

## PU M Sc Marine Biology

### 1 of 100

185 PU\_2015\_373

Down's syndrome is a typical case of

- ☐ Trisomy
- ☐ Nullisomic
- ☐ Tetraploid
- ☐ Monosomy

### 2 of 100

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Progesterone is a

- ☐ Neurotransmitter
- ☐ Hormone
- ☐ Steroid
- ☐ Amino acid

### 3 of 100

172 PU\_2015\_373

Parapodia are the locomotory organs of

- ☐ Earthworm
- ☐ Nereis
- ☐ Leech
- ☐ Amoeba

### 4 of 100

216 PU\_2015\_373

The exposure to high UV radiation causes

- ☐ Liver cancer
- ☐ Skin cancer
- ☐ Oral cancer
- ☐ Lung cancer

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125 PU\_2015\_373

The conductivity of a super conductor is

- ☐ Zero
- ☐ Infinite
- ☐ Very large

- ☐ Very small

**6 of 100**

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Fire extinguisher contain  $\text{H}_2\text{SO}_4$  and

- ☐ NaI  
☐ NaCl  
☐ NaF  
☐ NaBr

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202 PU\_2015\_373

In Hydrogen spectrum the different line of Lyman series are present in

- ☐ For ISR field  
☐ IR field  
☐ UV field  
☐ Visible field

**8 of 100**

113 PU\_2015\_373

The instrument used for measuring specific rotation

- ☐ Ammeter  
☐ Polarimeter  
☐ Lactometer  
☐ Spectrophotometer

**9 of 100**

140 PU\_2015\_373

Which of the following is wrongly matched?

- ☐ Barometer -pressure  
☐ Nuclear reactor-electron  
☐ Coluombu's law- charge  
☐ Lactometer milk

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Which of the following electromagnetic radiation has the smallest wavelength?

- ☐ X-rays  
☐ Microwaves  
☐ Gamma rays

- ☐ Ultraviolet

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205 PU\_2015\_373

When a neutral atom is converted into a cation there is a?

- ☐ Increase in atomic number
- ☐ A Decrease in size
- ☐ An increase in size
- ☐ Decrease in the atomic number

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Precursor of steroid hormone is

- ☐ Amino acids
- ☐ Cholesterol
- ☐ Amine compound
- ☐ Mucoprotein

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106 PU\_2015\_373

A dispersion of silver chloride in water is

- ☐ Hydrophilic colloid
- ☐ An emulsion
- ☐ Alcosol
- ☐ Hydrophobic colloid

**14 of 100**

175 PU\_2015\_373

Release of milk from mammary gland is under

- ☐ Vasopressin
- ☐ Thymosine
- ☐ Vrolactin
- ☐ Oxytocin

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Chemical properties of lithium and magnesium are similar because

- ☐ Both has same electron affinity
- ☐ These belong to same group
- ☐ Both has same insolation potential

- ☐ Shows diagonal relationship

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200 PU\_2015\_373

The number of moles for  $\text{KMnO}_4$  that will be needed to react with one mole of Sulphuric ion in acidic solution is

- ☐ 1
- ☐  $\frac{3}{5}$
- ☐  $\frac{2}{5}$
- ☐  $\frac{4}{5}$

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103 PU\_2015\_373

This object orbits Earth in both the Earth-centered (geocentric) and Sun-centered (heliocentric) models of our solar system?

- ☐ The Sun
- ☐ *Polaris*
- ☐ Venus
- ☐ The Moon

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The image formed by an objective of a compound microscope is

- ☐ Real and diminished
- ☐ Virtual and diminished
- ☐ Real and enlarged
- ☐ Virtual and enlarged

**19 of 100**

210 PU\_2015\_373

Which is the weakest reducing agent?

- ☐ Li
- ☐ Rb
- ☐ K
- ☐ Na

**20 of 100**

145 PU\_2015\_373

Glycolysis in the cytosol (cytoplasm) of cells produces a final product, which enters the mitochondria as:

- ☐ A pentose carbohydrate
- ☐ Chlorophyll

- ☐ Bacteriorhodopsin
- ☐ Pyruvate

**21 of 100**

195 PU\_2015\_373

NMR works on the principle of

- ☐ Ultrasound imaging
- ☐ X-ray imaging
- ☐ Color chromatography
- ☐ Magnetic resonance

**22 of 100**

152 PU\_2015\_373

The amino acids are the end product of the digestion of

- ☐ Proteins
- ☐ Enzymes
- ☐ Lipids
- ☐ Fats

**23 of 100**

115 PU\_2015\_373

Gel is a system of

- ☐ Solid dispersed in liquid medium
- ☐ Liquid dispersed in solid medium
- ☐ Solid dissolved in liquid medium
- ☐ Liquid dispersed in liquid medium

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146 PU\_2015\_373

What best describes a human sperm cell?

- ☐ Each always contains only one X chromosome
- ☐ Each always contains one X and one Y chromosome
- ☐ Each always contains only one Y chromosome
- ☐ Each may contain either one X or one Y chromosome

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186 PU\_2015\_373

What is cDNA

- ☐ Cytoplasmic DNA
- ☐ Circular DNA

- ☐ DNA produced from reverse transcription of RNA
- ☐ Cloned DNA

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215 PU\_2015\_373

The latest technique is used for the purification of organic compound is?

- ☐ Crystallisation
- ☐ Fraction distillation
- ☐ Vacuum distillation
- ☐ Chromatography

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159 PU\_2015\_373

Which of the following factors can help in regulating temperature

- ☐ Light
- ☐ Wind
- ☐ Humidity
- ☐ Temperature

**28 of 100**

204 PU\_2015\_373

The metal having the highest melting point?

- ☐ Tungsten
- ☐ Silver
- ☐ Chromium
- ☐ Diamond

**29 of 100**

171 PU\_2015\_373

Locomotion in starfish occurs by

- ☐ Tentacles
- ☐ Flagella
- ☐ Tube feet
- ☐ Pseudopodia

**30 of 100**

126 PU\_2015\_373

The filament of electric bulb is

- ☐ Zinc
- ☐ Copper

- ☐ Mercury
- ☐ Tungsten

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160 PU\_2015\_373

Photoperiodism in plants is related to the formation of

- ☐ GA
- ☐ Florigen
- ☐ Auxin
- ☐ Chlorophyll

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An isomer of ethanol is

- ☐ Diethyl ether
- ☐ Methanol
- ☐ Acetone
- ☐ Dimethyl ether

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139 PU\_2015\_373

Magnetic field does not cause deflection in

- ☐ Alpha rays
- ☐ Beta-plus rays
- ☐ Beta minus rays
- ☐ Gamma rays

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141 PU\_2015\_373

Which of the following particles has similar mass to that of the electron

- ☐ Positron
- ☐ Proton
- ☐ Neutrino
- ☐ Neutron

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137 PU\_2015\_373

The light given by the glow worm is due to

- ☐ Fluorescence
- ☐ Bioluminescence

- ☐ Emission
- ☐ Reflection of moon light

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109 PU\_2015\_373

Water is a liquid due to the presence of

- ☐ Ionic bonding
- ☐ Covalent bonding
- ☐ Hydrogen bonding
- ☐ Odd electron bond

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177 PU\_2015\_373

Which type of divisions occur in cleavage

- ☐ Mitotic and meiotic
- ☐ Mitotic
- ☐ Meiotic
- ☐ Amitotic

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In the Ocean, waves are formed due to?

- ☐ Revolution of earth
- ☐ Rotation of Earth
- ☐ Wind stress
- ☐ Pulling effect of Moon on earth

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In plants water rises upwards through

- ☐ Phloem
- ☐ Cambium
- ☐ Xylem
- ☐ Cortex

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151 PU\_2015\_373

Which is not a macromolecule

- ☐ Sodium palmitate
- ☐ Insulin



- ☐ Starch
- ☐ DNA

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201 PU\_2015\_373

What is the ratio of mass of an electron to the mass of a proton?

- ☐ 1:1837
- ☐ 1:3
- ☐ 1:2
- ☐ 1:1

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118 PU\_2015\_373

The acid which does not contain - COOH group is

- ☐ Ethanoic acid
- ☐ Picric acid
- ☐ Palmitic acid
- ☐ Lactic acid

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183 PU\_2015\_373

Sex chromosome may be defined as

- ☐ Sat chromosome
- ☐ X-chromosome
- ☐ Y-chromosome
- ☐ Chromosome concerned with sex determination

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123 PU\_2015\_373

Antipyretics are medicinal compounds which

- ☐ Control malaria
- ☐ Relieve pain
- ☐ Lower body temperature
- ☐ Can kill other organisms

**45 of 100**

138 PU\_2015\_373

Which of the following is best nuclear fuel

- ☐ Neptunium 239
- ☐ Plutonium 239

- ☐ Thorium 236
- ☐ Uranium 236

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124 PU\_2015\_373

Ampere hour is the unit of

- ☐ Energy
- ☐ Power
- ☐ Strength of current
- ☐ Quantity of charge

**47 of 100**

211 PU\_2015\_373

What is the composition of dry ice?

- ☐ Solid NO<sub>2</sub>
- ☐ Solid CO<sub>2</sub>
- ☐ Solid SO<sub>2</sub>
- ☐ Solid camphor

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196 PU\_2015\_373

Southern blotting is used for

- ☐ All the above
- ☐ DNA finger printing
- ☐ RNA-transfer
- ☐ Detection of proteins

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198 PU\_2015\_373

How many molecules of CO<sub>2</sub> are generated for each molecule of acetyl CoA introduced into the Krebs cycle?

- ☐ Three
- ☐ Four
- ☐ Two
- ☐ One

**50 of 100**

217 PU\_2015\_373

What type of ribosomes is found in prokaryotic cell?

- ☐ 80 S

- ☐ 70 S
- ☐ 100 S
- ☐ 60 S

**51 of 100**

163 PU\_2015\_373

Maximum growth rate occurs in

- ☐ Senescence phase
- ☐ Log phase
- ☐ Exponential phase
- ☐ Stationary phase

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117 PU\_2015\_373

Formaldehyde gives methyl alcohol and sodium formate on treating with NaOH. This is a case of

- ☐ Neither oxidation nor reduction
- ☐ Oxidation
- ☐ Reduction
- ☐ Simultaneous oxidation and reduction

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114 PU\_2015\_373

The molar conductivity of an electrolyte increases as

- ☐ Temperature increases
- ☐ Dilution increases
- ☐ Temperature decreases
- ☐ Dilution decreases

**54 of 100**

135 PU\_2015\_373

Which has the longest wavelength from the following?

- ☐ X-rays
- ☐ Gamma rays
- ☐ Blue light
- ☐ Red light

**55 of 100**

153 PU\_2015\_373

Which of the following bases is not present in DNA

- ☐ Uracil

- ☐ Adenine
- ☐ Guanine
- ☐ Cytosine

**56 of 100**

104 PU\_2015\_373

Neutrons can be found in atoms of all the elements except

- ☐ Helium
- ☐ Hydrogen
- ☐ Neon
- ☐ Carbon

**57 of 100**

173 PU\_2015\_373

Which animals have air sacs in their bones

- ☐ Mammals
- ☐ Reptiles
- ☐ Amphibians
- ☐ Aves

**58 of 100**

161 PU\_2015\_373

Response of plants in turning towards a source of light is

- ☐ Orientation
- ☐ Climatic response
- ☐ Habit
- ☐ Tropism

**59 of 100**

162 PU\_2015\_373

Herbicides are chemicals which control

- ☐ Insects
- ☐ Weeds
- ☐ Nematodes
- ☐ Fungi

**60 of 100**

116 PU\_2015\_373

Reversible adsorption is

- ☐ Absorption

- ☐ Physical adsorption
- ☐ Chemical adsorption
- ☐ Adsorption

**61 of 100**

241 PU\_2015\_373

What is the process called, when cell moves against a concentration gradient?

- ☐ Passive transport
- ☐ Osmosis
- ☐ Active transport
- ☐ Diffusion

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231 PU\_2015\_373

Which of the following is the most modern method of classification of organism?

- ☐ Morphology
- ☐ Morphometry
- ☐ Biochemical characterisation
- ☐ 16S rRNA sequence

**63 of 100**

228 PU\_2015\_373

For three dimensional study of the cell surface, which of the following is suitable?

- ☐ Transmission of electron microscope
- ☐ Compound microscope
- ☐ Fluorescence microscope
- ☐ Scanning electron microscope

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229 PU\_2015\_373

When a dipeptide like Lys-Glu, is put on electrophoresis at pH 6 the following will occur?

- ☐ Get degraded
- ☐ Remains stationary
- ☐ Move towards cathode (-)
- ☐ Move towards Anode (+)

**65 of 100**

244 PU\_2015\_373

What is the common name of dolphin fish?

- ☐ Flat fish

- ☐ Baracuda
- ☐ Bottlenose
- ☐ Dolphin

**66 of 100**

226 PU\_2015\_373

In which region of the electromagnetic spectrum, thermal radiation lies?

- ☐ Microwave region
- ☐ Visible region
- ☐ Ultraviolet region
- ☐ Infrared region

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256 PU\_2015\_373

The forces that can change the frequency of an allele in a population are

- ☐ Gene interaction, gene transfer, gene mutation and out breeding
- ☐ Forward mutation, gene conversion, neutral evolution and recombination
- ☐ Dominance, family selection, fitness and diversification
- ☐ Selection, mutation, migration, inbreeding and random genetic drift

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235 PU\_2015\_373

Which of the following is helpful in understanding the physical processes within the ocean?

- ☐ Chemical oceanography
- ☐ Physical oceanography
- ☐ Geological oceanography
- ☐ Biological oceanography

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236 PU\_2015\_373

The region between the high water line and low water line in the sea coast is known as

- ☐ Supralittoral
- ☐ Terrestrial
- ☐ Subtidal
- ☐ Intertidal

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248 PU\_2015\_373

What is the term given, when there is a difference between the sea level at high tide and low tide occurs?

- ☐ Tidal period

- ☐ Tidal range
- ☐ Tidal wavelength
- ☐ Tidal frequency

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225 PU\_2015\_373

Which of the following remains constant during the motion of a projectile fired from a planet?

- ☐ Kinetic energy
- ☐ Vertical component of velocity
- ☐ Horizontal velocity
- ☐ Momentum

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243 PU\_2015\_373

Marine sponges are

- ☐ Pelagic animals
- ☐ Sessile animals
- ☐ Plants
- ☐ Algae

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258 PU\_2015\_373

The SOS repair mechanism is activated by

- ☐ 2-aminopurine
- ☐ 5-bromouracil
- ☐ Thymine dimers
- ☐ Hydroxylamine

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232 PU\_2015\_373

What is a prophage?

- ☐ Auxotrophic mutant
- ☐ Phage DNA incorporated into the host genome
- ☐ DNA of lytic phage
- ☐ A gene

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233 PU\_2015\_373

The transition of swimming sperm to non-swimming sperm occurred in

- ☐ Ferns

- ☐ Bryophytes
- ☐ Gymnosperms
- ☐ Green algae

**76 of 100**

249 PU\_2015\_373

How much percentage of the Earth's surface is ocean?

- ☐ 34%
- ☐ 55%
- ☐ 92%
- ☐ 71%

**77 of 100**

242 PU\_2015\_373

Which of the following factors influence the speed of the sound in the sea?

- ☐ Salinity
- ☐ Temperature
- ☐ Air Pressure
- ☐ Alkalinity

**78 of 100**

246 PU\_2015\_373

What is the biggest fish from the sea?

- ☐ Whale shark
- ☐ Swordfish
- ☐ Barracuda
- ☐ Bluefin tuna

**79 of 100**

230 PU\_2015\_373

What domain in the eukaryotic proteins enable them to enter to the endoplasmic reticulum?

- ☐ Signal recognition protein
- ☐ Signal sequence
- ☐ Signal sequence receptor
- ☐ Transfer domain

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259 PU\_2015\_373

Specificity of transcription by RNA polymerase holoenzyme in E. coli is altered by changing the?

- ☐ Beta prime subunit



- ☐ Sigma subunit
- ☐ Beta subunit
- ☐ Alpha subunit

**81 of 100**

288 PU\_2015\_373

Which of these materials is not a major component of the plasma membrane?

- ☐ DNA
- ☐ Glycoproteins
- ☐ Phospholipids
- ☐ Proteins

**82 of 100**

275 PU\_2015\_373

In a thermally stratified lake, the layer of water, which extends from surface to thermocline is known as

- ☐ Epilimnion
- ☐ Insular layer
- ☐ Thermal layer
- ☐ Surface layer

**83 of 100**

264 PU\_2015\_373

What is a genome library?

- ☐ Recombinant molecules that have been sequenced
- ☐ Recombinant molecules that express all of the genes of an organism
- ☐ Recombinant molecules with inserts that contain all of the genes of an organism
- ☐ Recombinant molecules with inserts that contain all of an organisms genome

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263 PU\_2015\_373

The first step of proof reading during protein synthesis is carried out by

- ☐ tRNA
- ☐ Ribosomes
- ☐ aminoacyltRNAsynthetase
- ☐ mRNA

**85 of 100**

287 PU\_2015\_373

In which of the following remote sensing technique is not used?

- ☐ Medical treatment

- ☐ Forest density
- ☐ Wetland mapping
- ☐ Ground water survey

**86 of 100**

278 PU\_2015\_373

The micro fauna which inhabit sand and mud are known as

- ☐ Endopsammon
- ☐ Benthic fauna
- ☐ In fauna
- ☐ Meiofauna

**87 of 100**

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Which of the following oxides is acidic in nature?

- ☐ CrO
- ☐ CrO<sub>2</sub>
- ☐ Cr<sub>2</sub>O<sub>3</sub>
- ☐ CrO<sub>3</sub>

**88 of 100**

265 PU\_2015\_373

Cyprid larval stage represents which of these sessile organism

- ☐ Rock oyster
- ☐ Sea urchin
- ☐ Barnacle
- ☐ Star fish

**89 of 100**

290 PU\_2015\_373

Ribosomes are constructed in the

- ☐ Nucleolus;
- ☐ Endoplasmic reticulum;
- ☐ Nucleoid;
- ☐ Nuclear pore

**90 of 100**

279 PU\_2015\_373

The tidal phenomena, when the fortnightly cycle of spring and neap tides are dominant is called as

- ☐ Spring tide

- ☐ Diurnal tide
- ☐ Intermittent tide
- ☐ Synodic

**91 of 100**

289 PU\_2015\_373

Which polysaccharide is a major component of plant cell walls?

- ☐ Chitin
- ☐ Mannitol
- ☐ Peptidoglycan
- ☐ Cellulose

**92 of 100**

293 PU\_2015\_373

Nylon threads are made up of

- ☐ Polyester polymer
- ☐ Polyamide polymer
- ☐ Polyvinyl polymer
- ☐ Polyethylene polymer

**93 of 100**

296 PU\_2015\_373

To which part of the atom is radioactivity associated?

- ☐ Protons only
- ☐ Extra nuclear part
- ☐ Neutrons only
- ☐ Nucleus

**94 of 100**

276 PU\_2015\_373

The distance over which wind blows to generate a wave is known as

- ☐ Wavelength
- ☐ Wave period
- ☐ Wave direction
- ☐ Fetch

**95 of 100**

283 PU\_2015\_373

Which of the following is mainly responsible for the depletion of Ozone layer in the atmosphere?

- ☐ CFC

- ☐ CO<sub>2</sub>
- ☐ SO<sub>2</sub>
- ☐ CO

**96 of 100**

295 PU\_2015\_373

Which is the first man made element?

- ☐ Os
- ☐ Sc
- ☐ Te
- ☐ Zr

**97 of 100**

268 PU\_2015\_373

The main source of Nitrogen for green plant are

- ☐ Nitrates
- ☐ Atmospheric nitrogen
- ☐ Ammonium salts
- ☐ Low molecular organic nitrogenous compounds

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266 PU\_2015\_373

Which of the following is one of the larval stages of oyster

- ☐ Nauplius
- ☐ Eupluteus
- ☐ Zoea
- ☐ Veliger

**99 of 100**

284 PU\_2015\_373

Cathode rays can be deflected by

- ☐ Electric field only
- ☐ Magnetic field only
- ☐ Both type of fields
- ☐ None of the fields

**100 of 100**

267 PU\_2015\_373

Which is produced during water stress for stomatal closure?

- ☐ Abscissic acid

- ☐ Ethylene
- ☐ Coumarin
- ☐ Ferulic acid

### 373 PU M Sc Marine Biology

#### 1 of 100

184 PU\_2016\_373\_E

A vector is well known as:-

- ☐ Pathogenic protozoan
- ☐ Natural reservoir of disease
- ☐ Disease transmitting host
- ☐ Human parasite

#### 2 of 100

202 PU\_2016\_373\_E

Protamines are generally in nature:-

- ☐ strongly basic
- ☐ weakly basic
- ☐ weakly acidic
- ☐ strongly acidic

#### 3 of 100

191 PU\_2016\_373\_E

Plasmids are responsible for carrying out:-

- ☐ Gene transfer
- ☐ Cell metabolism
- ☐ Cell division
- ☐ Cell respiration

#### 4 of 100

155 PU\_2016\_373\_E

When any gas expands adiabatically, its internal energy:-

- ☐ Increases
- ☐ Expands
- ☐ Decreases
- ☐ Does not change

#### 5 of 100

117 PU\_2016\_373\_E

Which of the following hydrocarbons is liquid at room temperature?

- ☐ Hexane
- ☐ Ethane
- ☐ Butane

- ☐ Methane

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205 PU\_2016\_373\_E

The hormones responsible for the development of male secondary sex characteristics:-

- ☐ Estrogens  
☐ Progesterone  
☐ Androgens  
☐ Aldosterone

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114 PU\_2016\_373\_E

Which of the following is the scientific method to test the presence of water in a liquid?

- ☐ Smell  
☐ Use of anhydrous copper sulphate  
☐ Use of litmus  
☐ Taste

**8 of 100**

209 PU\_2016\_373\_E

The conversion of fibrogen to fibrin is catalysed by:-

- ☐ Trypsin  
☐ thrombin  
☐ pepsin  
☐ chymotrypsin

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200 PU\_2016\_373\_E

The name protein was coined by:-

- ☐ Emil fischer  
☐ Frederick Sanger  
☐ Hofmeister  
☐ Berzelius

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The hormone which promotes the transformation of larvae to pupal stage is:-

- ☐ Cortisol  
☐ Ecdyson  
☐ Steroid

- ☐ Lutein

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173 PU\_2016\_373\_E

Paleontology deals with the study of the:-

- ☐ Fishes
- ☐ Platyhelminthes
- ☐ Primates
- ☐ Fossils

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Alkenes are also known as:-

- ☐ Arenes
- ☐ Aliphatic saturated hydrocarbons
- ☐ Olefins
- ☐ Paraffins

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170 PU\_2016\_373\_E

Branch of zoology, which deals with the study of fishes is known as:-

- ☐ Arthrology
- ☐ Ichthyology
- ☐ Physiology
- ☐ Serology

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183 PU\_2016\_373\_E

Fats in the body are stored under the skin in the form of:-

- ☐ Limpoid tissue
- ☐ Mucous layer
- ☐ Adipose tissue
- ☐ Lipoprotein

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Boiling point and melting point of fatty acid change with:-

- ☐ decreasing chain length
- ☐ increasing chain length
- ☐ both the above



- ☐ none of the above

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141 PU\_2016\_373\_E

Thick glass tumbler gets cracks when boiling water is poured into it, because of:-

- ☐ Poor quality
- ☐ Rigid surface
- ☐ Unequal expansions
- ☐ Contraction

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154 PU\_2016\_373\_E

Which of the following does not characterize the thermodynamic state of matter?

- ☐ Temperature
- ☐ Volume
- ☐ Pressure
- ☐ Work

**18 of 100**

207 PU\_2016\_373\_E

The yellow colour of the autumn leaves is due to:-

- ☐ squalene
- ☐ lutein
- ☐ carotenes
- ☐ Fucoxanthin

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194 PU\_2016\_373\_E

The process of synthesis of glucose from fat is called:-

- ☐ Glycolysis
- ☐ TCA
- ☐ Gluconeogenesis
- ☐ Saponification

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157 PU\_2016\_373\_E

In an isothermal process the specific heat is:-

- ☐ Constant
- ☐ Zero
- ☐ Infinity

- ☐ One

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140 PU\_2016\_373\_E

The absolute zero is the temperature at which:-

- ☐ Water freezes
- ☐ All substances exist in solid state
- ☐ Molecular motion ceases
- ☐ None of the above

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158 PU\_2016\_373\_E

How much work one do on an object as he lifts it to a height of 'h' from the ground?

- ☐  $mgh/2$
- ☐  $mgh$
- ☐ Zero
- ☐  $2mgh$

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143 PU\_2016\_373\_E

The temperature at which the volume of all the gases is zero:-

- ☐ 273 K
- ☐ - 273 °C
- ☐ -273 K
- ☐ 274 K

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130 PU\_2016\_373\_E

Which of the flowing substance has the highest elasticity:-

- ☐ Copper
- ☐ Wood
- ☐ Steel
- ☐ Rubber

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156 PU\_2016\_373\_E

The internal energy of ideal gas is independent of the gas in bulk but depends only on the:-

- ☐ Pressure
- ☐ Volume
- ☐ Temperature

- ☐ Impurities

**26 of 100**

104 PU\_2016\_373\_E

Fire extinguishers contain  $\text{H}_2\text{SO}_4$  and:-

- ☐  $\text{CaCO}_3$
- ☐  $\text{NaCl}$
- ☐  $\text{Na}_2\text{O}$
- ☐  $\text{NaHCO}_3$  solution

**27 of 100**

103 PU\_2016\_373\_E

Which oxide is more basic among the following?

- ☐  $\text{BeO}$
- ☐  $\text{CaO}$
- ☐  $\text{MgO}$
- ☐  $\text{BaO}$

**28 of 100**

116 PU\_2016\_373\_E

Ethylene on hydration gives:-

- ☐ Glycol
- ☐ Ethanoic acid
- ☐ Ethanol
- ☐ Ethane

**29 of 100**

112 PU\_2016\_373\_E

Electrophiles are:-

- ☐ Nucleus hating species
- ☐ Nucleus loving species
- ☐ Electron hating species
- ☐ Electron loving species

**30 of 100**

153 PU\_2016\_373\_E

Zeroth law of thermodynamics was formulated by:-

- ☐ Joule
- ☐ Kelvin
- ☐ R. H. Fowler

- ☐ Clausius

**31 of 100**

132 PU\_2016\_373\_E

When the floating ice is completely melted, the level of water:-

- ☐ May rise or decrease
- ☐ Rises
- ☐ Decreases
- ☐ Remain the same

**32 of 100**

174 PU\_2016\_373\_E

The Theory of Natural Selection was proposed by Darwin on the basis of:-

- ☐ Use and disuse of organ
- ☐ Chromosomal variation
- ☐ Environmental factors
- ☐ Mutation

**33 of 100**

171 PU\_2016\_373\_E

The Cell theory was proposed by:-

- ☐ Lamarck
- ☐ Robert Hooke
- ☐ Huxley
- ☐ Schleiden and Schwann

**34 of 100**

193 PU\_2016\_373\_E

The blood vascular system in all vertebrates is:-

- ☐ Open type
- ☐ Made of blood sinuses
- ☐ Closed type
- ☐ Made of lacunae and vessels

**35 of 100**

201 PU\_2016\_373\_E

The proteins present in the hair is:-

- ☐ Keratin
- ☐ Myosin
- ☐ Elastin

- ☐ Melanin

**36 of 100**

102 PU\_2016\_373\_E

The following is used to softening of water:-

- ☐  $\text{Na}_2\text{SO}_4$
- ☐  $\text{Na}_2\text{CO}_3$
- ☐  $\text{NaHCO}_3$
- ☐  $\text{Na}_2\text{O}_2$

**37 of 100**

172 PU\_2016\_373\_E

Who of the following proposed the Theory inheritance of acquired characters?

- ☐ Lamarck
- ☐ Weismann
- ☐ Darwin
- ☐ Zimmermann

**38 of 100**

113 PU\_2016\_373\_E

The IUPAC name of isobutanol is:-

- ☐ 2-Methyl-1-Propanol
- ☐ 2-Methyl-2-Propanol
- ☐ 2-butanol
- ☐ 2-Methyl Propanol

**39 of 100**

118 PU\_2016\_373\_E

Structure of benzene was proposed by:-

- ☐ Mitcharlich
- ☐ Kekule
- ☐ Faraday
- ☐ Berzelius

**40 of 100**

111 PU\_2016\_373\_E

Chromatography is a technique based on:-

- ☐ Differential adsorption of different constituents of mixture
- ☐ Chemical adsorption followed by dispersion
- ☐ Absorption of Solute

- ☐ Solubilities of solute

**41 of 100**

182 PU\_2016\_373\_E

Which of the following is the largest living mammal of the world:-

- ☐ Giraffe
- ☐ Sperm whale
- ☐ Blue whale
- ☐ African Elephant

**42 of 100**

190 PU\_2016\_373\_E

A Fertilized egg is called as:-

- ☐ An embryo
- ☐ Germ cell
- ☐ A zygote
- ☐ A blastula

**43 of 100**

134 PU\_2016\_373\_E

The Viscosity of water is:-

- ☐ More in shallow waters
- ☐ More in deep waters
- ☐ Same throughout
- ☐ None of the above

**44 of 100**

100 PU\_2016\_373\_E

What is the characteristic of sponges?

- ☐ They are Sessile animals
- ☐ They are plants
- ☐ They are algae
- ☐ They are pelagic animals

**45 of 100**

131 PU\_2016\_373\_E

The Breaking force per unit area of cross section of a wire is called as:-

- ☐ Breaking stress
- ☐ Elasticity
- ☐ Ductibility

- ☐ Yield point

**46 of 100**

192 PU\_2016\_373\_E

Transduction is the process for:-

- ☐ Nucleolar inhibition
- ☐ Inhibition of protein synthesis
- ☐ Transfer of a portion of DNA
- ☐ Division of cell mass

**47 of 100**

110 PU\_2016\_373\_E

Silica has following structure:-

- ☐ Planar
- ☐ Linear
- ☐ Angular
- ☐ Polymeric

**48 of 100**

180 PU\_2016\_373\_E

Canal system is a characteristic of which of the following:-

- ☐ Sea urchin
- ☐ Sea anemone
- ☐ Sponge
- ☐ Hydra

**49 of 100**

203 PU\_2016\_373\_E

Simplest fatty acid of the following is:-

- ☐ Caproic acid
- ☐ Formic acid
- ☐ acetic acid
- ☐ Butyric acid

**50 of 100**

150 PU\_2016\_373\_E

Which of the following surface radiates more heat at a given temperature?

- ☐ Black and rough
- ☐ White and polished
- ☐ Black and polished

- ☐ White and rough

**51 of 100**

152 PU\_2016\_373\_E

Which of the following pairs represent units of the same physical quantity?

- ☐ Joule and calorie
- ☐ Kelvin and joule
- ☐ Newton and calorie
- ☐ Kelvin and calorie

**52 of 100**

142 PU\_2016\_373\_E

The scale of a temperature which does not have negative temperature is:-

- ☐ Fahrenheit
- ☐ Centigrade
- ☐ Absolute
- ☐ None

**53 of 100**

119 PU\_2016\_373\_E

Which of the following is not aromatic?

- ☐ Cyclooctatetraene
- ☐ Benzene
- ☐ Napthalene
- ☐ Anthracene

**54 of 100**

208 PU\_2016\_373\_E

The existence of tRNA was postulated by:-

- ☐ Klug
- ☐ Rich
- ☐ Crick
- ☐ Hoagland

**55 of 100**

101 PU\_2016\_373\_E

An aqueous solution of alum is:-

- ☐ Amphoteric
- ☐ Basic
- ☐ Acidic



- ☐ Neutral

**56 of 100**

144 PU\_2016\_373\_E

Universal gas constant has the units:-

- ☐ Watt/mole-K
- ☐ Erg/mole -K
- ☐ Erg-cm/mole-K
- ☐ Dynes/mole-°C

**57 of 100**

159 PU\_2016\_373\_E

When a body falls freely from some height then the work done by gravity is:-

- ☐ Zero
- ☐ May be positive or negative
- ☐ Positive
- ☐ Negative

**58 of 100**

151 PU\_2016\_373\_E

Black body radiation is:-

- ☐ Red
- ☐ White
- ☐ Black
- ☐ Colorless

**59 of 100**

133 PU\_2016\_373\_E

Stream line flow is more likely for liquids with:-

- ☐ Low density
- ☐ Low viscosity
- ☐ High density
- ☐ High viscosity

**60 of 100**

181 PU\_2016\_373\_E

Which of the following organisms lives on dead organic matter:-

- ☐ Predators
- ☐ Parasites
- ☐ Symbionts

- ☐ Saprophytes

**61 of 100**

258 PU\_2016\_373\_M

The true nucleus is absent in which one of the following?

- ☐ Fungi
- ☐ Lichen
- ☐ Bacteria
- ☐ Green algae

**62 of 100**

257 PU\_2016\_373\_M

The protoplasm is:-

- ☐ Solution
- ☐ Suspension
- ☐ Emulsion
- ☐ Colloidal solution

**63 of 100**

253 PU\_2016\_373\_M

A dormant volcano is one, which:-

- ☐ Erupted once in a recorded history for a short time and may erupt again
- ☐ Not erupted yet
- ☐ Keeps erupting regularly at known intervals
- ☐ Erupts continuously

**64 of 100**

250 PU\_2016\_373\_M

Which of the following is Great circle?

- ☐ Equator
- ☐ Tropic of cancer
- ☐ Tropic of Capricorn
- ☐ Arctic circle

**65 of 100**

252 PU\_2016\_373\_M

Oxygen in the upper atmosphere is converted into:-

- ☐ Ozone
- ☐ Co<sub>2</sub>
- ☐ Nitrogen

- ☐ Hydrogen

**66 of 100**

251 PU\_2016\_373\_M

Destruction of ecosystem leads to increase in UV radiation to earth because of:-

- ☐ Decrease on O<sub>2</sub> content
- ☐ Increase in CO<sub>2</sub> content
- ☐ Increase in CO and CO<sub>2</sub> content
- ☐ Decrease in O<sub>3</sub> content

**67 of 100**

220 PU\_2016\_373\_M

Proteins are made up of:-

- ☐ Fatty acids
- ☐ Amino acids
- ☐ Sugars
- ☐ Nucleic acids

**68 of 100**

228 PU\_2016\_373\_M

In bacteria the nuclear material is:-

- ☐ Nucleic acid and histone protein
- ☐ Nucleic acid and cytoplasm
- ☐ Nucleic acid only
- ☐ All the above

**69 of 100**

226 PU\_2016\_373\_M

ATP stands for:-

- ☐ An enzyme which brings about oxidation
- ☐ A hormone
- ☐ A molecule which contain high phosphate bonds
- ☐ A protein

**70 of 100**

223 PU\_2016\_373\_M

During the process of respiration, which of the following is produced?

- ☐ AMP
- ☐ ACP
- ☐ ADP

- ☐ ATP

**71 of 100**

224 PU\_2016\_373\_M

During photosynthesis, the liberated oxygen comes from:-

- ☐ Phosphoglyceric acid
- ☐ Carbon dioxide
- ☐ Water
- ☐ Chlorophyll

**72 of 100**

221 PU\_2016\_373\_M

Light reaction in the photosynthesis occurs in:-

- ☐ Chloroplast
- ☐ Stromata
- ☐ Grana
- ☐ Cytoplasm

**73 of 100**

225 PU\_2016\_373\_M

Which wavelength of light carries out photosynthesis in bacteria?

- ☐ Red
- ☐ Blue
- ☐ Ultraviolet
- ☐ Near infra-red

**74 of 100**

229 PU\_2016\_373\_M

The virus is made up of DNA and protein, where DNA is a:-

- ☐ Tail and head
- ☐ Strand
- ☐ Head
- ☐ Tail

**75 of 100**

259 PU\_2016\_373\_M

What causes detoxification of the cell?

- ☐ Rough Endoplasmic reticulum
- ☐ Smooth endoplasmic reticulum
- ☐ Lysosome

- ☐ Golgi complex

**76 of 100**

227 PU\_2016\_373\_M

Which of the following is a water soluble vitamin?

- ☐ Vitamin A
- ☐ Vitamin D
- ☐ Vitamin K
- ☐ Vitamin C

**77 of 100**

254 PU\_2016\_373\_M

In the upper atmosphere, which of the following layer is free from clouds and other weather changes associated with it?

- ☐ Mesosphere
- ☐ Ionosphere
- ☐ Stratosphere
- ☐ Troposphere

**78 of 100**

222 PU\_2016\_373\_M

The dark reaction in photosynthesis is so named because:-

- ☐ Does not require light energy
- ☐ Needs darkness
- ☐ Cannot occur in light condition
- ☐ It is a dark reaction

**79 of 100**

256 PU\_2016\_373\_M

The main components of the cell membrane are:-

- ☐ Carbohydrates only
- ☐ Vitamins and polysaccharides
- ☐ Proteins and Lipids
- ☐ Fats and glycerol

**80 of 100**

255 PU\_2016\_373\_M

Which of the following layers consists of electrically charged particles called ions?

- ☐ Ionosphere
- ☐ Stratosphere

- ☐ Troposphere
- ☐ Mesosphere

**81 of 100**

295 PU\_2016\_373\_D

Mendelian recombination occurred due to:-

- ☐ Mutation
- ☐ Independent assortment of genes
- ☐ Dominance
- ☐ Linkage of genes

**82 of 100**

294 PU\_2016\_373\_D

Hybrid with similar genotypes are known as:-

- ☐ Allele
- ☐ Hybrid
- ☐ Homozygous
- ☐ Clone

**83 of 100**

268 PU\_2016\_373\_D

The organelle which occurs internal to cell wall and external to cell membrane is known as:-

- ☐ Lomasome
- ☐ Peroxisome
- ☐ Glyoxysome
- ☐ None of the above

**84 of 100**

298 PU\_2016\_373\_D

Who among the following known as father of taxonomy?

- ☐ Linnaeus
- ☐ Darwin
- ☐ John Ray
- ☐ Aristotle

**85 of 100**

267 PU\_2016\_373\_D

Which of the following exhibits endosymbiosis?

- ☐ Mitochondria
- ☐ Ribosomes

- ☐ Peroxisomes
- ☐ Centrioles

**86 of 100**

296 PU\_2016\_373\_D

Which of the following is a unit of inheritance has a fixed location on the chromosome:-

- ☐ Gene
- ☐ Muton
- ☐ Recon
- ☐ Cistron

**87 of 100**

264 PU\_2016\_373\_D

Which of the following is not present inside the nucleus?

- ☐ DNA
- ☐ Chromosome
- ☐ RNA
- ☐ Tonoplast

**88 of 100**

261 PU\_2016\_373\_D

The staining material of chromosome is:-

- ☐ Acetocarmine
- ☐ Haemotoxylin
- ☐ Methyl green
- ☐ Methyl isocinate

**89 of 100**

260 PU\_2016\_373\_D

The pH of cytoplasm is:-

- ☐ Alkaline
- ☐ Slightly acidic
- ☐ Acidic
- ☐ Slightly alkaline

**90 of 100**

266 PU\_2016\_373\_D

The bond between the two strands of DNA is:-

- ☐ Oxygen
- ☐ Nitrogen

- ☐ Carbon
- ☐ Hydrogen

**91 of 100**

262 PU\_2016\_373\_D

Mitochondrion contains:-

- ☐ Amyloplast
- ☐ DNA
- ☐ RNA
- ☐ DNA and RNA

**92 of 100**

299 PU\_2016\_373\_D

Micro consumers are popularly known as:-

- ☐ Secondary consumer
- ☐ Decomposer
- ☐ Primary consumer
- ☐ Tertiary consumer

**93 of 100**

292 PU\_2016\_373\_D

All the pigments and enzymes of bacteria necessary for photosynthesis are contained in:-

- ☐ Flagella
- ☐ Ribosomes
- ☐ Chromatophores
- ☐ Plasma membrane

**94 of 100**

290 PU\_2016\_373\_D

The enzymes of TCA cycle for the oxidation of Pyruvic acid into  $\text{CO}_2$  and  $\text{H}_2\text{O}$  are present in:-

- ☐ Mesosomes
- ☐ Peroxisomes
- ☐ Chloroplasts
- ☐ Mitochondria

**95 of 100**

293 PU\_2016\_373\_D

Phytochrome is a photoreceptor and pigment that plants use to detect:-

- ☐ Dark
- ☐ Temperature



- ☐ Light
- ☐ Heat

**96 of 100**

265 PU\_2016\_373\_D

The term episome is used for:-

- ☐ Plasmids
- ☐ Non-nuclear DNA
- ☐ Chromosomal DNA
- ☐ Viral DNA

**97 of 100**

291 PU\_2016\_373\_D

Periplasmic space occur inbetween:-

- ☐ Outer wall and inner wall
- ☐ Plasma membrane and Cell wall
- ☐ Cytoplasm and plasma membrane
- ☐ Outer wall membrane and inner wall membrane

**98 of 100**

297 PU\_2016\_373\_D

Modern classification is based on the principle of:-

- ☐ Physiology
- ☐ Morphology
- ☐ Phylogeny
- ☐ Fossils

**99 of 100**

269 PU\_2016\_373\_D

Haploid set of homologous chromosome is called as:-

- ☐ Genome
- ☐ Centrosome
- ☐ Chromonemate
- ☐ Centromere

**100 of 100**

263 PU\_2016\_373\_D

The number of grana lamellae in each granum is:-

- ☐ 5 - 25
- ☐ 5 - 10

- ☐ 5 - 15
- ☐ 10 - 60

Sr No.	MSc Marine Biology
1	Which term will replace the question mark in the series: ABD,DGK,HMS,MTB,SBL, ?
Alt1	ZKU
Alt2	ZKW
Alt3	ZAB
Alt4	XKW

2	Choose word from the given options which bears the same relationship to the third word, as the first two bears: Illiteracy: Education:: Flood:?
Alt1	Rain
Alt2	Bridge
Alt3	Dam
Alt4	River

3	Select the lettered pair that has the same relationship as the original pair of words: Sip : Gulp
Alt1	Touch: Push
Alt2	Cup: Class
Alt3	Tent: Hut
Alt4	Soup: Water

4	Select the lettered pair that has the same relationship as the original pair of words: Low : Cattle
Alt1	Sheep: Beef
Alt2	Gaggle: Chicken
Alt3	Grunt: Hogs
Alt4	Flock: Goat

5	Find out the number that has the same relationship as the numbers of the given pair: 8 : 81 :: 64 : ?
Alt1	125
Alt2	137
Alt3	525
Alt4	625

6	Spot the defective segment from the following:
Alt1	It's time
Alt2	the students dispersed
Alt3	to go to home
Alt4	after study hours

7	There is no ----- in our car and it is already crowded.
Alt1	room
Alt2	place
Alt3	seat

Alt4	space
------	-------

8	Newton ----- loved his pet dog very much.
Alt1	a scientist
Alt2	the scientist
Alt3	scientist
Alt4	one scientist

9	Choose the option closest in meaning to the given word: JINGOISM
Alt1	deism
Alt2	chauvinism
Alt3	extremism
Alt4	pacifism

10	Choose the antonymous option you consider the best: QUACK
Alt1	bizarre
Alt2	procurer
Alt3	charlatan
Alt4	authority

11	In a village there are 1000 persons. Out of which 800 are literates. Out of 1000,700 are criminals. There are 550 literate criminals in that village. How many Illiterate non criminals are there?
Alt1	150
Alt2	250
Alt3	50
Alt4	200

12	Average weight of A,B,C is 45; Average weight of A&B is 40; Average weight of B&c is 43, Weight of B is
Alt1	17
Alt2	20
Alt3	26
Alt4	31

13	Which of the following cannot be the Median of the three positive Integers X,Y & Z ?
Alt1	X
Alt2	Z
Alt3	X+Z
Alt4	$(X+Z)/3$

14	How many Zero's are there in the product $1*2*3*.....*10$
Alt1	2
Alt2	10
Alt3	5

Alt4	6
------	---

  

15	A,B,C,D work on a project. Together A,B & C can complete in 100 days; Together B,C & D can complete in 101 days; Together C,D & A can complete in 102 days; together D,A & B can complete in 103 days . Rank them from the best to the worst performer.
Alt1	C>B>A>D
Alt2	C>A>B>D
Alt3	D>B>A>C
Alt4	D>A>B>C

  

16	22 Students are evenly spaced on the circumference of a big circle. They are numbered 1 to 22. which number is opposite to 17?
Alt1	8
Alt2	5
Alt3	7
Alt4	6

  

17	The fare of a luxury cab is Rs. X for the first five Kilometres and Rs,13/- per Kilometre thereafter. If a passenger pays Rs.2402/- for a journey of 187 kilometres, what is the value of X ?
Alt1	Rs.29
Alt2	Rs.39
Alt3	Rs.36
Alt4	Rs.31

  

18	An HR Company employs 4800 people out of which 45 per cent are males and 60 per cent of males are either 25 years or older. How many males are employed in that company who are younger than 25 years ?
Alt1	2640
Alt2	2160
Alt3	1296
Alt4	864

  

19	A person buys a shirt with marked price Rs.400/- at 20% discount. In order to make a profit of 20% the person should sell the shirt for
Alt1	Rs.400/-
Alt2	Rs.384/-
Alt3	Rs.320/-
Alt4	Rs.480/-

  

20	The following information is given:(i) Five friends P, Q, R, S and T travelled to five different cities of Chennai, Calcutta, Delhi, Bangalore and Hyderabad by five different modes of transport of Bus, Train, Aeroplane, Car and Boat from Mumbai. (ii) The person who travelled to Delhi did not travel by boat. (iii) R went to Bangalore by car and Q went to Calcutta by aeroplane.(iv) S travelled by boat whereas T travelled by train. (v) Mumbai is not connected by bus to Delhi and Chennai. Which of the following combinations of place and mode is not correct ?
----	--

Alt1	Delhi — Bus
Alt2	Calcutta — Aeroplane
Alt3	Bangalore — Car
Alt4	Chennai — Boat

21	RNA
Alt1	RNA
Alt2	Chromatin
Alt3	Carbohydrates
Alt4	Proteins

22	Thermal radiation falls is:-
Alt1	Visible range
Alt2	Infrared range
Alt3	Cosmic range
Alt4	Ultraviolet range

23	Which of the following is a manmade element?
Alt1	Lr
Alt2	Ra
Alt3	Fr
Alt4	Rn

24	A cylinder is completely filled with water, if $\frac{1}{4}$ of the volume of water leaks out, its centre of mass:-
Alt1	Does not change
Alt2	Moves down
Alt3	Moves up
Alt4	Moves towards vertical surface

25	The process of heat transfer without affecting the medium is called as:-
Alt1	Conduction
Alt2	Radiation
Alt3	Advection
Alt4	Convection

26	Which of the following reacts most violently with the water?
Alt1	Cs
Alt2	Na
Alt3	Rb
Alt4	K

27	Exoskeleton of crustaceans are formed of:-
Alt1	Dextrin
Alt2	Inuline
Alt3	Heparin
Alt4	Chitin

28	Golgi apparatus takes part in the process of:-
Alt1	Protein synthesis
Alt2	Carbohydrate synthesis
Alt3	Oxidative phosphorylation
Alt4	Lipid synthesis

29	The two strands of DNA is held by which of the following:-
Alt1	Hydrogen bond
Alt2	Sulphide bond
Alt3	Oxygen bond
Alt4	Phosphate bond

30	To reduce the friction between the moving parts of a machine, the liquid used must be of:-
Alt1	Low density
Alt2	High viscosity
Alt3	Low boiling point
Alt4	Low viscosity

31	Endoplasmic reticulum is associated with:-
Alt1	Cholesterol formation
Alt2	Proteolysis
Alt3	Fatty Acid synthesis
Alt4	Peptide bond formation

32	Which of the following gas thermometer can be used to measure very low temperature:-
Alt1	Air
Alt2	Pyrogen
Alt3	Helium
Alt4	Hydrogen

33	Tidal waves in the sea are primarily due to:-
Alt1	Atmospheric effect of the earth
Alt2	Gravitational effect of the moon on the earth
Alt3	Gravitational effect of the sun on the earth
Alt4	Wind effect

34	In nature, mostly the Nitrogen is fixed by:-
Alt1	Symbiotic bacteria
Alt2	Chemosynthesis
Alt3	Denitrifying bacteria
Alt4	Lightning

35	A real gas can be approximated to an ideal gas at:-
Alt1	Low density
Alt2	Low temperature
Alt3	High pressure

Alt4	High density
------	--------------

36	The enzyme, pepsin converts protein into:-
Alt1	Emulsified protein
Alt2	Glucoseptides
Alt3	Polypeptides
Alt4	Glycoprotein

37	Magnetic induction and magnetic flux differ in the dimensions of:-
Alt1	Length
Alt2	Electric current
Alt3	Time
Alt4	Mass

38	Velocity of sound in a medium is given by $A^{1/2}d^{-1/2}$ , where 'd' is density of medium. Then A represents:-
Alt1	Elastic constant
Alt2	Volume
Alt3	Energy
Alt4	Compressibility

39	The path of the centre of mass of earth-moon system around the sun is:-
Alt1	Parabolic path
Alt2	Elliptical path
Alt3	Helical path
Alt4	Circular path

40	The temperature of the sun is measured with:-
Alt1	Vapour pressure thermometer
Alt2	Platinum thermometer
Alt3	Gas thermometer
Alt4	Pyrometer

41	In Oceans what is the approximate percent (%) of water:-
Alt1	70
Alt2	30
Alt3	90
Alt4	45

42	Carbon remains available to the crop plants in the form of:-
Alt1	Amino acids
Alt2	Element carbon
Alt3	Carbon dioxide
Alt4	Carbonates

43	During the process of mitosis nuclear envelope and nucleolus disappear during:-
Alt1	Metaphase



Alt2	Prophase
Alt3	Interphase
Alt4	Telophase

44	The force responsible for the motion of planets around sun is:-
Alt1	Magnetic
Alt2	Electrostatic
Alt3	Gravitational
Alt4	Frictional

45	The Minamata epidemic was caused due to:-
Alt1	Cadmium
Alt2	Mercury
Alt3	Lead
Alt4	Zinc

46	A body at rest can have:-
Alt1	Kinetic energy
Alt2	Momentum
Alt3	Potential energy
Alt4	Both momentum and potential energy

47	Presence of lateral line on both sides of fishes are responsible for:-
Alt1	Photo receptors
Alt2	Mechanoreceptors
Alt3	Chemoreceptors
Alt4	Olfactory receptors

48	Which ions are responsible for the electrical potential across the cell membrane?
Alt1	Na <sup>+</sup> & Ca <sup>2+</sup>
Alt2	Na <sup>+</sup> & Zn <sup>2+</sup>
Alt3	K <sup>+</sup> & Ba <sup>2+</sup>
Alt4	Na <sup>+</sup> & K <sup>+</sup>

49	Absence of which of the following system identifies Porifera:-
Alt1	Digestive system
Alt2	Respiratory system
Alt3	Reproductive system
Alt4	Nervous system

50	The species richness in an ecosystem best explains:-
Alt1	Ecosystem
Alt2	Biodiversity
Alt3	Forest
Alt4	Richness of species

51	When any detergent is added to pure water its surface tension:-
----	---

Alt1	Increases
Alt2	Does not change
Alt3	Decreases
Alt4	Becomes zero

52	The gas liberated when aluminum reacts with concentrated H <sub>2</sub> SO <sub>4</sub> is:-
Alt1	SO <sub>2</sub>
Alt2	H <sub>2</sub> S
Alt3	H <sub>2</sub>
Alt4	O <sub>2</sub>

53	A large ice berg melts at the base but not at the top because:-
Alt1	Elevation of melting at its base due to high pressure
Alt2	Lowering of melting at its base due to high pressure
Alt3	At the base it is slightly warm
Alt4	At its base it contains impurities

54	The law, which governs the working of a spring balance is:-
Alt1	Kepler's law
Alt2	Newton's law
Alt3	Robert Hooke's law
Alt4	Young's law

55	Chlorophyll contains:-
Alt1	K
Alt2	Fe
Alt3	Mg
Alt4	Mn

56	When two water droplets merge to form a large droplet, in this process:-
Alt1	Energy is absorbed
Alt2	Energy neither liberated nor absorbed
Alt3	Some mass is converted to energy
Alt4	Energy is liberated

57	Silicon cells can maximize the efficiency of:-
Alt1	Computer
Alt2	Electric generator
Alt3	solar cooker
Alt4	wind turbines

58	Mechanism of DNA replication was originally characterized in:-
Alt1	Fungi
Alt2	Virus
Alt3	Bacteria
Alt4	Algae

59	Heat and thermal capacity differ in the dimension of:-
Alt1	Mass
Alt2	Time
Alt3	Length
Alt4	Temperature

60	The triple point for water is:-
Alt1	0°C at a pressure of 1 atm.
Alt2	-273 °C of a pressure of 4 mm of Hg
Alt3	273 K at a pressure of 76 mm of Hg
Alt4	273. 16K at a pressure of 613 Pa

61	One horse power is equal to:-
Alt1	746 W
Alt2	373W
Alt3	746J
Alt4	1746W

62	Solid CO <sub>2</sub> is used in:-
Alt1	Anaesthesia
Alt2	Poison
Alt3	Artificial respirant
Alt4	Refrigerant

63	If the length and breadth of a plate are $(40 \pm 0.1)$ and $30 \pm 0.1$ cm, the absolute error in measurement of area is:-
Alt1	8 cm <sup>2</sup>
Alt2	10 cm <sup>2</sup>
Alt3	7 cm <sup>2</sup>
Alt4	9 cm <sup>2</sup>

64	The process of nutrient enrichment of water bodies is known as:-
Alt1	Nutrition
Alt2	Nitrification
Alt3	Nitrogen fixation
Alt4	Eutrofication

65	If the units of the length, mass and time are doubled, the unit of the force will be:-
Alt1	Quadrupled
Alt2	Halved
Alt3	Doubled
Alt4	Unchanged

66	Zero of an instrument introduces:-
Alt1	Gross error
Alt2	Systematic error
Alt3	Random error

Alt4	Total error
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67	Tectonic force is related with the building of various features of:-
Alt1	Earth's surface
Alt2	Mountains
Alt3	Earth's crust
Alt4	Cyclones

68	The enzymes that converts proteins into polypeptides:-
Alt1	Trypsin
Alt2	Chymotrypsin
Alt3	Pepsin
Alt4	Rennin

69	Ocean currents are:-
Alt1	River of cold water merging with the ocean
Alt2	River of cold and warm water merging with the ocean
Alt3	River of warm water merging with the ocean
Alt4	Current of ocean

70	The antibiotic penicillin is obtained from a:-
Alt1	Virus infected cells
Alt2	Fungus
Alt3	Synthetic means
Alt4	A bacterium

71	The period of lunar eclipse is longer when:-
Alt1	The moon is moving at very low speed
Alt2	The moon is at the farthest point from the earth
Alt3	The eclipse occurs at night
Alt4	The moon is nearer to the earth

72	Imaginary lines connecting places in oceans having equal salinity are:-
Alt1	Isobars
Alt2	Isohyets
Alt3	Isohalines
Alt4	Isotherms

73	Ocean currents have greater influence on:-
Alt1	Climate
Alt2	Soil
Alt3	Land form
Alt4	Ocean bottom structure

74	Ultraviolet radiation from sun light causes the reaction that produces:-
Alt1	SO <sub>2</sub>
Alt2	Ozone

Alt3	CO
Alt4	Fluorides

75	When a narrow strip land connecting two large land masses, it is known as:-
Alt1	Bay
Alt2	Isthmus
Alt3	Strait
Alt4	Pass

76	Which of the following is not an atmospheric pollutant?
Alt1	Hydrocarbons
Alt2	CO
Alt3	SO <sub>2</sub>
Alt4	CO <sub>2</sub>

77	Several tropical cyclones of Pacific Ocean are generally called as:-
Alt1	Typhoons
Alt2	Depressions
Alt3	Tornadoes
Alt4	Hurricanes

78	Which of the following is also called as water hemisphere?
Alt1	Western hemisphere
Alt2	Southern hemisphere
Alt3	Eastern hemisphere
Alt4	Northern hemisphere

79	Anticyclones are caused by:-
Alt1	Winds that flow spirally outward from the centre
Alt2	Violent winds
Alt3	Heavy rain fall
Alt4	Winds that rotate round the centre of minimum of low barometer pressure

80	The chemical that is responsible for depletion of ozone in the stratosphere is:-
Alt1	CF <sub>4</sub>
Alt2	CCl <sub>4</sub>
Alt3	CHF <sub>3</sub>
Alt4	CF <sub>2</sub> Cl <sub>2</sub>

81	The study of microscopic structure of tissues and organ is known as:-
Alt1	Endocrinology
Alt2	Immunology
Alt3	Pathology
Alt4	Histology

82	Which of the following represents mRNA:-
Alt1	A controlling factor for specifically in protein synthesis

Alt2	A mixture of RNA and DNA
Alt3	Synthesized in the nucleus and transferred to the cytoplasm
Alt4	An expression of the information in DNA

83	When molten magma solidifies, it forms rocks like:-
Alt1	Sedimentary
Alt2	Calcite
Alt3	Igneous
Alt4	Metamorphic

84	What is the main function of amyloplast?
Alt1	Light absorbing
Alt2	Starch storing
Alt3	Lipid synthesizing
Alt4	Lipid absorbing

85	The first fossil records of vertebrates were found in the rocks of:-
Alt1	Ordovician
Alt2	Jurassic
Alt3	Cambrian
Alt4	Devonian

86	Radiata include:-
Alt1	Coelenterata & Platyhelminthes
Alt2	Coelenterata & Ctenophora
Alt3	Porifera & Platyhelminthes
Alt4	Porifera & Coelenterata

87	According to the system of binomial nomenclature every organisms has:-
Alt1	One scientific name of which first part is genus and other species
Alt2	Two names one for the place to which it belongs and the other of the discoverer
Alt3	One name established by two scientists
Alt4	Two names one scientific and one common

88	Notochord in cephalochordates:-
Alt1	Completely absent
Alt2	Extends from rostrum to pharynx
Alt3	Extends from rostrum to tail
Alt4	Extends from pharynx to tail

89	Osmoregulation in Euglena occur with the help of:-
Alt1	Contractile vacuole
Alt2	Food vacuole
Alt3	Vacuole
Alt4	None

90	Syncytial theory explains:-
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Alt1	Origin of metazoan
Alt2	Formation of coelom
Alt3	Origin of life
Alt4	Symmetry of animals

91	Mineral salts are absorbed from the soil solution in the form of:-
Alt1	Liquids
Alt2	Solids
Alt3	Ions
Alt4	Gases

92	The study of Mollusca is generally known as:-
Alt1	Helminthology
Alt2	Herpatology
Alt3	Concology
Alt4	Malacology

93	What is meant by intracellular parasite?
Alt1	Parasite inside the cells
Alt2	Parasite which interconnects neighboring cells
Alt3	Parasite between the cells
Alt4	Parasite on the outer surface of cells

94	Squamous epithelium is also called:-
Alt1	Bridge epithelium
Alt2	Cuboidal epithelium
Alt3	Cement epithelium
Alt4	Pavement epithelium

95	Which of the plant hormone is also called as stress hormone:-
Alt1	Absciscic acid
Alt2	Auxin
Alt3	Ethylene
Alt4	Gibberellin

96	Cellulosic cell wall in nature is:-
Alt1	Polysaccharide
Alt2	Protein
Alt3	Lipid
Alt4	Nucleic acid

97	The sequence of 3 nucleotides in polynucleotide chains of the DNA molecule is called:-
Alt1	Triplet code
Alt2	Genetic code
Alt3	Chain termination
Alt4	Nonsense codon

98	Type of fusion between one large, nonmotile female gamete and a smaller motile gamete is called:-
Alt1	Polygamous
Alt2	Anisogamous
Alt3	Isogamous
Alt4	Oogamous

99	Hypnotoxin is a poisonous fluid produced by:-
Alt1	Ascaris
Alt2	Nematocysts
Alt3	Sponges
Alt4	Parasitic protozoa

100	Most simple and commonest type of larva is:-
Alt1	Nauplius
Alt2	Zoea
Alt3	Alima
Alt4	Megalopa

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