

## 128 PU Ph D Microbiology

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165 PU-2016\_128\_E

Which of the following interaction can be studied using Electrophoretic mobility shift assay?

- ☐ Protein - RNA
- ☐ Protein - DNA
- ☐ Protein - Protein
- ☐ Protein - Nucleic acid

### 2 of 100

108 PU-2016\_128\_E

A good qualitative problem statement:-

- ☐ Conveys a sense of emerging design
- ☐ Specifies a research hypothesis to be tested
- ☐ Specifies the relationship between variables that the researcher expects to find
- ☐ Defines the independent and dependent variables

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216 PU-2016\_128\_E

The meninge lying closest to the spinal cord is the \_\_\_\_\_.

- ☐ Arachinoid mater
- ☐ Cauda equina
- ☐ Pia mater
- ☐ Dura mater

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192 PU-2016\_128\_E

Bordeaux mixture is a:-

- ☐ Herbicide
- ☐ Insecticide
- ☐ Helminthicide
- ☐ Fungicide

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132 PU-2016\_128\_E

The outcomes of an experiment are classified as:-

- ☐ exponential results
- ☐ results
- ☐ events

- ☐ logged events

#### 6 of 100

117 PU-2016\_128\_E

A positive correlation is present when \_\_\_\_\_.

- ☐ two variables move in opposite directions
- ☐ two variables move in the same direction
- ☐ one variable goes up and one goes down
- ☐ several variables never change

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113 PU-2016\_128\_E

Hypotheses in qualitative research studies usually \_\_\_\_\_.

- ☐ Are never used
- ☐ Are often generated as the data are collected, interpreted, and analyzed
- ☐ Are very specific and stated prior to beginning the study
- ☐ Are always stated after the research study has been completed

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160 PU-2016\_128\_E

The factor which promotes virulence of the M tuberculosis is:-

- ☐ Muramyl dipeptide
- ☐ Mycolic acid
- ☐ Wax D
- ☐ cord factor

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101 PU-2016\_128\_E

The research antagonistic to ex-post facto research is:-

- ☐ Normative researches
- ☐ practical research
- ☐ Experimental researches
- ☐ Library researches

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152 PU-2016\_128\_E

Which of the following is false about Wiskott - Aldrich syndrome?

- ☐ Vulnerability to infections
- ☐ Thrombocytopenia
- ☐ Associated eczema

- ☐ Elevated IgM

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149 PU-2016\_128\_E

The codon for anticodon 3'-CAU-5' is:-

- ☐ 3'-CAU-5'
- ☐ 3'-UAC-5'
- ☐ 3'-UAG-5'
- ☐ 3'-AUG-5'

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200 PU-2016\_128\_E

The most common type of reproduction in bacteria is:-

- ☐ binary fission
- ☐ sexual reproduction
- ☐ budding
- ☐ binary fusion

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104 PU-2016\_128\_E

A measure based upon a sample is known as:-

- ☐ Inference
- ☐ Statistics
- ☐ methods
- ☐ Sample parameter

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201 PU-2016\_128\_E

An autoimmune disease is:-

- ☐ Myasthenia gravis
- ☐ Asthma
- ☐ Haemophilia
- ☐ AIDS

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112 PU-2016\_128\_E

The research participants are described in detail in which section of the research plan?

- ☐ Method
- ☐ Discussion
- ☐ Introduction

- ☐ Data analysis

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164 PU-2016\_128\_E

RT-PCR is used in diagnosis of All except:-

- ☐ Polio virus
- ☐ Adeonvirus
- ☐ Astrovirus
- ☐ Rotavirus

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181 PU-2016\_128\_E

The methyl-accepting chemotaxis proteins of bacteria:-

- ☐ tell the bacterium which way to go
- ☐ integrate multiple signals through a two-component phospho-relay system
- ☐ can only sense conditions that are favorable for bacterial growth
- ☐ are directly connected to the flagellar motor to guide the bacterium

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Some bacteria are considered 'pleomorphic'. This means:-

- ☐ they are not either bacilli or cocci
- ☐ they do not have just one shape
- ☐ they are shaped like bent rods
- ☐ they have a corkscrew shape

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161 PU-2016\_128\_E

In which stage of the cell cycle, the diploid cell will have twice the amount of DNA as the gamete?

- ☐ G2 phase
- ☐ M phase
- ☐ G1 phase
- ☐ S phase

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208 PU-2016\_128\_E

The strain of fungi used for the large scale production of penicillin is:-

- ☐ *Penicillium notatum*
- ☐ *Streptomyces Aurecus*
- ☐ *Saccharomyces sps*

- ☐ *Penicillium chrysogenum*

**21 of 100**

209 PU-2016\_128\_E

The by-product during streptomycin production is:-

- ☐ Vitamin B12
- ☐ Vitamin A
- ☐ Citric acid
- ☐ Proline

**22 of 100**

168 PU-2016\_128\_E

After binding to the plasma membrane of its host cell, an influenza virus particle is taken into the cell by:-

- ☐ Receptor mediated endocytosis
- ☐ Exocytosis
- ☐ Clathrin coated vesicles
- ☐ Endocytosis

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204 PU-2016\_128\_E

The following is an asexual fungal spore:-

- ☐ Ascospore
- ☐ Chlamydospore
- ☐ Zygosporangium
- ☐ Basidiospore

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120 PU-2016\_128\_E

Which correlation is the strongest?

- ☐ +.10
- ☐ -1.00
- ☐ -.95
- ☐ +.90

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121 PU-2016\_128\_E

Analysis of covariance is:-

- ☐ A statistical technique that can be used to help equate groups on specific variables
- ☐ Adjusts scores on the independent variable to control for extraneous variables
- ☐ A statistical technique that substitutes for random assignment to groups

- ☐ A statistical technique that can be used to control sequencing effects

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212 PU-2016\_128\_E

If you take 1µl from a stock of 2 g % solution of compound A and make the final volume to 2 litres. What is the dilution factor and final concentration of compound A?

- ☐ 200 and 100 µg/ml
- ☐ 200000 and 100 µg/ml
- ☐ 200000 and 10µg/ml
- ☐ 200 and 10µg/ml

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The graft taken from a cadaver is:-

- ☐ Autograft
- ☐ Isograft
- ☐ Allograft
- ☐ Xenograft

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124 PU-2016\_128\_E

Which of the following is not one of the seven major parts to the research report?

- ☐ Results
- ☐ Footnotes
- ☐ Method
- ☐ Abstract

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Which organ has more hematopoiesis at the 4<sup>th</sup> month of gestation period?

- ☐ Liver & Spleen
- ☐ Yolk Sac
- ☐ Bone marrow
- ☐ Yolk Sac, Liver

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145 PU-2016\_128\_E

Darting motility is shown by:-

- ☐ Vibrio
- ☐ Proteus

- ☐ Serratia
- ☐ *E. coli*

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141 PU-2016\_128\_E

Which of the following marker is used to define B cells in humans?

- ☐ CD 4
- ☐ CD8
- ☐ CD19
- ☐ CD 20

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197 PU-2016\_128\_E

Alkylating agents:-

- ☐ Solubilize proteins
- ☐ Disrupts structure of protein and nucleic acid
- ☐ Dissolves lipid
- ☐ Lowers surface tension

**33 of 100**

176 PU-2016\_128\_E

The function of ruminant organisms is to:-

- ☐ digest cellulosic materials into organic acids which can be used as energy sources
- ☐ produce vitamin supplements and immunogens
- ☐ construct cellulose from organic acids and use the cellulose as an energy source
- ☐ produce methane gas and increase global warming

**34 of 100**

140 PU-2016\_128\_E

Somatic mutations of immunoglobulin genes account for:-

- ☐ allelic exclusion
- ☐ class switching from IgG to IgA
- ☐ affinity maturation
- ☐ class switching from IgM to IgG

**35 of 100**

184 PU-2016\_128\_E

The most dangerous and heat resistant spoilage organism in canning industry is:-

- ☐ *Bacillus subtilis*
- ☐ *Clostridium cellulolyticum*

- ☐ *E.coli*
- ☐ *Clostridium botulinum*

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156 PU-2016\_128\_E

Cellulase is a polymer of D-glucose:-

- ☐  $\alpha$ -1,6 linkage
- ☐  $\alpha$ -1,4 linkage
- ☐  $\beta$ -1,6 linkage
- ☐  $\beta$ -1,4 linkage

**37 of 100**

188 PU-2016\_128\_E

Fungal compound, cyclosporine is an extremely effective:-

- ☐ antibiotic
- ☐ immunosuppressant
- ☐ wound healing ointment
- ☐ stimulant

**38 of 100**

185 PU-2016\_128\_E

The first antibody to contact invading microorganisms was:-

- ☐ IgM
- ☐ IgA
- ☐ IgG
- ☐ IgD

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109 PU-2016\_128\_E

According to the text, which of the following orders is the recommended in the flowchart of the development of a research idea?

- ☐ Research topic, research problem, research purpose, research question, and hypothesis
- ☐ Research topic, research problem, research purpose, research question, hypothesis
- ☐ Research topic, research purpose, research problem, research question, hypothesis
- ☐ Research topic, hypothesis, research problem, research question, research purpose

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129 PU-2016\_128\_E

What does it mean if two variables have a positive correlation?

- ☐ As one variable increases, so does the other



- ☐ As one variable increases, the other decreases
- ☐ The correlation between the two variables is greater than 1.0
- ☐ The correlation between the two variables is 0

**41 of 100**

177 PU-2016\_128\_E

\_\_\_\_\_ is the process in which organic matter is decomposed to release simpler, inorganic compounds.

- ☐ Ammonification
- ☐ Mineralization
- ☐ Immobilization
- ☐ Nitrogen Fixation

**42 of 100**

173 PU-2016\_128\_E

In Gram Staining, alcohol acts on:-

- ☐ Membrane lipids
- ☐ Teichoic acids
- ☐ Periplasm
- ☐ Peptidoglycan

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116 PU-2016\_128\_E

In \_\_\_\_\_, random assignment to groups is never possible and the researcher cannot manipulate the independent variable.

- ☐ basic research
- ☐ causal-comparative and correlational research
- ☐ quantitative research
- ☐ experimental research

**44 of 100**

196 PU-2016\_128\_E

The main constituent of algal cell wall is:-

- ☐ Chitin
- ☐ Suberin
- ☐ Lignin
- ☐ Cellulose

**45 of 100**

148 PU-2016\_128\_E

The gene for green fluorescent protein (GFP), a commonly used reporter gene, was cloned from:-

- ☐ *Danio rerio*
- ☐ *Sus domesticus*
- ☐ *Vibrio cholera*
- ☐ *Equoreia victoria*

**46 of 100**

136 PU-2016\_128\_E

The key objective of data analysis is to:-

- ☐ Provide those reading the report with as much detail as possible about the survey results
- ☐ Calculate statistics
- ☐ Obtain the distribution of responses for each question and create tables which display the survey results
- ☐ Understand relationships between variables

**47 of 100**

205 PU-2016\_128\_E

Dipicolonic acid is present in:-

- ☐ Cyst
- ☐ Exospores
- ☐ Conidia
- ☐ Endospore

**48 of 100**

128 PU-2016\_128\_E

What is the final step of a scientific investigation?

- ☐ collect data
- ☐ determine whether the hypothesis was supported
- ☐ report the findings
- ☐ analyze data

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215 PU-2016\_128\_E

Subacute sclerosing panencephalitis (SSPE) is complication caused by infection with \_\_\_\_\_.

- ☐ Chickenpox virus
- ☐ HSV-1
- ☐ Influenza virus
- ☐ Measles virus

**50 of 100**

193 PU-2016\_128\_E

The causal organism of damping off of seedlings is:-

- ☐ *Pythium debaryanum*
- ☐ *Phytophthora infestans*
- ☐ *Alternaria solani*
- ☐ *Albugo candida*

**51 of 100**

189 PU-2016\_128\_E

Ergot disease is caused by:-

- ☐ Rhizopus
- ☐ Puccinia
- ☐ Claveiceps
- ☐ Penicillium

**52 of 100**

137 PU-2016\_128\_E

A dNTP master mix is prepared by combining 50 $\mu$ l each of 10mM dNTP stock. Two micro liters from this dNTP mix are added to the PCR master mix of 25 $\mu$ l reaction volume. What is the total dNTP concentration in the PCR reaction?

- ☐ 200 $\mu$ M
- ☐ 250 $\mu$ M
- ☐ 800 $\mu$ M
- ☐ 400 $\mu$ M

**53 of 100**

157 PU-2016\_128\_E

The consensus sequence required for the initiation of translation is termed:-

- ☐ Pribnow Box
- ☐ Shine Dalgarno Sequence
- ☐ TATA Box
- ☐ Kozak Sequence

**54 of 100**

100 PU-2016\_128\_E

Calculate the value of coefficient variation if mean of distribution is 14 and the standard deviation is 5.

- ☐ 60.4%
- ☐ 35.7%
- ☐ 48.3%
- ☐ 27.8%

**55 of 100**

211 PU-2016\_128\_E

Which microorganism is employed for the production of dextran?

- ☐ Rhizopus
- ☐ Torulopsis
- ☐ Leuconostoc
- ☐ Lactobacillus

**56 of 100**

144 PU-2016\_128\_E

Which of the following is not oncogenic ?

- ☐ Herpes simplex virus
- ☐ Varicella zoster virus
- ☐ EB virus
- ☐ Papilloma virus

**57 of 100**

172 PU-2016\_128\_E

Which of these is not a cell organelle?

- ☐ Ribosomes
- ☐ Nucleus
- ☐ Ribozymes
- ☐ Mitochondrion

**58 of 100**

133 PU-2016\_128\_E

If a bag contains three fruits, 16 percent are apples, 30 percent are oranges and 20 percent some other fruit that is neither oranges nor apples then the probability of selecting an orange randomly is:-

- ☐ 0.45
- ☐ 0.3
- ☐ 0.034
- ☐ 0.65

**59 of 100**

125 PU-2016\_128\_E

Open-ended questions provide primarily \_\_\_\_\_ data.

- ☐ Confirmatory data
- ☐ Quantity data
- ☐ Predictive data
- ☐ Qualitative data

**60 of 100**

105 PU-2016\_128\_E

Researches that relies on experience or observation is called:-

- ☐ Exploratory research
- ☐ Simulation research
- ☐ Conceptual research
- ☐ Empirical research

**61 of 100**

249 PU-2016\_128\_M

Mangroves are highly productive eco system but they are poor in bird diversity because:-

- ☐ Lack of structural diversity
- ☐ More number of predators that feed on birds
- ☐ Lack of breeding place
- ☐ Lack of food diversity

**62 of 100**

237 PU-2016\_128\_M

Polio virus has:-

- ☐ dsDNA
- ☐ ds RNA
- ☐ ssDNA
- ☐ ssRNA

**63 of 100**

229 PU-2016\_128\_M

The most sensitive method of detecting infection by cytomegalovirus (CMV) in the new born is:-

- ☐ isolation of the virus
- ☐ direct detection of antigen by ELISA
- ☐ detection of IgM antibody by immunofluorescence
- ☐ identification of characteristic cells in gastric secretions

**64 of 100**

252 PU-2016\_128\_M

Which of the following lymphoid organ is important to clear blood born pathogen?

- ☐ lymph node
- ☐ pancreas
- ☐ Thymus
- ☐ Spleen

65 of 100

256 PU-2016\_128\_M

The reference compound of choice for proton and carbon NMR is:-

- ☐ Tetramethylsilane
- ☐ DMSO-d<sub>6</sub>
- ☐ chloroform-d (DCCl<sub>3</sub>)
- ☐ deuterium oxide (D<sub>2</sub>O)

66 of 100

257 PU-2016\_128\_M

When pathogenic bacterial cells lose the ability to make adhesion, they:-

- ☐ Absorb endotoxin
- ☐ Increase in virulence
- ☐ Produce endotoxin
- ☐ Become avirulent

67 of 100

233 PU-2016\_128\_M

The complete denaturation of a protein leads to a loss of the following structure(s):-

- ☐ primary and tertiary
- ☐ primary and secondary
- ☐ secondary and tertiary
- ☐ primary

68 of 100

244 PU-2016\_128\_M

Biological false reaction in VDRL is related to:-

- ☐ *Lactobacilli*
- ☐ *Bordetella pertussis*
- ☐ *Corynebacterium diphtheria*
- ☐ *Lepra bacilli*

69 of 100

225 PU-2016\_128\_M

Which of the following does not apply to triplex DNA?

- ☐ It requires only Hoogsteen hydrogen bonding
- ☐ It is triple stranded in nature
- ☐ It requires Watson-Crick hydrogen bonding
- ☐ It forms at neutral or acidic pH

**70 of 100**

224 PU-2016\_128\_M

The oxygen solubility in a bioreactor depends upon:-

- ☐ Aeration
- ☐ Agitation
- ☐ Both Agitation and Aeration
- ☐ Viscosity and surface tension

**71 of 100**

245 PU-2016\_128\_M

Which of the following cytokine is ligand for IL-4 receptor?

- ☐ IL-13
- ☐ IL-4
- ☐ IL-7
- ☐ both IL-4 & IL-13

**72 of 100**

240 PU-2016\_128\_M

Enzymes responsible for alcoholic fermentation:-

- ☐ Peroxidase
- ☐ Zymase
- ☐ Ketolase
- ☐ Oxidase

**73 of 100**

221 PU-2016\_128\_M

Is not an onco virus or tumor virus:-

- ☐ *Hepatitis B*
- ☐ *Varicella virus*
- ☐ *Simian virus 40*
- ☐ *Epstein-Bar virus*

**74 of 100**

220 PU-2016\_128\_M

Marine bacteria change their morphology in response to the nutrients in their surrounding environment and the phenomenon is referred as:-

- ☐ Oligotrophism
- ☐ Syntrophism
- ☐ Heterotrophism

- ☐ Pleomorphism

**75 of 100**

236 PU-2016\_128\_M

Is not a factor responsible for the pathogenecity of virulent *Staphylococcus aureus*:-

- ☐ coagulase
- ☐  $\beta$  -lactamase
- ☐ hyaluronidase
- ☐ m- protein

**76 of 100**

248 PU-2016\_128\_M

Which of the following antibodies can be used in flowcytometry to study STAT5 phophorylation in mast cells?

- ☐ Anti STAT5 conjugated with FITC
- ☐ Anti-phospho STAT5 conjugated with biotin
- ☐ Anti-phospho STAT5 conjugated with FITC
- ☐ Anti-phospho STAT6

**77 of 100**

253 PU-2016\_128\_M

Which technology can be used to validate microarray data?

- ☐ qRT-PCR
- ☐ PCR
- ☐ RT-PCT
- ☐ nested PCR

**78 of 100**

228 PU-2016\_128\_M

The 5<sup>th</sup> human malarial parasite is:-

- ☐ *Plasmodium yoellii*
- ☐ *Plasmodium fragile*
- ☐ *Plasmodium knowlesi*
- ☐ *Plasmodium cynomolgi*

**79 of 100**

232 PU-2016\_128\_M

Disulphide bonds in proteins could be formed by cysteines using:-

- ☐ reduced glutathione
- ☐ oxidized glutathione



- ☐ Iodoacetamide
- ☐  $\beta$ -mercaptoethanol

**80 of 100**

241 PU-2016\_128\_M

Which vector would be most appropriate for cloning a 150 kb fragment of DNA?

- ☐  $\lambda$  vector
- ☐ BAC
- ☐ pBR322
- ☐ YAC

**81 of 100**

298 PU-2016\_128\_D

A taxon is:-

- ☐ New taxonomist
- ☐ Herbal taxonomist
- ☐ A group of related families
- ☐ Modern taxonomist

**82 of 100**

269 PU-2016\_128\_D

The serological marker of acute hepatitis B infection is:-

- ☐ HBsAg
- ☐ HBcAg
- ☐ HBsAg + HBeAg
- ☐ HBsAg + Core antibody

**83 of 100**

274 PU-2016\_128\_D

How many structural genes are there in trp operon?

- ☐ three
- ☐ Five
- ☐ four
- ☐ six

**84 of 100**

266 PU-2016\_128\_D

In a non-obligatory interaction if both partners are mutually benefitted it is called as:-

- ☐ Commensalism
- ☐ Mutualism

- ☐ Cooperation
- ☐ Competition

**85 of 100**

289 PU-2016\_128\_D

Which of the following stem cells are currently used to treat diseases?

- ☐ embryonic stem cells
- ☐ Hematopoietic Stem cells
- ☐ Neural stem cell
- ☐ induced pluripotent stem cells

**86 of 100**

297 PU-2016\_128\_D

The national herbarium in our country is located in:-

- ☐ Chennai
- ☐ Mumbai
- ☐ Delhi
- ☐ Kolkata

**87 of 100**

261 PU-2016\_128\_D

Which of the following viruses are widely used in living vaccines?

- ☐ Coronavirus
- ☐ Retrovirus
- ☐ Vaccinia virus
- ☐ Influenza virus

**88 of 100**

293 PU-2016\_128\_D

Which of the following is dominated by plants that drop their leaves yearly to conserve water?

- ☐ Desert
- ☐ Coniferous forest
- ☐ Tropical rain forest
- ☐ Temperate deciduous forest

**89 of 100**

281 PU-2016\_128\_D

Induced pluripotent stem cells have the same developmental potential as:-

- ☐ Hematopoietic stem cells
- ☐ Cancer stem cells

- ☐ Neural Stem cells
- ☐ Embryonic stem cells

#### 90 of 100

285 PU-2016\_128\_D

All of the following are known to be part of a signal transduction cascade EXCEPT:-

- ☐ Phosphorylation of fibronectin
- ☐ Elevation of intracellular  $[Ca^{2+}]$
- ☐ Dissociation of the components of a heterotrimeric G-protein
- ☐ Enzymatic breakdown of phosphatidyl inositol bisphosphate (PIP2)

#### 91 of 100

270 PU-2016\_128\_D

Release of nutrients, oxidants or electron donors into the environment to stimulate naturally occurring microorganisms to degrade a contaminant, is referred to as:-

- ☐ Biostimulation
- ☐ Bioremediation
- ☐ Bioaugmentation
- ☐ Phytoremediation

#### 92 of 100

273 PU-2016\_128\_D

The free energy released from the *oxidation of pyruvate by the pyruvate dehydrogenase complex* is stored in what energy-rich molecule?

- ☐ Thiamine Pyrophosphate
- ☐ NADH and Acetyl-CoA
- ☐  $FADH_2$
- ☐ Acetyl-CoA

#### 93 of 100

290 PU-2016\_128\_D

Particular RNAs that are important for development are located in distinct regions of the *Drosophila* embryo. This is most directly demonstrated by using:-

- ☐ Western blotting
- ☐ *in vitro* translation
- ☐ Northern blotting
- ☐ *in situ* hybridization

#### 94 of 100

262 PU-2016\_128\_D

A minimal medium contains 0.0002%  $MnCl_2$ . To prepare 200 ml of the medium \_\_\_\_\_ ml should be taken from a solution of  $MnCl_2$  0.2 g%?

- ☐ 0.2 ml
- ☐ 20 ml
- ☐ 0.02 ml
- ☐ 2.0 ml

**95 of 100**

286 PU-2016\_128\_D

Which of the following method is used to study gene expression from single cell?

- ☐ Flowcytometry
- ☐ insitu hybridization
- ☐ qRT-PCR
- ☐ Northern Blot

**96 of 100**

294 PU-2016\_128\_D

If less light falls on the pond's surface:-

- ☐ The Size of fish population is no way connected with amount of light falling on a pond
- ☐ Size of fishes become larger
- ☐ The size of fish population become smaller
- ☐ Mutation will take place in fishes

**97 of 100**

277 PU-2016\_128\_D

Neisseria spp. causes two dangerous diseases in humans. They are:-

- ☐ Gonorrhea and Meningitis
- ☐ Typhoid and Plague
- ☐ Diphtheria and Syphilis
- ☐ Pneumonia and Diphtheria

**98 of 100**

265 PU-2016\_128\_D

mRNA nucleotide modification is performed by:-

- ☐ snRNA
- ☐ guide RNA
- ☐ tRNA
- ☐ Y RNA

**99 of 100**

282 PU-2016\_128\_D

Which of the following types of molecules is always found in virions?

- ☐ Lipid
- ☐ RNA
- ☐ Protein
- ☐ DNA

**100 of 100**

278 PU-2016\_128\_D

Diphtheria toxin inhibits protein synthesis through:-

- ☐ Inhibiting peptide bond formation
- ☐ Release of peptidyl tRNA from P site
- ☐ Causing formation of ADP-EF2 complex
- ☐ Binding of factor EF-1