PU Ph D Marine Biology

111	PU_2015_119 apparent daily path of the Sun changes with the seasons because: The Sun rotates Earth's distance from the Sun changes Earth's axis is tilted The Sun revolves
127	PU_2015_119 ymes are:- Fatty acids Proteins Vitamins None of these
207	F 100 PU_2015_119 ch of the following is greatly influenced by Ocean currents? Energy distribution Nutrient cycling Land formation Climate
105	PU_2015_119 at is most likely concerning Okazaki fragments? Pieces of DNA made during replication. Pieces of histone molecules released during transcription. Pieces of RNA which will join to form messenger RNA. Discovered by Linus Pauling as parts of the hemoglobin molecule.
213	F 100 PU_2015_119 lome is formed from which of the following germ layer? Ectoderm Mesoderm Endoderm

	All the three
168	F 100 PU_2015_119 at is standing stock?
	Biomass in a given locality
	Biomass in a give ecosystem
	Biomass in an area
0	Biomass of a population present at any given time
158	F 100 PU_2015_119 average salinity of ocean water:-
	40 %
	25 ‰
	35 ‰
141	F 100 PU_2015_119 ch of these cellular organelles have their own DNA? Chloroplast Nucleus Mitochondrion All of these
217	F 100 PU_2015_119 protoplasm is a:-
	Solution
	Emulsion
	Colloidal solution
0	Suspension
202	of 100 PU_2015_119 Iones formed in the Atlantic Ocean are generally called as? Tornadoes
	Depressions
	Hurricanes

	Typhoons
210	of 100 PU_2015_119 ne atmosphere where the ozone layer lies?
	Above the troposphere
	At the upper limit of the stratosphere
9	Troposphere
	Below the troposphere
208 Tec	of 100 PU_2015_119 tonic forces is related with the building of various features of?
	Earth's crust
	Mountains
	Ridges
	Earth's surface
131	of 100 PU_2015_119 ich of the following statement is true?
	Velocity of light is constant in all media
	Velocity of light in vacuum is maximum
0	Velocity of light is same in all reference frames
	Laws of nature has identical form in all reference frames
214	of 100 PU_2015_119 ich of the following is mesodermal in origin?
	Neural tube
	Protocord
	Notochord
	Archenteron
106	of 100 PU_2015_119 ere would you find the "Calvin cycle"?
	The Calvin cycle is the cycle of nitrogen fixation and is found in the soil and roots of plants.
	The Calvin cycle only occurs in mitochondria.
	It is found in sea water.

	The Calvin cycle only occurs in autotrophs.	
133 Whi	of 100 PU_2015_119 ich of the following pieces of oceanographic equipment is the most accurate when measuring water salinity?	
	Salinometer	
	Hydrometer Set	
	CTD meter	
	Chemical Test Kit (Knudsen Titration)	
144	of 100 PU_2015_119 Indard visibility measurements of the sea water by the marine scientists made with the:-	
	Fathometer	
	Lux meter	
	Refractometer	
	Secchi disc	
173	of 100 PU_2015_119 st valuable mineral resources taken from beneath the sea floor:-	
	Calcium	
	Radiolarian	
	Petroleum	
	Manganese	
182	of 100 PU_2015_119 populations in any environment are known as sympatric, because:-	
	Two populations are physically isolated by natural barriers.	
0	Two populations are isolated but occasionally come together to interbreed.	
	Two populations share the same environment but cannot interbreed.	
	Two populations live together and freely interbreed to produce sterile offspring.	
20 of 100 185 PU_2015_119 Which of the following is the main feature of the ocean bottom?		
	Guyots.	
	Oceanic ridges.	

	Seamounts.
	Trenches.
137	of 100 PU_2015_119 oflagellates:-
	Breaks down oil
	Reproduce by simple cell division
	Produce blooms known as red tide
	Produce bioluminescence
147 Eury	of 100 PU_2015_119 yhaline indicates:-
	Tolerance of wide variations of salinity
	High salinity tolerance
	Low salinity tolerance
	Tolerant to varying temperature
204	of 100 PU_2015_119 ch of the following is the main factor in causing water pollution?
	Smoke
	Industrial waste
	Detergent
	Ammonia
216	of 100 PU_2015_119 main components of the cell membrane are:-
	Vitamins and polysaccharides
	Carbohydrates only
	Proteins and lipids
	Fats and glycerol
139 The	of 100 PU_2015_119 plasma membrane does all of these except:-
	Contains the hereditary material
	Regulates passage of material in and out of the cell

	Functions in the recognition of self
	Acts as a boundary or border for the cytoplasm
166	of 100 PU_2015_119 at is epifauna?
	Animals live on ocean bottom
	Animals live as parasites on other organisms
	Animals live on water surface
	Animals live by attaching on other organisms
104 You	of 100 PU_2015_119 If are given a piece of a molecule and told that it can be described in a shorthand notation as 3' GUUUCCCGGG 5'. Which of the following is most likely concerning this molecule? It is a piece of DNA which gives enough information to add 12 amino acids to a growing protein in.
	It is a piece of RNA which gives enough information to add 4 amino acids to a growing protein chain.
C cha	It is a piece of RNA which gives enough information to add 12 amino acids to a growing protein
0	It is a piece of either DNA or RNA.
192	PU_2015_119 billoidal solution exhibits? No osmotic pressure High osmotic pressure Very high osmotic pressure Low osmotic pressure
109 Hov	of 100 PU_2015_119 v many molecules of CO ₂ are generated for each molecule of acetyl CoA introduced into the Krebs le?
	Three
	Four
0	One
	Two
200	of 100 PU_2015_119 cyclones are formed due to?

	High velocity winds
	Heavy rain fall
	Winds that rotate round the centre of minimum low barometer pressure
	Winds that flow spirally outward from the centre
157	of 100 PU_2015_119 e average velocity of sound in the ocean is:- 1450 m/s 100 m/s
	334 m/s
	1200 m/s
169	of 100 PU_2015_119 welling is:-
	Algal blooming
	A process by which nutrient rich water is brought to the surface by pipe lines
	A process by which nutrient rich water is brought to the surface by natural oceanic processes
	Nutrient recycling in the ocean
102	of 100 PU_2015_119 ich is most accurate concerning thylakoids?
	Is the structure contains chemical substance for the digestion of cellulose in grass.
	Found inside the mitochondria.
	These are the stacks of disks inside chloroplasts.
com	A community of microorganisms that live in the ocean and contain cyanobacteria as a major ponent.
188	of 100 PU_2015_119 at type of ribosomes is found in prokaryotic cell?
	80 S
	100 S
	60 S
	70 S
	of 100 PU_2015_119

Gre	at barrier reef is found in:-
	Newzealand
	Mediteranean sea
	Australia
	India
179	of 100 PU_2015_119 rm water current in the ocean, which brings dry weather condition is known as:- La nino Aghulas El nino El lilo
218	PU_2015_119 nucleus has the maximum size during which phase? Metaphase Prophase Interphase Telophase
100 Whi	PU_2015_119 ich of the following is a remarkable similarity between the chemical composition of the oceans and that ur blood? Both have naturally concentrations of fluoride. Both have naturally concentrations of chromium. Both have naturally concentrations of sodium and potassium. Both have naturally concentrations of potassium and boron.
122	of 100 PU_2015_119 ers are isomeric with:- Carboxylic acids Ketones Aldehydes Alcohols

40 of 100

	ro_2015_119 ing which era did the initial opening of the present-day Atlantic Ocean most likely occur?
	Cenozoic
	Mesozoic
	Paleozoic
	Late Proterozoic
134 Whi	PU_2015_119 ich of the following pieces of equipment would be most helpful to a marine scientists who wanted to cribe the exact location of a sample? Electron Microscope Telescope Satellite GPS unit
126	PU_2015_119 main structural feature of protein is:- Hydrogen bond Ether linkage Ester linkage Peptide linkage
154	of 100 PU_2015_119 Challenger expedition for oceanographic studies were conducted:- 1872 - 1876 1896 - 1900 1885 - 1892 1832 - 1836
124	of 100 PU_2015_119 ver amines are soluble in water due to:- Formation of complexes Low molecular mass
	Affinity with water
	Formation of hydrogen bonds with water

115	of 100 PU_2015_119 ich of the following is a lyophobic colloid?
	Sulphur
	Gelatin
	Starch
	Gum Arabic
143	of 100 PU_2015_119 g, whiplike microfibrils that facilitate movement by cells are known as:- Leather Cilia Pseudopodia Flagella
151	PU_2015_119 If flow of solvent through a semi-permeable membrane towards the solution side is the phenomenon Diffusion Osmosis Transfusion Absorption
118 Whi	of 100 PU_2015_119 ich of the following compound is most soluble in water? Sr SO ₄ CaSO ₄ MgSO ₄ BaSO ₄
129	of 100 PU_2015_119 naerobic reaction, there is net gain of:- 38 ATP 2 ATP 50 ATP 10 ATP

	of 100 PU_2015_119
Whi	ch is most accurate concerning fermentation?
	Part of the synthesis of carbohydrates by photosynthesis.
	Produces lactic acid in our muscles.
	Part of the breakdown process of cellulose in the human intestine.
	Produces ethanol in our muscles
177	of 100 PU_2015_119 nes are characterized by:-
	Four chamber heart
	Branchial heart
	Venous heart
	Two chamber heart
113 The	PU_2015_119 function of the salt bridge is to:- Keep the level of solution same. Allow the current to flow through the cell and keep the solution electrically neutral. Allow ions to move from anode to cathode
	Allow solutions from one-half cell to the other half cell.
196 The	PU_2015_119 average diameter of the earth is approximately:- 10,000 miles 25,000 miles 16,000 miles 8,000 miles
164	PU_2015_119 at is break water?
	Sea walls to protect high waves
	An artificial structure constructed to protect a coastal region from the force of ocean waves
	Natural structures which protect a coastal region from the force of ocean waves
	Coastal water body

107	of 100 PU_2015_119 ich of the following is most accurate concerning "crossing over"?
	It occurs only when there is mutation.
	Crossing over produces genetic variability during meiosis.
	Crossing over forms Okazaki fragments.
	Crossing over occurs only while a new strand of messenger RNA is being made.
211	of 100 PU_2015_119 ich of the following is responsible for stability of the nucleus? Neutron Proton Positron Electron
205 Whi	PU_2015_119 ich of the following is not an atmospheric pollutant? Hydrocarbons SO ₂ CO ₂
120	of 100 PU_2015_119 solution of SO_2 in water produces:- H_2SO_3 $H_2S_2O_7$ $H_2S_2O_8$ H_2SO_4
155	of 100 PU_2015_119 als are:- Invertebrates belonging to Phylum Arthropoda Plants Invertebrates belonging to Phylum Echinodermata
	Invertebrates belonging to Phylum Cnidaria

160	of 100 PU_2015_119 oons are:-
0	Large water bodies having it own current circulation pattern
	Landward shallow water bodies with narrow connection with the sea
	Salt water bodies surrounded by land mass
	Water bodies along the sea coast
250	PU_2015_119 Esophagus in bony fishes is? Short and compressed Short and expandable Long and expanded Long and compressed
247	PU_2015_119 teeth of Elasmobranchs are modified as:- Cycloid scales Ctenoid scales Ganoid scales Placoid scales
229	PU_2015_119 first global summit on the Ozone depletion was held in:- Washington, 1884 Brazil, 1985 Vienna, 1985 New Delhi, 1984
239	of 100 PU_2015_119 com pair trawling is also known as:- Double trawling Bull trawling Heavy trawling Pair trawling
	ı alı uawılıU

252	of 100 PU_2015_119 s species of prawn is commonly known as Banana prawn:-
	Penaeus semisulcatus
	Penaeus indicus
	Penaeus monoceros
	Penaeus merguiensis
225	of 100 PU_2015_119 at is the settlement stage larva of barnacle called? Nauplius Cyprid Mysis Zoea
231	of 100 PU_2015_119 technology of bioremediation using microorganism was first developed by? C.D Bridges
	G. M. Robionson
	J.D. Watsen
	H.F.C Crick
258 Whi	PU_2015_119 ich is the atmospheric layer near the surface of earth? Ionosphere Troposphere Mesosphere Stratosphere
255 Whi	of 100 PU_2015_119 ich of the following method is best suited to determine bacteriophages concentration in a sample?
	Plaque assay
	Spectrophotometry
	Microscopy
	Chromatography

241	of 100 PU_2015_119 at is the spawning pattern in Oysters?
	Benthic spawners
	Nest spawners
	Substract spawners
	Broadcast spawners
223	of 100 PU_2015_119 process transfer of genetic material from donor cell to recipient cell in bacteria is known as: Transversion Transformation Conjugation Transduction
227	of 100 PU_2015_119 en groups of different population are found in a given area, it is known as? Environment Ecosystem Community Endemism
221 Wh	of 100 PU_2015_119 ich of the following exhibits endosymbiosis? Centrioles Ribosome Mitochondria Peroxisomes
256	of 100 i PU_2015_119 Electroporation a foreign DNA is introduced into the target organism by:- Active transport across the cell wall Changing the electric potential of the cell wall Lysis of the cell wall Changing the porosity of the cell wall

254	of 100 PU_2015_119 at is the role of SDS in polyacrylamide gel electrophoresis for the separation of a mixture of proteins?
	Have uniform charge density on the proteins
	Stabilize the protein
	Solubilize the protein
	Decrease the surface tension of buffer
237 In th	PU_2015_119 nis Males obligatory parasites on their females:- Labeo sp Diorosoma sp Ceratias sp
	Osteochilus sp
245 Wha	PU_2015_119 at is the latest freezing technique? IFQ IQF TQF PQF
233	PU_2015_119 Ich of the following Ice fish of the Antarctic have no haemoglobin in the blood? Pseudochaenichthys leorgianus Pseudochaenichtys triorgians Pseudochaenichthys georgianus Pseudochaenichthys heorgianus
235	of 100 PU_2015_119 Ich year the FAO Code of Conduct for Responsible Fisheries was adopted? October 1895
	October 1890
	October 1998
	October 1995

243	of 100 PU_2015_119 ich of the following fish migration is Amphidromous?
	Anguilla Anguilla
	Hilsa ilisha
	Gobies
	King salmon
272 Whi	of 100 PU_2015_119 ich of the following statements do not define the characteristic property of water "water is a universal tion"?
	It has very low dielectric constant
	It is polar
	It can dissolve maximum number of compounds
	It has high liquid range
285	of 100 PU_2015_119 ich of the following energy is not a source of renewable energy from the sea?
	Tidal energy
	Petroleum
	Wave energy
	Ocean thermal energy
281	of 100 PU_2015_119 ich of the following do not represent G-proteins correctly?
	Energy for their activity comes from the GTP molecules
	They are activated by interaction with 7-pass receptors
	Their activation always increase the concentration of cAMP
9	They are membrane associated proteins
262 The	of 100 PU_2015_119 marine sponge can be differentiated from other animals due to the presence of:-
	Choanocytes
	Coelenteron
	Hollow body

	Dermal papillae
290	of 100 PU_2015_119 tidal cycle, which tide has a minimum current?
	Flood tide
	Ebb tide
	Slack tide
	Lunar tide
294	of 100 PU_2015_119 diversity hot spots are recognized on the basis of:- Number of endemic species and the degree to which the organisms are threatened and endangered
	Total area of forest cover
	Their proximity to the national parks
	Number of species in the area
268	PU_2015_119 Ich of the following is the similar characteristic in the development of echinoderms and chordates? Coelom Nervous system Heart Gut
274	of 100 PU_2015_119 hardness of water is estimated by? Distillation method Conductivity method
	EDTA method
	Titrimetric method
280	of 100 PU_2015_119 y glycolipids are found in the exterior side of the Cell membrane not in the cytoplasmic side?
	Inner layer is not thick enough to accommodate carbohydrates
	Carbohydrates are removed from the cytoplasmic side by glycosylase
	These are added only to lipids on the lumen side of the ER and golgi membranes

	Flippases move the glycolipids to this side of the membrane
	of 100
	PU_2015_119 noclonal antibodies are secreted by hybridomas which are generated by:-
9	Fusion of immune spleen cells with plasmacytoma cells
	Growing immune spleen cells in the presence of HAT
	Growing immune spleen cells in the presence of B cells growth factors
0	Fusion of immune spleen cells with any type of cells capable of growing in tissue culture
270	PU_2015_119 ch contains both polar and nonpolar covalent bonds?
	HCN
	H_2O_2
	CH ₄
	NH_4CI
260 Occ C C	of 100 PU_2015_119 urrence of algal bloom in the aquatic ecosystem indicates? Nitrification Pollution Eutrophication Biomagnification
266	of 100 PU_2015_119 ra is put under the phylum Cnidaria because they have:-
0	Interstitial Cell
	Cnidoblasts
	Hypostome
0	Tentacles
264	of 100 PU_2015_119 ch of the following organisms larval form is known as Ephyra? Aurelia
	Hydra
	Sea anemone

	Obelia
296 Wh	of 100 5 PU_2015_119 ich of the following statement identify the biological magnification?
	Toxins become concentrated in successive trophic levels food web
	Toxins lost at each level in a food web
	Primary producers are at the bottom of the food chain
	Greenhouse effect having strong impact on tropical ecosystem
276 The	of 100 5 PU_2015_119 e empirical formula of a compound is CH ₂ then it will be:- Alkane
	Alkene
	Arene
	Alkyne
292 Wh	of 100 PU_2015_119 en a dominant epistasis is operative between two gene loci, the 9:3:3:1 ratio becomes modified into:- 12:3:1 9:3:4 15:1 9:6:4
278 Pho	of 100 8 PU_2015_119 btochemical smog is caused by:- CO CO ₂ NO ₂ O ₃
298	of 100 3 PU_2015_119 en coral reefs grow in shallow waters along the coast, it is called:- Ahermatypic corals Hard reef Fringing reef

	Coastal reef
288 In th	of 100 PU_2015_119 The ocean, the zone where availability of sunlight is not enough for the rate of photosynthesis to exceed biration is known as:-
	Neritic zone
	Coastal zone
	Aphotic zone
	Photic zone