.00

Bookmark 

(1) (2) (3) (4)

- 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 Pradesh
- Sikkim
- Assam
- Manipur

Question No.81

4.00

Bookmark

Submarine mountains rising above 1000 m from ocean floor are known as

- Abyssal 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 statements does not describe 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