

Section 1 - Section 1**Question No.1**

4.00

Bookmark

Identify the incorrect sequence

- Glucose→ Acetyl CoA→ butyryl CoA→ Gluconic Acid
- Glucose→ Acetyl CoA→ Acetic acid
- Glucose→ Acetyl CoA→ Acetoacetic Acid→ Acetone
- Glucose→ Acetyl CoA→ Acetoacetyl CoA→ Crotonyl CoA→ butyryl CoA→ butarealdehyde→ butanol

Question No.2

4.00

Bookmark

Two communities have the same mean temperature and rainfall but very different compositions and characteristics the best explanation for this phenomenon is that the two

- Are found at different altitudes
- Are composed of species that have very low dispersal rates
- Have a different range of temperatures & pattern of rainfall throughout the year
- Are found on different continents

Question No.3

4.00

Bookmark

Among the fresh water available in the earth the percentage of surface water is about

- 10%
- Less than 1%
- 45%
- 25%

Question No.4

4.00

Bookmark

Among Halogens, which of the following is having the most electronegative atom?

- Iodine
- Fluorine
- Bromine
- Chlorine

Question No.5

4.00

Bookmark

Based on the information given, answer the below question.

1. A,B,C,D,E and F are travelling in a bus.
2. There are two reporters, two mechanics, one photographer and one writer in the group.
3. Photographer A is married to D who is a reporter.
4. The writer is married to B who is of the same profession as that of F.
5. A,B,C,D are two married couples and no one in this belong to the same profession.
6. F is the brother of C.

How is C related to F?

- Cannot be determined
- Sister
- Brother
- Brother-in-law

Question No.6

4.00

Bookmark

Bombyx mori (silkworm) is a

- Oligophagus
- Monophagus
- Polyphagus
- Triphagous

Question No.7

4.00

Bookmark

Which of the following is correct? If we only achieve two out of three pillars of sustainable development?

- Social + Economic sustainability = Equitable
- Social + Environmental sustainability = Berable
- Economic + Environmental sustainability = Viable
- All of the above

Question No.8

4.00

Bookmark

Statements: Some bats are snakes, No snake is dangerous

Conclusion:

I. Some dangerous animals are snakes

II. Some bats are not dangerous.

- If neither I nor II follows
- If either I or II follows
- If only conclusion I follows
- If only conclusion II follows

Question No.9

4.00

Bookmark

Which of the following is not an example of REDOX REACTION

- $2K + F_2 \rightarrow 2KF$
- $Fe_2O_3 + 3CO \rightarrow 2Fe + 3CO_2$
- $BaCl_2 + H_2SO_4 \rightarrow BaSO_4 + 2 HCL$
- $CuO + H_2 \rightarrow Cu + H_2O$

Question No.10

4.00

Bookmark

The historic convention on biological diversity held in Rio de Janeiro in 1992 is known as

- The Earth Summit
- MAB program
- CITES convention
- G – 16 Summit

Question No.11

4.00

Bookmark

Habitat fragmentation leads to

- Loss of Biodiversity
- Loss of invasive species
- Gain of Biodiversity
- Loss of exotic species

Question No.12

4.00

Bookmark

Which greenhouse gas has least global warming potential in causing greenhouse effect?

- Nitrous oxide
- Ozone
- Carbon dioxide
- Methane

Question No.13

4.00

Bookmark

'Zero Emissions Day' is annually *observed on*

- 11th July
- 12th August
- 21st September
- 24th October

Question No.14

4.00

Bookmark

It takes eight hours for a 600 km journey, if 120 km is done by train and the rest by car. It takes 20 minutes more, if 200 km is done by train and the rest by car. The ratio of the speed of the train to that of the cars is:

- 3:4
- 1:2
- 1:4
- 2:3

Question No.15

4.00

Bookmark

For protecting and giving immediate relief to the person affected by accident due to handling of hazardous substance, the 'Factory labour safety act' is there. This was enacted in the year

- 2003
- 1985
- 1991
- 1972

Question No.16

4.00

Bookmark

The first of the major environmental protection act to be promulgated in India was

- Water act
- Noise pollution rule
- Environmental act
- Air act

Question No.17

4.00

Bookmark

A resource that forms at a much slower rate at which it is consumed is known as

- Non-renewable resources
- Renewable resources
- Natural resources
- Artificial resources

Question No.18

4.00

Bookmark

Phanerochaete chrysosporum, a lignin degrading and modifying enzyme is used in

- Textile industry
- Pharmaceutical industry
- Paper industry
- Tanneries

Question No.19

4.00

Bookmark

Choose the correct meaning of the italicized idiom.

Anil got me into trouble by giving a *false colour* to my statement.

- Giving a wrong character
- Giving a wrong colour box
- Colouring the sentence
- Giving good impression

Question No.20

4.00

Bookmark

Mapmakers use GIS to

- Store geographic information
- Use geographic information
- View geographic information
- All of the above

Question No.21

4.00

Bookmark

In a code language, 321 means "Hot Black Coffee", 536 means "Very Hot Summer", and 589 means "Summer and Winter". Which digit stands for "Very" ?

- 6
- 9
- 3
- 5

Question No.22

4.00

Bookmark

Earth Day is held every year on _____.

- April 22nd
- January 26th
- June 5th
- March 22nd

Question No.23

4.00

Bookmark

Resources that people use are concentrated on the

- Ocean water
- Earth
- Continental shelf
- Ocean shelf

Question No.24

4.00

Bookmark

In a competition between two species (1 and 2), what is true, when stable coexistence is achieved under the 'Lotka-volterra' Model?

- Species 1 limits species 2 more than it limits itself
- Species 1 and species 2 both limit themselves more than they limit each other
- Species 1 and species 2 both limit each other more than they limit themselves
- Species 2 limits species 1 more than it limits itself

Question No.25

4.00

Bookmark

The process of evaporation, transpiration and condensation is termed as

- Hydrological Cycle
- Food Chain
- Anthroposystem
- Carbon Cycle

Question No.26

4.00

Bookmark

Which among the following is having the specific energy content (in Megajoules/Kilogram)

- coal
- Methane
- Petrol
- Hydrogen

Question No.27

4.00

Bookmark

Which one of the following is a useful biological indicator of air pollution?

- Bryophytes
- Pseudomonas
- Lichens
- Algal blooms

Question No.28

4.00

Bookmark

The tundra biome gets little precipitation, but during the short summer season it is very wet, with many marshy areas, ponds and bogs. Why?

- The ground is so flat the water cannot run downhill
- Water cannot soak into the frozen ground
- It is flooded by melting snow from the surrounding mountains
- It does not rain much, but the tundra gets a lot of snow

Question No.29

4.00

Bookmark

The UN MDGs stands for what?

- United Nations Multiple Development Goals
- United Nations Millennium Development Grants
- United Nations Multiple Development Grants
- United Nations Millennium Development Goals

Question No.30

4.00

Bookmark

Find out the missing term:

1, 2, 3, 6, 11, 20, 37, 68, ?

- 105
- 125
- 126
- 124

Question No.31

4.00

Bookmark

A process started by an forest fire that reduces an already established ecosystem to a smaller population of species called

- Re-creation
- Replacement
- Secondary succession
- Rehabilitation

Question No.32

4.00

Bookmark

Disaster Management cycle has four phases. These are,

- Mitigation, awareness, rescue and recovery
- Mitigation, preparedness, response and recovery
- Mitigation, awareness, preparedness and response
- Preparedness, Response, rescue and relief

Question No.33

4.00

Bookmark

Aquarium is an example of

- Desert ecosystem
- Forest ecosystem
- Natural ecosystem
- Man-engineered ecosystem

Question No.34

4.00

Bookmark

'Praseodymium' and 'Yttrium' are the examples of

- Rare earth metals
- Deep oceanic currents
- High altitude endangered plant species
- Newly discovered allo-allergens

Question No.35

4.00

Bookmark

Vitamin B12 can be produced from Sugarcane juice using the microorganism

- Microbacterium ammoniaphilum*
- Pseudomonas denitrificans*
- Bacillus subtilis*
- Saccharomycetes cerevisidae*

Question No.36

4.00

Bookmark

Discrete probability distribution in which outcome is very small within a very small period of time is classified as,

- Posterior distribution
- Poisson distribution
- Cumulative distribution
- Normal distribution

Question No.37

4.00

Bookmark

Japanese encephalitis is caused by

- Mosquito and virus
- Parasitic worms and snails
- Trypanosoma
- Mosquito, pig, Wild birds and JEV

Question No.38

4.00

Bookmark

The biological decomposition of organic substances in controlled condition is known as _____.

- Pyrolysis
- Incineration
- Composting
- Landfills

Question No.39

4.00

Bookmark

Biodiversity _____

- Increases towards the equator
- Remains same throughout the planet
- Has no effect on change in latitude
- Decreases towards the equator

Question No.40

4.00

Bookmark

Good restaurants serving pure vegetarian food are very hard to _____.

- take to
- come by
- get in
- go through

Question No.41

4.00

Bookmark

Lake Eutrophication is due to excess of

- Sodium and potassium
- Calcium and magnesium
- Chlorides and fluorides
- Nitrates and phosphates

Question No.42

4.00

Bookmark

A species which is native to the region is known as.

- Endemic species
- Exotic species
- Rare species
- Alien species

Question No.43

4.00

Bookmark

WWF stands for

- World Wide Fund For Nature
- World Wide Fund For Soil
- World Wide Fund For Plants
- World Wide Fund For Animals

Question No.44

4.00

Bookmark

Identify the correct among the followings;

- a) The forest Conservation Act, 1952
- b) The Air (Prevention and Control of pollution) Act, 1981
- c) The water (Prevention and Control of pollution) Act, 1976

- a and b are correct, c is incorrect
- b and c are incorrect, a is correct
- a and c are incorrect, b is correct
- a and c are correct, b is incorrect

Question No.45

4.00

Bookmark

Color of ozone molecule is

- Pale green
- Pale yellow
- Blue
- White

Question No.46

4.00

Bookmark

Example of a bacterial pesticide is

- Bacillus thuringensis*
- Pseudomonas aeruginosa*
- Saccharomyces cerevisiae*
- Kluyveromyces fragilis*

Question No.47

4.00

Bookmark

Which kind of data does GIS deals with?

- Spatial data
- Binary data
- Numeric data
- Complex data

Question No.48

4.00

Bookmark

Choose the best synonym of the italicized word.

Each one of us is the subject of *derision* at some time or the other in our life.

- criticism
- laughter
- irony
- ridicule

Question No.49

4.00

Bookmark

Economically unproductive land is known as

- Wasteland
- Greenland
- Wetland
- Grassland

Question No.50

4.00

Bookmark

Choose the best antonym of the italicized word.

Ravi and Raghu are really *obstinate* men.

- compliant
- considerate
- understanding
- friendly

Question No.51

4.00

Bookmark

Increase in carbon dioxide concentration in atmosphere causes

- Rise in earth surface temperature
- Fall in earth surface temperature
- Increase in Ultraviolet rays
- Uniform earth surface temperature

Question No.52

4.00

Bookmark

The plant species which is an indicator of aquatic pollution.

- Hydrilla sp.
- Tridax species
- Eichornia sp.
- Eupatorium sp.

Question No.53

4.00

Bookmark

What effect will an invasive species have on the carrying capacity of an ecosystem?

- The carrying capacity for all animals will stay the same
- The carrying capacity will increase
- The carrying capacity for everyone will decrease
- The carrying capacity will only decrease for those in competition for same resource

Question No.54

4.00

Bookmark

Choose the correct meaning of the italicized idiom.
Sheela's work seems to be a *Penelope's web*.

- In her best form
- Declining
- Endless
- Difficult

Question No.55

4.00

Bookmark

Obtain the missing term.

300, 296, 287, 271, ?, 210

- 246
- 250
- 244
- None of the above

Question No.56

4.00

Bookmark

_____ is an International treaty to prevent species from becoming endangered or extinct because of international trade

- CMS
- CGIAR
- CITES
- The international treaty on plant genetic resources for food and agriculture

Question No.57

4.00

Bookmark

Van Mahotsav is celebrated for a week in the month of

- December
- July
- September
- March

Question No.58

4.00

Bookmark

The top three Windpower Electricity generating countries are

- USA, China and Spain
- UK, USA and China
- France, Canada and Germany
- UK, Germany and India

Question No.59

4.00

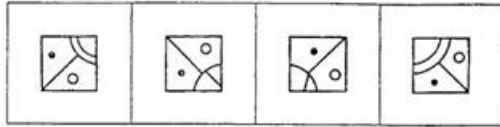
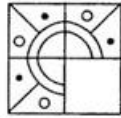
Bookmark

Neurological syndrome caused by severe mercuric poisoning is known as_____.

- Minamata disease
- Knock-Knee Disease
- Leukemia disease
- Itai-Itai Disease

Question No.60

4.00

Bookmark 

- (A) A
 D
 C
 B

Question No.61

4.00

Bookmark

Kyoto protocol is focused on

- Wetland conservation
 Biodiversity
 Ramsar convention
 Climate change

Question No.62

4.00

Bookmark

Planktons, if arranged according to body size, which of the following will be the correct sequence, if arranged in descending order?

- Macroplanktons → Megaplanktons → Microplanktons → Picoplanktons
 Megaplanktons → Macroplanktons → Nanoplanktons → Microplanktons
 Megaplanktons → Macroplanktons → Microplanktons → Nanoplanktons
 Nanoplanktons → Picoplanktons → Microplanktons → Macroplanktons

Question No.63

4.00

Bookmark

If an organism began with 10 individuals and went through 25 generation then how many individuals would be in the final generation?

- 6250
 3.4×10^7
 3.4
 3.4×10^8

Question No.64

4.00

Bookmark

In a life table, if $n_x = 800$, $n_0 = 1000$ and $d_x = 200$, what is l_x 200

- 0.8
 0.25
 4
 1.2

Question No.65

4.00

Bookmark

Who developed the holistic concept of communities

- H. A. Gleason
- J. H. Connell
- F. E. Clement
- G. F. Gause

Question No.66

4.00

Bookmark

Assertion: - India's president is appointed on a five-year term

Reason: -PratibhaPatil was appointed as India's first woman president in 2007

- Both A and R are true and R is the correct explanation of A
- Both A and R are true and R is not the correct explanation of A
- A is true but R is false
- A is false but R is true

Question No.67

4.00

Bookmark

Air pollution causing photochemical oxidation production include

- Ozone, peroxyacetyl nitrate aldehyde
- Oxygen, chlorine, fuming nitric acid
- Nitrous oxide, nitric acid fumes
- Carbon monoxide, Sulphur dioxide

Question No.68

4.00

Bookmark

ECOMARK Logo is a

- Green coloured earthen pot issued by BIS
- Green coloured circle within a square issued by CPCB
- Green coloured earthen pot issued by CPCB
- Green coloured circle within a square issued by BIS

Question No.69

4.00

Bookmark

Which among the following does not come under the objectives of "Goal for sustainable development"

- Zero hunger, quality education and climate action
- Affordable and clean energy, clean water and sanitation
- Taking care of life on land, life under water and extra-terrestrial life
- No poverty, good health and well being

Question No.70

4.00

Bookmark

Based on the given information, answer the following question.

1. Six friends P,Q,R,S,T and U are members of a club and play different games of Football, Cricket, Tennis, Basketball, Badminton and Volleyball
2. T who is taller than P and S plays Tennis.
3. The tallest among them plays Basketball.
4. The Shortest among them plays volleyball.
5. Q and S neither play Volleyball nor Basketball.
6. R plays Volleyball
7. T is between Q who plays Football and P in order of height

What does S Play?

- Cricket
- Badminton
- Either Cricket or Badminton
- None of the above

Question No.71

4.00

Bookmark

What is the permissible range of pH for drinking water as per Indian Standards?

- 6.5 to 8.5
- 6.5 to 9.5
- 6.0 to 9.0
- 6.0 to 8.0

Question No.72

4.00

Bookmark

Ramesh had a cold and couldn't go to the party, so I bought him a cake to make up for his _____

- disappointment
- depression
- disillusion
- disgust

Question No.73

4.00

Bookmark

Which natural hazard has resulted in the greatest monetary losses in a single event for the period of the time listed?

- Earthquake
- Flood
- Hurricane
- Fire

Question No.74

4.00

Bookmark

When two species attempt to use the same resource and there is not enough of the resource to satisfy both _____

- Exploitation competition
- Interspecific competition
- Interference competition
- Intraspecific competition

Question No.75

4.00

Bookmark

Study the following information carefully and answer the question below it

The Director of an MBA college has decided that six guest lectures on the topics of Motivation, Decision Making, Quality Circle, Assessment Centre, Leadership and Group Discussion are to be organised on each day from Monday to Sunday.

- (i) One day there will be no lecture (Saturday is not that day), just before that day Group Discussion will be organised.
- (ii) Motivation should be organised immediately after Assessment Centre.
- (iii) Quality Circle should be organised on Wednesday and should not be followed by Group Discussion
- (iv) Decision Making should be organised on Friday and there should be a gap of two days between Leadership and Group Discussion

How many lectures are organised between Motivation and Quality Circle?

- Three
- Four
- One
- Two

Question No.76

4.00

Bookmark

Under directive principle of state policy, in Article 48A of the constitution of India, for nature conservation, it is mentioned in explicit terms that

- The state is given the sole power to frame rules for protection and improvement of the environment and to safeguard wildlife and forests
- The state shall endeavour to protect and improve air, water, forest and wildlife of the country
- The state shall endeavour to protect and improve the environment and to safeguard the forest and wildlife of the country
- The state is bound to protect the forest and wildlife through declaration of national parks and sanctuaries.

Question No.77

4.00

Bookmark

_____ is a form of occupational lung disease caused by long-term exposure to coal dust.

- White Lung
- Black Lung
- Red Lung
- Green Lung

Question No.78

4.00

Bookmark

In binomial distribution formula for calculating standard distribution is,

- Square root of 'npq'
- Square root of 'np'
- Square root of 'p'
- Square root of 'pq'

Question No.79

4.00

Bookmark

Some Acacia trees have interaction with specific insect to protect it from other animals and insects

- Beetle
- Butterfly
- Ant
- Honey bee

Question No.80

4.00

Bookmark

dBLEq denotes

- Time weighted difference of sound on Scale A
- Time weighted sum of sound on Scale A
- Time weighted average of sound on Scale A
- Time weighted correlation of sound on Scale A

Question No.81

4.00

Bookmark

'Agenda-21' is an action plan for the 21st century. This was adopted in

- UNCED, 1992
- Kyoto Protocol, 1997
- UNCHE, 1972
- Copenhagen summit, 2009

Question No.82

4.00

Bookmark

What is common to Plastic Waste Management Rules, e-waste (Management) Rules and Bio-Medical Waste Management Rules?

- All were framed by the same ministry of GOI in 2017
- All the rules are components of disaster management Act, 2005
- All were adopted between 2003 to 2013
- All were adopted in the same year, i.e., 2016

Question No.83

4.00

Bookmark

Which of the following pesticide can cause terratogenic effects in man?

- Thiouracil
- Ethyl methane sulphonate
- Phenylmercuric acetate
- Vinyl chloride

Question No.84

4.00

Bookmark

Contaminated water that leaks from a landfill is called _____.

- Sewage
- Sludge
- Methane
- Leachate

Question No.85

4.00

Bookmark

Select the option which improves the underlined part of the sentences.

The Prime Minister called on the President.

- in
- No improvement
- by
- to

Question No.86

4.00

Bookmark

The first of the major environment protection act to be promulgated in India was

- Air Act
- Environmental Act
- Water Act
- Noise pollution rules

Question No.87

4.00

Bookmark

Identify the underlined part of speech:

Sorry, I don't know any foreign languages

- noun
- adjective
- pronoun
- adverb

Question No.88

4.00

Bookmark

The ecological study of a particular/individual species is known as

- Biocoenosis
- Synecology
- Phytocenosis
- Autecology

Question No.89

4.00

Bookmark

World Biodiversity day

- May-22
- Jun-5
- Jun-22
- May-21

Question No.90

4.00

Bookmark

Based on the UNESCO Man and the Biosphere program list of the 17 biosphere reserves in India are part of the world network of biosphere reserves

- Ten
- Five
- Seven
- Thirteen

Question No.91

4.00

Bookmark

ISO-14064 deals with

- Evaluation of environmental performance
- Environment labels and declarations
- Environment management systems
- GHG accounting and verification standards

Question No.92

4.00

Bookmark

Choose the correct meaning of the italicized idiom.

He had great difficulty to *save his bacon* when he was blackmailed.

- Put bacon in the refrigerator
- Threaten somebody
- Save pork
- Escape death

Question No.93

4.00

Bookmark

Conservation hotspots are best described as...

- Areas with large number of endemic species that are disappearing rapidly
- Islands that are experiencing high rates of extinction
- Areas where native species are being replaced with introduced species
- Areas where people are particularly active supporters of biological diversity

Question No.94

4.00

Bookmark

Relative humidity is calculated using which of the following variables?

- Dew point, temperature, evaporation rate and vapour pressure
- Saturation vapour pressure, temperature, vapour pressure and dew point
- Vapour pressure, saturation vapour pressure, wind velocity and dew point
- Vapour Pressure, Saturation vapour pressure, temperature and rainfall

Question No.95

4.00

Bookmark

The ratio between regional and local species diversity is measured as

- Alpha diversity
- Gamma diversity
- Beta diversity
- Delta diversity

Question No.96

4.00

Bookmark

In India, Land Utilization Zone (LUZ) in rural and agricultural areas are identified by

- Areas under extensive agriculture
- Marshy land
- Soils having low productivity
- Urban corridors

Question No.97

4.00

Bookmark

What is common to the techniques (i) in vitro fertilization (ii) cryopreservation and (iii) tissue culture?

- All are ex situ conservation methods
- All are in situ conservation methods
- All require ultra-modern equipment and large space
- All are methods of conservation of extinct organisms

Question No.98

4.00

Bookmark

High amount of salinity in water is mainly due to the presence of _____.

- Sulphates
- Phosphates
- Nitrates
- Sodium Chloride

Question No.99

4.00

Bookmark

Choose the missing term: 3F,6G,11I,18L, ?

- 27P
- 26N
- 28Q
- 27O

Question No.100

4.00

Bookmark

Improving a few ecosystem functions in a site from its degraded state

- Enhancement or augmentation
- Reclamation
- Replacement
- Rehabilitation