

## 373 PU M Sc Marine Biology

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184 PU\_2016\_373\_E

A vector is well known as:-

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

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Protamines are generally in nature:-

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

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Plasmids are responsible for carrying out:-

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

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When any gas expands adiabatically, its internal energy:-

- Increases
- Expands
- Decreases
- Does not change

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Which of the following hydrocarbons is liquid at room temperature?

- Hexane
- Ethane
- Butane

- Methane

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

- Estrogens
- Progesterone
- Androgens
- Aldosterone

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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

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The conversion of fibrogen to fibrin is catalysed by:-

- Trypsin
- thrombin
- pepsin
- chymotrypsin

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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

**11 of 100**

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Paleontology deals with the study of the:-

- Fishes
- Platyhelminthes
- Primates
- Fossils

**12 of 100**

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Alkenes are also known as:-

- Arenes
- Aliphatic saturated hydrocarbons
- Olefins
- Paraffins

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

- Arthrology
- Ichthyology
- Physiology
- Serology

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

- Poor quality  
 Rigid surface  
 Unequal expansions  
 Contraction

**17 of 100**

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

- Temperature  
 Volume  
 Pressure  
 Work

**18 of 100**

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

- squalene  
 lutein  
 carotenes  
 Fucoxanthin

**19 of 100**

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

- Glycolysis  
 TCA  
 Gluconeogenesis  
 Saponification

**20 of 100**

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In an isothermal process the specific heat is:-

- Constant  
 Zero  
 Infinity

- One

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

- 273 K
- 273 °C
- 273 K
- 274 K

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Which of the flowing substance has the highest elasticity:-

- Copper
- Wood
- Steel
- Rubber

**25 of 100**

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

- Pressure
- Volume
- Temperature

- Impurities

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

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

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Which oxide is more basic among the following?

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

**28 of 100**

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Ethylene on hydration gives:-

- Glycol
- Ethanoic acid
- Ethanol
- Ethane

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Electrophiles are:-

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

**30 of 100**

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Zeroth law of thermodynamics was formulated by:-

- Joule
- Kelvin
- R. H. Fowler

- Clausius

**31 of 100**

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

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

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

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

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The Cell theory was proposed by:-

- Lamarck
- Robert Hooke
- Huxley
- Schleiden and Schwann

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The blood vascular system in all vertebrates is:-

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

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The proteins present in the hair is:-

- Keratin
- Myosin
- Elastin

- Melanin

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The following is used to softening of water:-

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

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

- Lamarck
- Weisemann
- Drawin
- Zimmermann

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The IUPAC name of isobutanol is:-

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

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Structure of benzene was proposed by:-

- Mitcharlich
- Kekule
- Faraday
- Berzelius

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Chromatography is a technique based on:-

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



- Solubilities of solute

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

- Giraffe
- Sperm whale
- Blue whale
- African Elephant

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A Fertilized egg is called as:-

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

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The Viscosity of water is:-

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

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What is the characteristic of sponges?

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

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

- Breaking stress
- Elasticity
- Ductibility

- Yield point

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Transduction is the process for:-

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

**47 of 100**

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Silica has following structure:-

- Planar
- Linear
- Angular
- Polymeric

**48 of 100**

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

- Sea urchin
- Sea anemone
- Sponge
- Hydra

**49 of 100**

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Simplest fatty acid of the following is:-

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

**50 of 100**

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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**

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

- Fahrenheit
- Centigrade
- Absolute
- None

**53 of 100**

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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

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Universal gas constant has the units:-

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

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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**

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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**

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In bacteria the nuclear material is:-

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

**69 of 100**

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ATP stands for:-

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

**70 of 100**

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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**

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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**

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What causes detoxification of the cell?

- Rough Endoplasmic reticulum
- Smooth endoplasmic reticulum
- Lysosome

- Golgi complex

**76 of 100**

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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