128 PU Ph D Microbiology

165	f 100 PU-2016_128_E ich of the following interaction can be studied using Electrophoretic mobility shift assay?
0	Protein - RNA
0	Protein - DNA
0	Protein - Protein
0	Protein - Nucleic acid
108 A g	f 100 PU-2016_128_E ood qualitative problem statement:-
0	Conveys a sense of emerging design
0	Specifies a research hypothesis to be tested
0	Specifies the relationship between variables that the researcher expects to find
0	Defines the independent and dependent variables
216	f 100 PU-2016_128_E meninge lying closest to the spinal cord is the
_	Arachinoid mater
0	Cauda equina
0	Pia mater
О	Dura mater
192	f 100 PU-2016_128_E deaux mixture is a:-
0	Herbicide
0	Insecticide
0	Helminthicide
0	Fungicide
132	f 100 PU-2016_128_E outcomes of an experiment are classified as:-
0	exponential results
0	results
0	events

0	logged events
117 A po	F 100 PU-2016_128_E positive correlation is present when
0	two variables move in opposite directions
0	two variables move in the same direction
0	one variable goes up and one goes down
0	several variables never change
113 Hyp	F 100 PU-2016_128_E otheses in qualitative research studies usually
0	Are never used
0	Are often generated as the data are collected, interpreted, and analyzed
0	Are very specific and stated prior to beginning the study
0	Are always stated after the research study has been completed
160	F 100 PU-2016_128_E factor which promotes virulence of the M tuberculosis is:- Muramyl dipepide
_	Mycolic acid
0	Wax D
0	cord factor
101 The	F 100 PU-2016_128_E research antagonistic to ex-post facto research is:-
0	Normative researches
0	practical research
0	Experimental researches
0	Library researches
152 Whi	of 100 PU-2016_128_E ch of the following is false about Wiskott - Aldrich syndrome?
0	Vulnerability to infections
0	Thrombocytopenia
0	Associated eczema

0	Elevated IgM
149 The	of 100 PU-2016_128_E codon for anticodon 3'-CAU-5' is:-
0	3'-CAU-5'
	3'-UAC-5'
0	3'-UAG-5'
0	3'-AUG-5'
200	PU-2016_128_E most common type of reproduction in bacteria is:- binary fission
0	sexual reproduction
0	budding
0	binary fusion
104	PU-2016_128_E easure based upon a sample is known as:- Inference Statistics methods Sample parameter
201	of 100 PU-2016_128_E autoimmune disease is:-
0	Myasthenia gravis
0	Asthma
0	Haemophilia
0	AIDS
112	PU-2016_128_E research participants are described in detail in which section of the research plan?
0	Method
0	Discussion Introduction
	HILOGOGOTI

0	Data analysis
164	of 100 PU-2016_128_E PCR is used in diagnosis of All except:-
0	Polio virus
0	Adeonvirus
0	Astrovirus
0	Rotavirus
181 The	of 100 PU-2016_128_E methyl-accpeting chemotaxis proteins of bacteria:-
0	tell the bacterium which way to go
0	integrate multiple signals through a two-component phospho-relay system
0	can only sense conditions that are favorable for bacterial growth
0	are directly connected to the flagellar motor to guide the bacterium
180	PU-2016_128_E ne 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
161 In w	of 100 PU-2016_128_E hich stage of the cell cycle, the diploid cell will have twice the amount of DNA as the gamete?
0	G2 phase
0	M phase
0	G1 phase
O	S phase
208	of 100 PU-2016_128_E estrain of fungi used for the large scale production of penicillin is:-
0	Penicillium notatum
0	Streptomyces Aurecus
4,	Saccharomyces sps

0	Penicillium chrysogenum
209	of 100 PU-2016_128_E by-product during streptomycin production is:-
0	Vitamin B12
0	Vitamin A
0	Citric acid
0	Proline
168 Afte	of 100 PU-2016_128_E er binding to the plasma membrane of its host cell, an influenza virus particle is taken into the cell by:-
0	Receptor mediated endocytosis
0	Exocytosis
0	Clathrin coated vesicles
0	Endocytosis
204	of 100 PU-2016_128_E following is an asexual fungal spore:- Ascospore Chlamydospore Zygospore
24 120	Basidiospore of 100 PU-2016_128_E
Whi	ich correlation is the strongest?
0	+.10
0	-1.00
0	95
	+.90
121 Ana	of 100 PU-2016_128_E alysis of covariance is:-
0	A statistical technique that can be used to help equate groups on specific variables
0	Adjusts scores on the independent variable to control for extraneous variables
0	A statistical technique that substitutes for random assignment to groups

0	A statistical technique that can be used to control sequencing effects
212 If yo	of 100 PU-2016_128_E Ou take 1µl from a stock of 2 g % solution of compound A and make the final volume to 2 litres. What the dilution factor and final concentration of compound A?
0	200 and 100 μg/ml
0	200000 and 100 μg/ml
0	200000 and 10μg/ml
0	200 and 10μg/ml
169 The	of 100 PU-2016_128_E graft taken from a cadaver is:- Autograft Isograft
0	Allograft
0	Xenograft
124 Wh	of 100 PU-2016_128_E ich of the following is not one of the seven major parts to the research report?
0	Results
0	Footnotes
0	Method
0	Abstract
153 Wh	of 100 PU-2016_128_E ich organ has more hematopoiesis at the 4 th month of gestation period?
0	Liver & Spleen
0	Yolk Sac
0	Bone marrow
0	Yolk Sac, Liver
30 of 100 145 PU-2016_128_E Darting motility is shown by:-	
0	Vibrio
0	Proteus

0	Serratia
0	E. coli
141	of 100 PU-2016_128_E ch of the following marker is used to define B cells in humans? CD 4 CD8 CD19
197	CD 20 of 100 PU-2016_128_E vlating agents:- Solubilize proteins
0	Distrupts structure of protein and nucleic acid
0	Dissolves lipid
0	Lowers surface tension
	Lowers surface tension
176	of 100 PU-2016_128_E function of ruminant organisms is to:-
0	digest cellulosic materials into organic acids which can be used as energy sources
\circ	produce vitamin supplements and immunogens
\circ	construct cellulose from organic acids and use the cellulose as an energy source
0	produce methane gas and increase global warming
140 Son	of 100 PU-2016_128_E natic mutations of immunoglobulin genes account for:-
0	allelic exclusion
0	class switching from IgG to IgA
0	affinity maturation
0	class switching from IgM to IgG
184 The	of 100 PU-2016_128_E most dangerous and heat resistant spoilage organism in canning industry is:-
0	Bacillus subtilis
U	Clostridium cellulolyticum

0	E.coli
0	Clostridium botulinum
156	of 100 PU-2016_128_E ulase is a polymer of D-glucose:-
0	α-1,6 linkage
0	α-1,4 linkage
0	β-1,6 linkage
0	β-1,4 linkage
188	PU-2016_128_E gal compound, cyclosporine is an extremely effective:- antibiotic immunosuppressant wound healing ointment stimulant
185 The	of 100 PU-2016_128_E first antibody to contact invading microorganisms was:- IgM IgA
0	IgG
0	IgD
109 Acc dev	of 100 PU-2016_128_E ording to the text, which of the following orders is the recommended in the flowchart of the elopment of a research idea?
0	Research topic, research problem, research purpose, research question, and hypothesis
0	Research topic, research problem, research purpose, research question, hypothesis
0	Research topic, research purpose, research problem, research question, hypothesis
0	Research topic, hypothesis, research problem, research question, research purpose
129	PU-2016_128_E at does it mean if two variables have a positive correlation?
	As one variable increases, so does the other

0	As one variable increases, the other decreases
0	The correlation between the two variables is greater than 1.0
0	The correlation between the two variables is 0
177	of 100 PU-2016_128_E is the process in which organic matter is decomposed to release simpler, inorganic nounds.
O	Ammonification
0	Mineralization
0	Immobilization
0	Nitrogen Fixation
173 In G	of 100 PU-2016_128_E Gram Staining, alcohol acts on:-
0	Membrane lipids
0	Teichoic acids
0	Periplasm
0	Peptidoglycan
116 In _	of 100 PU-2016_128_E, random assignment to groups is never possible and the researcher cannot manipulate the ependent variable.
0	basic research
0	causal-comparative and correlational research
0	quantitative research
0	experimental research
196	of 100 PU-2016_128_E main constituent of algal cell wall is:-
	Chitin
0	Suberin
0	Lignin
O	Cellulose
45	of 100

148 PU-2016_128_E
The gene for green fluorescent protein (GFP), a commonly used reporter gene, was cloned from:-

0	Danio rerio
\circ	Sus dometicus
0	Vibrio cholera
0	Equorea victoria
136	PU-2016_128_E 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 allts Understand relationships between variables
205	PU-2016_128_E colonic acid is present in:- Cyst Exospores Conidia Endospore
128	PU-2016_128_E at is the final step of a scientific investigation? collect data determine whether the hypothesis was supported report the findings analyze data
215 Sub C C	PU-2016_128_E acute sclerosing panencephalitis (SSPE) is complication caused by infection with Chickenpox virus HSV-1 Influenza virus Measles virus
193	PU-2016_128_E

_	causal organism of damping off of seedlings is:-
0	Pythium debaryanum
0	Phytopthora infestans
0	Alternaria solani
0	Albugo candida
189	of 100 PU-2016_128_E ot disease is caused by:- Rhizopus Puccinia
0	Claveceps
52 137 A dl dNT	Penicillium of 100 PU-2016_128_E NTP master mix is prepared by combining 50µl each of 10mM dNTP stock. Two micro liters from this TP mix are added to the PCR master mix of 25µl reaction volume. What is the total dNTP centration in the PCR reaction? 200µM 250µM 800µM 400µM
157	of 100 PU-2016_128_E consensus sequence required for the initiation of translation is termed:- Pribnow Box Shine Dalgarno Sequence TATA Box Kozak Sequence
100	PU-2016_128_E culate the value of coefficient variation if mean of distribution is 14 and the standard deviation is 5. 60.4% 35.7%
-	48.3%

211	of 100 PU-2016_128_E ich microorganism is employed for the production of dextran?
0	Rhizopus
0	Torulopsis
0	Leuconostoc
0	Lactobacillus
144 Whi	of 100 PU-2016_128_E ich of the following is not oncogenic?
0	Herpes simplex virus
0	Varicella zoster virus
0	EB virus
0	Papilloma virus
172	of 100 PU-2016_128_E ich of these is not a cell organelle?
0	Ribosomes
\circ	Nucleus
\circ	Ribozymes
0	Mitochondrion
133 If a fruit	of 100 PU-2016_128_E bag contains three fruits, 16 percent are apples, 30 percent are oranges and 20 percent some other that is neither oranges nor apples then the probability of selecting an orange randomly is:- 0.45
0	0.3
0	0.034
O	0.65
125 Оре	of 100 PU-2016_128_E en-ended questions provide primarily data.
0	Confirmatory data
0	Quantity data
0	Predictive data
0	Qualitative data

105 Res	of 100 PU-2016_128_E earches that relies on experience or observation is called:-
0	Exploratory research
0	Simulation research
0	Conceptual research
0	Empirical research
249	PU-2016_128_M agroves 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
237	of 100 PU-2016_128_M o virus has:-
0	dsDNA
0	ds RNA
0	ssDNA
0	ssRNA
229	of 100 PU-2016_128_M most sensitive method of detecting infection by cytomegalovirus (CMV) in the new born is:- isolation of the virus
0	direct detection of antigen by ELISA
0	detection of IgM antibody by immunofluorescence
	identification of characteristic cells in gastric secretions
252	of 100 PU-2016_128_M ch of the following lymphoid organ is important to clear blood born pathogen?
0	lymph node
0	pancreas
0	Thymus
0	Spleen

256 The	of 100 PU-2016_128_M reference compound of choice for proton and carbon NMR is:-
0	Tetramethylsilane
0	DMSO-d ₆
0	chloroform-d (DCCl ₃)
0	deuterium oxide (D ₂ O)
257	PU-2016_128_M en pathogenic bacterial cells lose the ability to make adhesion, they:- Absorb endotoxin Increase in virulence Produce endotoxin Become avirulent
233	PU-2016_128_M complete denaturation of a protein leads to a loss of the following structure(s):- primary and tertiary primary and secondary secondary and tertiary primary
244	PU-2016_128_M ogical false reaction in VDRL is related to:- Lactobacilli Bordetella pertussis Corynebacterium diphtheria Lepra bacilli
225 Whi	of 100 PU-2016_128_M ch of the following does not apply to triplex DNA?
0	It requires only Hoogstein hydrogen bonding
0	It is triple stranded in nature
0	It requires Watson-Crick hydrogen bonding
0	It forms at neutral or acidic pH

224	of 100 PU-2016_128_M oxygen solubility in a bioreactor depends upon:-
0	Aeration
0	Agitation
0	Both Agitation and Aeration
0	Viscosity and surface tension
245	of 100 5 PU-2016_128_M ich of the following cytokine is ligand for IL-4 receptor? IL-13
0	IL-4
0	IL-7
0	both IL-4 & IL-13
240	of 100 PU-2016_128_M symes responsible for alcoholic fermentation:- Peroxidase Zymase
0	Ketolase
0	Oxidase
221	of 100 PU-2016_128_M ot an onco virus or tumor virus:- Hepatitis B Vericella virus
0	Simian virus 40
0	Epstein-Bar virus
220 Mai and	of 100 PU-2016_128_M rine bacteria change their morphology in response to the nutrients in their surrounding environment the phenomenon is referred as:-
0	Oligotrophism
0	Syntrophism
0	Heterotrophism

О	Pleomorphism
236 Is n	of 100 6 PU-2016_128_M not a factor responsible for the pathogenecity of virulent Staphylococcus aureus:-
0	coagulase
0	β -lactamase
0	hyaluronidase
0	m- protein
248 Wh cell	of 100 3 PU-2016_128_M ich of the following antibodies can be used in flowcytometry to study STAT5 phophorylation in mast s?
0	Anti STAT5 conjugated with FITC
0	Anti-phospho STAT5 conjugated with biotin
0	Anti-phospho STAT5 conjugated with FITC
0	Anti-phospho STAT6
253	of 100 B PU-2016_128_M ich technology can be used to validate microarray data?
0	qRT-PCR
0	PCR
0	RT-PCT
0	nested PCR
	of 100 B PU-2016_128_M e 5 th human malarial parasite is:-
0	Plasmodium yoellii
0	Plasmodium fragile
0	Plasmodium knowlesi
0	Plasmodium cynomolgi
79 of 100 232 PU-2016_128_M Disulphide bonds in proteins could be formed by cysteines using:-	
0	reduced glutathione
0	oxidized glutathione

0	Iodoacetamide
0	β -mercaptoethanol
241	of 100 PU-2016_128_M ch vector would be most appropriate for cloning a 150 kb fragment of DNA?
0	λ vector
_	BAC
0	pBR322
0	YAC
298 A ta	of 100 PU-2016_128_D xon is:-
0	New taxonomist
0	Herbal taxonomist
0	A group of related families
0	Modern taxonomist
269 The	of 100 PU-2016_128_D serological marker of acute hepatitis B infection is:-
0	HBsAg
0	HBcAg
0	HBsAg + HBeAg
0	HBsAg + Core antibody
274 How	of 100 PU-2016_128_D many structural genes are there in trp operon?
0	three
0	Five
0	four
0	six
266	PU-2016_128_D non-obligatory interaction if both partners are mutually benefitted it is called as:-
_	Commensalism
0	Mutualism

0	Cooperation
0	Competition
289 Whi	of 100 PU-2016_128_D ch 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 c 297 The	of 100 PU-2016_128_D national herbarium in our country is located in:-
0	Chennai
0	Mumbai
0	Delhi
0	Kolkata
261 Whi	PU-2016_128_D ch of the following viruses are widely used in living vaccines? Coronavirus Retrovirus Vaccinia virus Influenza virus
293	of 100 PU-2016_128_D ch of the following is dominated by plants that drop their leaves yearly to conserve water?
0	Desert
0	Coniferous forest
0	Tropical rain forest
	Temperate deciduous forest
281	of 100 PU-2016_128_D Indeed pluripotent stem cells have the same developmental potential as:-
0	Hematopoietic stem cells
0	Cancer stem cells

0	Neural Stem cells
	Embryonic stem cells
285	of 100 PU-2016_128_D of the following are known to be part of a signal transduction cascade EXCEPT:-
0	Phosphorylation of fibronectin
0	Elevation of intracellular [Ca2+]
0	Dissociation of the components of a heterotrimeric G-protein
0	Enzymatic breakdown of phosphatidyl inositol bisphosphate (PIP2)
270 Rel	of 100 PU-2016_128_D ease of nutrients, oxidants or electron donors into the environment to stimulate naturally occurring roorganisms to degrade a contaminant, is referred to as:-
0	Biostimulation
	Bioremediation
0	Bioaugmentaiton
0	Phytoremediation
273 The	of 100 PU-2016_128_D free energy released from the <i>oxidation of pyruvate by the pyruvate dehydrogenasecomplex is stored</i> that energy-rich molecule?
\circ	Thiamine Pyrophosphate
0	NADH and Acetyl-CoA
0	FADH ₂
0	Acetyl-CoA
290 Par	of 100 PU-2016_128_D ticular RNAs that are important for development are located in distinct regions of the <i>Drosophila</i> bryo. This is most directly demonstrated by using:-
0	Western blotting
000	in vitro translation
	Northern blotting
	in situ hybridization
262 A m	of 100 PU-2016_128_D hinimal medium contains 0.0002% MnCl ₂ . To prepare 200 ml of the medium ml uld be taken from a solution of MnCl ₂ 0.2 g%?

0000	0.2 ml 20 ml 0.02 ml 2.0 ml
286	PU-2016_128_D ich of the following method is used to study gene expression from single cell? Flowcytometry insitu hybridization qRT-PCR Northern Blot
294	PU-2016_128_D ss 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
277	of 100 PU-2016_128_D sseria spp. causes two dangerous diseases in humans. They are:- Gonorrhea and Meningitis Typhoid and Plague Diphtheria and Syphilis Pneumonia and Diphtheria
265 mR O O	of 100 PU-2016_128_D NA nucleotide modification is performed by:- snRNA guide RNA tRNA Y RNA of 100
	PII-2016 128 D

282 PU-2016_128_D
Which of the following types of molecules is always found in virions?

200	
\cup	Lipid
0	RNA
0	Protein
0	DNA
278 Dipl	of 100 PU-2016_128_D htheria toxin inhibits protein synthesis through:-
0	Inhibiting peptide bond formation
0	Release of peptidyl tRNA from P site
0	Causing formation of ADP-EF2 complex
0	Binding of factor EF-1