

PU M Sc Marine Biology

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Down's syndrome is a typical case of

- Trisomy
- Nullisomic
- Tetraploid
- Monosomy

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Progesterone is a

- Neurotransmitter
- Hormone
- Steroid
- Amino acid

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Parapodia are the locomotory organs of

- Earthworm
- Nereis
- Leech
- Amoeba

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The exposure to high UV radiation causes

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

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The conductivity of a super conductor is

- Zero
- Infinite
- Very large

- Very small

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Fire extinguisher contain H_2SO_4 and

- NaI
 NaCl
 NaF
 NaBr

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

- For ISR field
 IR field
 UV field
 Visible field

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The instrument used for measuring specific rotation

- Ammeter
 Polarimeter
 Lactometer
 Spectrophotometer

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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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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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A dispersion of silver chloride in water is

- Hydrophilic colloid
- An emulsion
- Alcosol
- Hydrophobic colloid

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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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The number of moles for KMnO_4 that will be needed to react with one mole of Sulphuric ion in acidic solution is

- 1
 3/5
 2/5
 4/5

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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

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Which is the weakest reducing agent?

- Li
 Rb
 K
 Na

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

- A pentose carbohydrate
 Chlorophyll

- Bacteriorhodopsin
- Pyruvate

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NMR works on the principle of

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

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The amino acids are the end product of the digestion of

- Proteins
- Enzymes
- Lipids
- Fats

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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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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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What is cDNA

- Cytoplasmic DNA
- Circular DNA

- DNA produced from reverse transcription of RNA
- Cloned DNA

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

- Crystallisation
- Fraction distillation
- Vacuum distillation
- Chromatography

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Which of the following factors can help in regulating temperature

- Light
- Wind
- Humidity
- Temperature

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The metal having the highest melting point?

- Tungsten
- Silver
- Chromium
- Diamond

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Locomotion in starfish occurs by

- Tentacles
- Flagella
- Tube feet
- Pseudopodia

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The filament of electric bulb is

- Zinc
- Copper

- Mercury
- Tungsten

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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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Magnetic field does not cause deflection in

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

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

- Positron
- Proton
- Neutrino
- Neutron

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The light given by the glow worm is due to

- Fluorescence
- Bioluminescence

- Emission
- Reflection of moon light

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Water is a liquid due to the presence of

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

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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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Which is not a macromolecule

- Sodium palmitate
- Insulin

- Starch
- DNA

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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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The acid which does not contain - COOH group is

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

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Sex chromosome may be defined as

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

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Antipyretics are medicinal compounds which

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

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Which of the following is best nuclear fuel

- Neptunium 239
- Plutonium 239

- Thorium 236
- Uranium 236

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Ampere hour is the unit of

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

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What is the composition of dry ice?

- Solid NO₂
- Solid CO₂
- Solid SO₂
- Solid camphor

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Southern blotting is used for

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

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How many molecules of CO₂ are generated for each molecule of acetyl CoA introduced into the Krebs cycle?

- Three
- Four
- Two
- One

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What type of ribosomes is found in prokaryotic cell?

- 80 S

- 70 S
- 100 S
- 60 S

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Maximum growth rate occurs in

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

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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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The molar conductivity of an electrolyte increases as

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

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Which has the longest wavelength from the following?

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

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Which of the following bases is not present in DNA

- Uracil

- Adenine
- Guanine
- Cytosine

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Neutrons can be found in atoms of all the elements except

- Helium
- Hydrogen
- Neon
- Carbon

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Which animals have air sacs in their bones

- Mammals
- Reptiles
- Amphibians
- Aves

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Response of plants in turning towards a source of light is

- Orientation
- Climatic response
- Habit
- Tropism

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Herbicides are chemicals which control

- Insects
- Weeds
- Nematodes
- Fungi

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Reversible adsorption is

- Absorption

- Physical adsorption
- Chemical adsorption
- Adsorption

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

- Passive transport
- Osmosis
- Active transport
- Diffusion

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

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

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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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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 (+)

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What is the common name of dolphin fish?

- Flat fish

- Baracuda
- Bottlenose
- Dolphin

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

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

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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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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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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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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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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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Marine sponges are

- Pelagic animals
- Sessile animals
- Plants
- Algae

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The SOS repair mechanism is activated by

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

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What is a prophage?

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

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

- Ferns

- Bryophytes
- Gymnosperms
- Green algae

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

- 34%
- 55%
- 92%
- 71%

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

- Salinity
- Temperature
- Air Pressure
- Alkalinity

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What is the biggest fish from the sea?

- Whale shark
- Swordfish
- Barracuda
- Bluefin tuna

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

- Beta prime subunit

- Sigma subunit
- Beta subunit
- Alpha subunit

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

- DNA
- Glycoproteins
- Phospholipids
- Proteins

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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

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

- tRNA
- Ribosomes
- aminoacyltRNAsynthetase
- mRNA

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

- Medical treatment

- Forest density
- Wetland mapping
- Ground water survey

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The micro fauna which inhabit sand and mud are known as

- Endopsammon
- Benthic fauna
- In fauna
- Meiofauna

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Which of the following oxides is acidic in nature?

- CrO
- CrO₂
- Cr₂O₃
- CrO₃

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Cyprid larval stage represents which of these sessile organism

- Rock oyster
- Sea urchin
- Barnacle
- Star fish

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Ribosomes are constructed in the

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

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

- Spring tide

- Diurnal tide
- Intermittent tide
- Synodic

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Which polysaccharide is a major component of plant cell walls?

- Chitin
- Mannitol
- Peptidoglycan
- Cellulose

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Nylon threads are made up of

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

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To which part of the atom is radioactivity associated?

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

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

- Wavelength
- Wave period
- Wave direction
- Fetch

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

- CFC

- CO₂
- SO₂
- CO

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Which is the first man made element?

- Os
- Sc
- Te
- Zr

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The main source of Nitrogen for green plant are

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

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

- Nauplius
- Eupluteus
- Zoea
- Veliger

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Cathode rays can be deflected by

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

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Which is produced during water stress for stomatal closure?

- Abscisic acid

- Ethylene
- Coumarin
- Ferulic acid