1 of 100
180 PU_2015_371
Transgenics are known to be:-
- disease-inducive
- disease-resistant
- disease-promotive
- disease-prone

2 of 100
148 PU_2015_371
Which one is the primary pollutant?
- CO
- PAN
- Smoke
- CO₂

3 of 100
115 PU_2015_371
An automated system for the capture, storage, retrieval, analysis and display of spatial data is known as:-
- a GPS
- Landsat
- IRS
- a GIS

4 of 100
160 PU_2015_371
Water that is good enough to drink is called:-
- Surface Water
- Potable Water
- Artesian Water
- Ground Water

5 of 100
123 PU_2015_371
Which of these below is not a measure of indoor air quality?
- Smoke Pollution
- Dust Pollution
- Carbon Monoxide Pollution
6 of 100
135 PU_2015_371
What process follows, evaporation ____________, rainfall?
- Infiltration
- Condensation
- Transpiration
- Absorption

7 of 100
168 PU_2015_371
The most serious environmental effect posed by hazardous wastes is:-
- Contamination of groundwater
- Destruction of habitat
- Increased use of land for landfills
- Air pollution

8 of 100
215 PU_2015_371
Which one of the hydrophytes contains root pockets?
- Eichhornia
- Azolla
- Najas
- Lemna

9 of 100
113 PU_2015_371
The smallest unit in a raster data is:-
- Pixel
- Polygon
- Line
- Point

10 of 100
219 PU_2015_371
Nano means:-
- one billionth
- one millionth
- one hundredth
11 of 100
185 PU_2015_371
Barnacles growing on the back of whale is an example for:-
- mutualism
- commensalism
- parasitism
- amensalism

12 of 100
178 PU_2015_371
Tree trunks of humid tropical forests are clothed with:-
- Hydrophytes
- Saprophytes
- Epiphytes
- Parasites

13 of 100
100 PU_2015_371
The instrument which provides EMR of a specified wavelength is called:-
- Sensor
- Passive sensor
- Satellite
- Active sensor

14 of 100
105 PU_2015_371
Atmospheric window is nothing but:-
- spectral region of the EMR which passes through the atmosphere without much attenuation
- spectral region of the EMR which is absorbed by the atmospheric particles
- spectral region of the EMR absorbed by the earth surface
- spectral region of the EMR reflected by the earth surface

15 of 100
183 PU_2015_371
Which one is true?
- commensalism when none of the interacting individuals affect each other
- commensalism when the interaction is useful to both
- symbiosis when the interaction is useful to both
symbiosis when neither affects the other

16 of 100
181 PU_2015_371
Exotic plants exhibit:
- slow growth and low-nutrient efficiency
- slow elongation and growth
- fast growth and high-nutrient efficiency
- none of these

17 of 100
203 PU_2015_371
Which one of the wetland types has carpet of *Sphagnum* moss?
- Bogs
- Tundra
- Marshes
- Fen

18 of 100
205 PU_2015_371
Type of coral reefs growing in Gulf of Mannar bioreserve is:
- Barrier reef
- Atoll
- Fringing reef
- Hard coral

19 of 100
107 PU_2015_371
Pick up the correct statement from the following:
- Spatial resolution of the imaging system decreases with decrease in platform height.
- Altitude of the satellite decides the spatial resolution.
- Scale of the aerial imaging depends on altitude of the airplane.
- Sensor's platforms are stationary.

20 of 100
144 PU_2015_371
When solid becomes liquid at its melting point, the entropy:
- Decreases
- Increases
- Zero
Remains unaltered

21 of 100
111 PU_2015_371
All bodies at temperatures above absolute zero degree emit electromagnetic radiations at different wavelengths, is known as:-

- Neuton's Law
- Planktan's Law
- Lambert's cosine Law
- Plank's Law

22 of 100
156 PU_2015_371
Photochemical smog is generally formed:-

- in early hours of winters
- when intensity of solar radiations is very low
- when concentration of particulate matter is very low
- around mid-day in summer months

23 of 100
132 PU_2015_371
The impact of sea level rise can be seen on the following examples, except:-

- Island systems
- Hydropower generation
- Tourism activities
- Coastal degradation

24 of 100
174 PU_2015_371
Root nodules with N\textsubscript{2} fixers occur in:-

- cereals & cinnamons
- cassytha & mints
- cassava & sedges
- casuarinas & legumes

25 of 100
162 PU_2015_371
The boundary between the saturated zone and the unsaturated zone is called the:-

- Porosity
- Aquiclude
26 of 100
193 PU_2015_371
Which of the following is LEAST likely to be an effect of global warming?
- Loss of fertile delta regions for agriculture
- Extinction of some species that have narrow temperature requirements
- Decreased rate of photosynthesis in vegetation
- Change in global patterns of precipitation

27 of 100
158 PU_2015_371
Sodium is usually estimated by which of the following analytical technique:
- Flame photometry
- Calorimetry
- Visible spectrophotometry
- High pressure liquid chromatography

28 of 100
109 PU_2015_371
An active sensor depends on:
- GIS
- Sun light
- GPS
- Radar

29 of 100
152 PU_2015_371
The main chemical responsible for hematotoxicity is:
- SO\(_2\)
- NO\(_2\)
- CO\(_2\)
- CO

30 of 100
125 PU_2015_371
Which of these is not a symptom of ozone pollution on human health?
- Sore throat
- Amnesia
Asthmatic attack
Lung cancer

31 of 100
103 PU_2015_371
The repetivity of a satellite decides:-
- radiometric resolution
- spatial resolution
- spectral resolution
- temporal resolution

32 of 100
139 PU_2015_371
The World's coal resources is not exhaustively exploited, because:-
- Limited technology know-how in coal-fired energy generation
- It is not environmental friendly
- Limited coal deposits
- Operation costs are very expensive

33 of 100
211 PU_2015_371
Which one of the following is not a wetland plant?
- Cyprus
- Scirpus
- Typha
- Ceratophyllum

34 of 100
209 PU_2015_371
Ocean tide prevailing during full moon and new moon days, is called:-
- ocean tide
- neap tide
- lunar tide
- spring tide

35 of 100
207 PU_2015_371
Which of the hydrophyte lacks stomata completely?
- Potamageton
- Ceratophyllum
36 of 100
164 PU_2015_371
Tick the order of biomes indicating increasing rainfall.
- Grasslands, rainforests & deserts
- Cold deserts, hot deserts & grasslands
- Rainforests, savannahs & deciduous forests
- Deserts, savannahs, deciduous & evergreen forests

37 of 100
121 PU_2015_371
Which of these instruments records wind direction?
- Anemometer
- Thermograph
- Rain Gauge
- Barograph

38 of 100
119 PU_2015_371
The largest scale of the following is:
- 1:500000
- 1:50000
- 1:100000
- 1:25000

39 of 100
146 PU_2015_371
Sound is measured by the unit:
- Decibel
- Calorie
- Bel
- Watt

40 of 100
195 PU_2015_371
Most of the Earth's deserts are at approximately 30 latitude, north and south, because these latitudes are characterized by:
- descending dry air currents
predominantly low atmospheric pressure
generally warm ocean currents
slow-moving jet streams

41 of 100
127 PU_2015_371
Which of these below best describe India’s climate?
- Tropical Monsoon
- Tropical Wet and Dry
- Tropical Wet
- Tropical Dry

42 of 100
166 PU_2015_371
The progressive series of changes that eventually produce a climax community on what was once a bare rocky island is an example of:-
- speciation
- evolution
- primary succession
- secondary succession

43 of 100
117 PU_2015_371
Precise measurement of Earth features in Photogrammetry can be obtained from:-
- low-oblique photographs
- high-oblique photographs
- vertical aerial photographs
- only high-and low-oblique aerial photographs

44 of 100
197 PU_2015_371
Which of the following is the best example of environmental remediation?
- The annual volume of sewage flowing into a stream is decreased by one half
- PCB-consuming bacteria are sprayed on an area that has soil contaminated with PCBs
- The height of a factory smokestack is increased
- A species of trout becomes extinct in a eutrophic lake

45 of 100
189 PU_2015_371
Which of the following interactions will not promote co evolution?
Commensalism
Parasitism
Interspecific competition
Mutualism

46 of 100
199 PU_2015_371
A country currently has a population of 100 million and an annual growth rate of 3.5 percent. If the growth rate remains constant, what will be the population of this country in 40 years?
- 150 million
- 300 million
- 400 million
- 200 million

47 of 100
187 PU_2015_371
When both partners are affected negatively the nature of interaction is:
- predation
- amensalism
- commensalism
- competition

48 of 100
213 PU_2015_371
Psammophytes means:
- plants growing in red soil
- plants growing in sandy soil
- plants growing in polar region
- plants growing in Taiga

49 of 100
176 PU_2015_371
Floating & rooted macrophytes of pond ecosystems:
- Halophila - Halodule & Eichhornia - Pistia
- Lemna - Wolfia & Elodia Vallisneria
- Enhalus - Blyxa & Lemna - Hydrocharis
- Utricularia - Oenothera & Wolfia - Eichhornia

50 of 100
217 PU_2015_371
Which one of following is not a lentic water body?

- Pond
- River
- Lake
- Sea

51 of 100

Which of these describes Malthusian theory on population growth?

- Decayed growth
- None applicable
- Linear growth
- Exponential growth

52 of 100

Which of the processes below not associated with vegetation systems?

- Transpiration
- Photosynthesis
- Interception
- Leaching

53 of 100

The equatorial crossing time of a sun-synchronous satellite is around:

- 7.30 am to 8.30 am
- 10.15 pm to 11.15 pm
- 10.15 am to 11.15 am
- 7.30 pm to 8.30 pm

54 of 100

Mycorrhiza represents:

- parasitic association between a fungus and roots of plants
- symbiotic association between a fungus and roots of higher plants
- parasitic association between a fungus and an alga
- symbiotic association between a fungus and liverworts

55 of 100
The largest mangrove area in India is:
- Gulf of Mannar
- Sundarbans
- Palk Strait
- Gulf of Combay

56 of 100
154 PU_2015_371
The hottest region of atmosphere is:
- Troposphere
- Mesosphere
- Stratosphere
- Ionosphere

57 of 100
201 PU_2015_371
Which type of electricity-generating power plant releases radioactive materials as well as toxic metals such as lead and arsenic under normal operating conditions?
- Coal-burning
- Nuclear
- Solar
- Hydroelectric

58 of 100
150 PU_2015_371
The temperature of earth core is about:
- 20,000°C
- 1000°C
- 500°C
- 5500°C

59 of 100
172 PU_2015_371
Weed control is achieved by:
- cytological, physiological & embryological means
- pathological, karyological & cytological means
- chronological, cytological & astrological means
- mechanical, chemical & biological means

60 of 100
Which of these below is not an indicator of global warming?

- Glacial retreat
- Increase in Green House Gases (GHGs)
- Sea level rise
- Slope failures

Dobson unit is used to express concentration of:

- Moisture
- Oxygen
- CO
- Ozone

Biomagnification is:

- A chemical process used to manufacture pesticides
- Increasing toxicity of animal products used in the food industry
- Increase in concentration of toxic substances at higher levels in food chain
- Large scale increase in CO₂ in the atmosphere

Which of the following is most sensitive to outlier values?

- Median
- Mean
- Mode
- Kurtosis

One of the following combination lists out current environmental issues:

- Deforestation, transpiration, hibernation
- Ozone depletion, respiration and photosynthesis
- Sea level rising, pollination, nutrient cycling
- Deforestation, biodiversity loss, ozone depletion and population increase
243 PU_2015_371
Endosulfan is reported to cause:
- endo-purine reaction
- endemic rashes
- genetic disorders
- endometrial disorders

66 of 100
241 PU_2015_371
Which of the following is more persistent in toxicity?
- Carbamate insecticide
- Fumigant insecticide
- Organophosphorus insecticide
- Organochlorine insecticide

67 of 100
251 PU_2015_371
Viruses have:
- proteins and DNA
- proteins and RNA
- only proteins
- proteins and DNA or RNA

68 of 100
231 PU_2015_371
Cell immobilization technique is facilitated using:
- Sodium alginate
- Sodium chloride
- Potassium permanganate
- Calcium carbide

69 of 100
237 PU_2015_371
The following are reported to emit Electro Magnetic Radiation:
- Cellphone towers
- High altitude towers
- Water reservoirs
- Bromine water

70 of 100
Name of the gas that caused disaster in Bhopal is:

- PAN
- Methyl isocyanate
- Acetylcholine
- Butyl alcohol

Which of the following is an arithmetic progression?

- 1,11,111,1111
- 1,2,4,8
- 1,2,3,4
- 1,1,2,3,5

Photosynthesis is energised by:

- red part of sunlight
- violet-blue part of sunlight
- green part of sunlight
- UV radiation in sunlight

When you take a loan on compound interest the amount payable:

- will increase quartically with time
- will increase quadratically with time
- will increase linearly with time
- will increase exponentially with time

Who is related to 'Use and Disuse theory' of evolution?

- T.H. Morgan
- Charles Darwin
- Mendal
- De Vris
Which one of the places is likely to be affected by Chemical weathering?

- Tibetan Plateau
- Siwaliks
- Western Ghats
- Thar Desert

The African elephant is given binomial name of *Loxodonta africana*. The Asian elephant is given the name *Elephas maximus*. They belong to:

- the same genus but different family
- the same family but different genus
- different genus and family
- the same genus and family

Which of the following is not a micro-parasite?

- Helminth
- Virus
- Bacteria
- Mycoplasma

Human genome contains approximately (order of magnitude wise):

- 20000 active genes
- 2 million active genes
- 2000 active genes
- 200000 active genes

Evergreen forests are made up of trees like:

- mango
- coconut
- teak
- oak
80 of 100
235 PU_2015_371
The Water Act amendment was made in the year:

- 2001
- 1999
- 1988
- 2014

81 of 100
272 PU_2015_371
Which of these Biosphere Reserves was established in India?

- Palawan Biosphere Reserve
- Woolong Biosphere Reserve
- Nilgiri Biosphere Reserve
- Mount Chatkal Biosphere Reserve

82 of 100
266 PU_2015_371
What is the measure of a species density?

- All individuals of a species in unit area
- All species in unit area
- Relative abundance of species
- Abundance of individuals

83 of 100
270 PU_2015_371
Meiosis is a process of cell division that results in the production of:

- Four haploid cells
- Two diploid cells
- Four diploid cells
- None of the above

84 of 100
288 PU_2015_371
The enzyme that breaks DNA into segments:

- Ligase
- Polymerase
- Amylase
- Endonuclease
85 of 100
274 PU_2015_371
How old is the earth?
☐ Over 4 billion years
☐ The earth always existed
☐ 10,000 years
☐ 1 million years

86 of 100
268 PU_2015_371
The Hardy-Weinberg law is the basis for which subject?
☐ Niche theory
☐ Species-area relationship
☐ Mendelian genetics
☐ Population genetics

87 of 100
298 PU_2015_371
Which of the following does not occur within mitochondria?
☐ Krebs cycle
☐ Glycolysis
☐ Electron transport system
☐ ATP synthesis

88 of 100
280 PU_2015_371
Who wrote the 'Origin of Species'?
☐ Charles Darwin
☐ Alexander Humbolt
☐ John Maynard Smith
☐ Charles Lyell

89 of 100
296 PU_2015_371
The excretory organs in silkworms are:
☐ Book lungs
☐ Malpighian tubules
☐ Trachea
☐ None
90 of 100
294 PU_2015_371
T-lymphocytes are formed in:-
- Spleen
- Yolk
- Bone marrow
- Liver

91 of 100
292 PU_2015_371
Balanced sets of chromosomes are seen in:-
- Aneupoids
- Alloploids
- Euploid
- Auto polyploids

92 of 100
276 PU_2015_371
Which of these Phyla in the animal kingdom have the largest number of species?
- Cnidaria
- Arthropoda
- Bacteria
- Chordata

93 of 100
290 PU_2015_371
Hormone for falling of leaf in plants:-
- Ethylene
- Auxins
- AB Acid
- Gibberellin

94 of 100
278 PU_2015_371
Which is the largest mammal?
- African Elephant
- Dugong
- Blue Whale
- Giraffe
95 of 100
282 PU_2015_371
Cell organelle that aids in photorespiration:
- None
- Golgi bodies
- Mitochondria
- Peroxysomes

96 of 100
260 PU_2015_371
One BYTE can store unsigned integer values from:
- 0-255
- 0-127
- 1-256
- 1-128

97 of 100
264 PU_2015_371
In a normal year Tamil Nadu is likely to receive approximately:
- 2500 mm of rain
- 1500 mm of rain
- 1000 mm of rain
- 750 mm of rain

98 of 100
284 PU_2015_371
High photosynthetic activity is seen in:
- Fern
- Algae
- Bryophytes
- Angiosperms

99 of 100
286 PU_2015_371
Which of the following play important role in protein synthesis?
- E.R
- Vacuoles
- Ribosomes
- Mitochondria
The value of e - the base of natural logarithms - is best approximated by:

- 2.718
- 1.414
- 1.618
- 3.142