In the series 357,363,369, What will be the 10th term?  Alt1 405  Alt2 411  Alt3 413  Alt4 417  2 Choose word from the given options which bears the same relationship to the third word, as the first two bears: Moon: Satellite :: Earth : ?  Alt1 Sun  Alt2 Planet  Alt3 Solar System  Alt4 Asteroid  3 Door is related to Bang in the same way as Chain is related to?  Alt1 Thunder  Alt2 Clinch  Alt3 Tinkle  Alt4 Clank  4 Select the lettered pair that has the same relationship as the original pair of words:	Sr No.	PhD Zoology
Alt1 405 Alt2 411 Alt3 413 Alt4 417  Choose word from the given options which bears the same relationship to the third word, as the first two bears: Moon: Satellite :: Earth : ?  Alt1 Sun Alt2 Planet Alt3 Solar System Alt4 Asteroid  3 Door is related to Bang in the same way as Chain is related to? Alt1 Thunder Alt2 Clinch Alt3 Tinkle Alt4 Clank	1	
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Alt4 Asteroid  3 Door is related to Bang in the same way as Chain is related to?  Alt1 Thunder  Alt2 Clinch  Alt3 Tinkle  Alt4 Clank	Alt1	Sun
Alt4 Asteroid  3 Door is related to Bang in the same way as Chain is related to?  Alt1 Thunder  Alt2 Clinch  Alt3 Tinkle  Alt4 Clank	Alt2	Planet
3 Door is related to Bang in the same way as Chain is related to?  Alt1 Thunder  Alt2 Clinch  Alt3 Tinkle  Alt4 Clank	Alt3	Solar System
Alt1 Thunder  Alt2 Clinch  Alt3 Tinkle  Alt4 Clank	Alt2	Asteroid
Alt1 Thunder  Alt2 Clinch  Alt3 Tinkle  Alt4 Clank		
Alt2 Clinch Alt3 Tinkle Alt4 Clank	3	Door is related to Bang in the same way as Chain is related to?
Alt3 Tinkle Alt4 Clank	Alt1	Thunder
Alt4 Clank	Alt2	Clinch
	Alt3	Tinkle
4 Select the lettered pair that has the same relationship as the original pair of words:	Alt4	Clank
4 Select the lettered pair that has the same relationship as the original pair of words:		
	4	Select the lettered pair that has the same relationship as the original pair of words:
Emollient: Soothe		Emollient: Soothe
Alt1 Dynamo: Generate	Alt1	Dynamo: Generate
Alt2 Elevation: Level	Alt2	Elevation: Level
Alt3 Hurricane: Track	Alt3	Hurricane: Track
Alt4 Precipitation: Fall	Alt4	Precipitation: Fall
5 Which of the following is the same as Count, List, Weight?	5	Which of the following is the same as Count, List, Weight?
Alt1 Compare		
Alt2 Sequence		
Alt3 Number		
Alt4 Measure	Alt4	Measure
6 Spot the defective segment from the following:		
Alt1 The downtrodden		
Alt2 needs		
Alt3 to be uplifted		
Alt4 on a war footing	Alt4	on a war footing
7 Choose the meaning of the idiom/phrase from among the options given:	7	
A close shave		
Alt1 a nice glance		
Alt2 a narrow escape		
Alt3 an intimate  Alt4 a triviality		

8	Lightning in the same place twice.
Alt1	doesn't hit
Alt2	never strikes
Alt3	never attacks
Alt4	never falls
9	Choose the option closest in meaning to the given word:
	FLIPPANT
Alt1	serious
Alt2	unsteady
	irreverent
Alt4	caustic
10	Choose the antonymous option you consider the best:
10	OBSOLETE
Δl+1	obscure
	hackneyed
	current
AII4	grasp
11	Alach seared 72 marks in subject A. He seared ECO/ marks in subject D and V marks in subject C. Mavimum
11	Akash scored 73 marks in subject A. He scored 56% marks in subject B and X marks in subject C. Maximum
	marks in each subject were 150. The overall percentage marks obtained by Akash in sall te three subjects were
Alia	54%. How many marks did he score in subject C?
Alt1	
Alt2	
Alt3	
Alt4	73
12	A person starts from his house and travels 6 Km towards the West, he then travelled 4 Km towards his left
	and then travels 8 Km towards west and 3 Km towards South. Finally he turns right and travels 5 Km. What is the
	horizontal distance he has travelled from his house ?
	7 Km
	15 Km
Alt3	23 Km
Alt4	19 Km
13	If 1st Jan 2012 is a Tuesday then on which day of the week will 1st Jan 2013 fall ?
Alt1	Wednesday
Alt2	Thursday
Alt3	Friday
Alt4	Saturday
14	One morning after sunrise, Reeta and Kavita were talking to each other face to face at University. If Kavita'
	shadow was exactly to the right of Reeta, which direction was Kavita facing?
Alt1	North
Alt2	South
Alt3	East

Alt4	West
15	In an exam every candidate took History (or)Geography(or)both. 74.8%took History and 50.2% took Geography.
	If the Total number of candidates is 1500, how many took History and Geography both?
Alt1	400
Alt2	350
Alt3	750
Alt4	375
16	Which word includes the larger % of Vowels?
Alt1	GOOGLE
Alt2	AMAZON
Alt3	FACE BOOK
Alt4	DOE
17	A= Least prime >24;
	B=Greatest prime <28; Then
Alt1	
Alt2	A <b< th=""></b<>
Alt3	
	None
18	CL X VIII refers
Alt1	
Alt2	701
Alt3	
Alt4	107
19	Which of the following is larger than 3/5 ?
Alt1	
	39/50
	7/25
	59/100
20	Mr. Babu travelled 1200 km by air which formed 2/5 of his trip. One third of the whole trip, he travelled by car
	and the rest of the journey was by train. What was the distance travelled by train?
Alt1	600km
	700 km
	800 km
	900 km
21	The phylum in which all the representative animals are marine is
Alia	Cnidaria
Alt1	

Alt2	Porifera
Alt3	Annelida
Alt4	Echinodermata
22	Which one of the following is an exotic Indian fish
Alt1	<i>Heteropneustes fossilis </i>
Alt2	<i>Cyprinus carpio</i>
Alt3	<i>Catla catla</i>
Alt4	<i>Labeo rohita</i>
23	The structure "lantern of Aristotle" is found in
Alt1	<i>Nereis</i>
Alt2	<i>Echinus</i>
	<i>Taenia</i>
Alt4	<i>Chaetopterus</i>
24	Pollen basket in worker honey bee is present in the
	Metathoracic legs
	Mesothoracic legs
	Prothoracic legs
Alt4	Mandible
25	In sponges, the food is stored in
25	in sponges, the rood is stored in
Alt1	Trophocytes
Alt2	Archeocytes
Alt3	Desmocytes
Alt4	Thesocytes
26	A reason for maternal inheritance of a character is due to genes present in
	Nucleolus
	Mitochondria
	Cytoplasm
Alt4	Lysosomes
27	Which statement about post-translational events is FALSE?
21	vernon statement about post-translational events is LALSE:
Δl+1	Protein targeting involves signal sequences in the nascent polypeptides.
	Proteins can be modified by acetylation, phosphorylation and glycosylation.

	Signal peptidase removes one or two amino acids from the amino terminus of some proteins.
Alt4	Some mRNAs encode polypeptides.
28	Which one of the following elements is essentially required for blood coagulation?
Alt1	Calcium.
	Sodium.
Alt3	Potassium.
Alt4	Iron.
29	Trypsinogen is activated by
Alt1	HCI.
Alt2	Enterokinase.
Alt3	
Alt4	Chymotrypsin.
30	Emulsification of fatty substances is the function of
Alt1	Lipase enzyme.
Alt2	Bilirubin and biliverdin.
Alt3	HCI.
Alt4	Sodium salts of glycocholic and taurocholic acids.
31	In circulating blood, CO <sub>2</sub> is carried by haemoglobin in the form of
Alt1	Sodium bicarbonate.
Alt2	Potassium bicarbonate.
Alt3	Carboamino compound.
Alt4	Methaemoglobin.
32	What one of the following matches is correct?
Alt1	Lamarck's theory - Struggle for existence.
	Biogene c law - Recapitula on theory.
Alt3	Lamarck's theory - Theory of con nuity of germplasm.
	Darwin's theory - Use and disuse of organs.
33	Which of the following is not a green house gas?
Alt1	CO <i>2 </i>
Alt2	Water vapour
Alt3	Methane

Alt4	Ozone
34	A species that has a disproportionately large effect on its environment relative to its abundance and if removed from habitat the habitat is dramatically changed is called
Alt1	Abundant species
Alt2	Keystone species
Alt3	Dominant species.
Alt4	Umbrella species.
35	A population following the growth equation (dN/dt = rN) will neither increase nor decrease when
Alt1	r = 0
Alt2	r=1
Alt3	r = 0.5
Alt4	r= >0 but < 1
36	An area is declared "Hot Spot" when
Alt1	It has 1500 or more endemic species and 75 % of its original habitat is lost.
	It has 1500 or more endangered species and 75 % of its habitat is lost.
	It has more than 2000 varieties of species.
Alt4	Most of the species inhabiting the area is facing the risk of extinction.
37	The major secretory product of pineal gland is
Alt1	Mesotocin.
Alt2	Melanin.
	Melatonin.
Alt4	Prolactin.
38	The blood in Cockroach contains
Alt1	Haemoglobin.
	Haemocyanine.
Alt3	Haemovanadin.
Alt4	No respiratory pigment.
39	Which one of the following features is NOT appropriate for Vitamin C?
Alt1	Water soluble.
Alt2	Anti-Scurvy.
Alt3	Anti-Beriberi.

Alt4	Hexose derivative .
40	The death of the last individual of a species is called
40	The death of the last marriadal of a species is called
Alt1	Extinction.
Alt2	Clad.
Alt3	Neither extinction, nor clad.
Alt4	Species diversity.
41	Red Data Book provides a list of
	Advanced animals and plants.
	Rare, endangered or endemic species.
	Disease resistant animals.
Alt4	Extinct plants and animals.
42	What is the animal symbol of W/ W/ E (World Wildlife
42	What is the animal symbol of W. W. F (World Wildlife Fund) ?
	ruliu) :
Δl+1	Red Panda.
	Giant Panda.
	Tiger.
	Kangaroo.
43	Which group of vertebrates comprises the highest
	number of endangered species?
	Fishes.
	Reptiles.
	Birds.
Alt4	Mammals.
	Dual, billed plateres is a Widow does lied but
44	Duck-billed platypus is considered as a link between
Δl+1	Reptiles and birds.
	Reptiles and mammals.
	Echinoderms and chordates.
	Reptiles and amphibians.
	•
45	In human dosage compensation the only gene which is not transcriptionally silent in the inactivated X
	chromosome is
Alt1	HPRT.

Alt2	XIST.
Alt3	Tim.
Alt4	XIC.
46	Which one of the following sub-cellular organelle is relatively more abundant in a primarily lipid synthesizing
	cell?
Alt1	Rough surfaced ER.
	Smooth surfaced ER.
	Ribosomes.
	Lysosomes.
7.110.1	2,0000mes.
47	In the DNA, nonsense codons are
47	in the DNA, housense codons are
A I+1	
	UUA,UUG,UUU
	UAG,UAA,UGA
	AUA,AUG,UGA
Alt4	AAA,AAG,AAU
48	Mayr's biological concepts of species is mainly based on
Alt1	Morphological traits.
Alt2	Reproductive isolation.
Alt3	Modes of reproduction.
Alt4	Morphology and Reproduction.
49	In the mammalian testis, the hormone inhibin is produced by
Alt1	Leydig cells.
	Sertoli cells.
	Mature spermatozoa.
	Spermatids.
7.11.0	
50	Which of the following enzymes is the first to mix with food in the digestive tract?
30	which of the following chzymes is the mist to mix with food in the digestive tract:
۸ I+1	Pepsin.
	·
	Trypsin.
	Lipase.
Alt4	Ptyaline.
	During the transportation of gases, to maintain the ironic balance, chloride ions shift from
	RBCs to plasma
	Plasma to RBCs
	Lungs to blood
Alt4	Blood to lungs

	Phenotype of an organism is the result of
Alt1	Genotype and environment interactions
Alt2	Mutations and linkages
Alt3	Cytoplasmic effects and nutrition
Alt4	Environmental changes and sexual dimorphism
	Apoptosis term is related to
	Abnormal cell growth
	Programmed cell death
	Cell morphogenesis
Alt4	Cell differentiation
Γ.4	In which your the National Diadiugusity Authority (NDA) was established to implement India/a Dialogical
54	In which year, the National Biodiversity Authority (NBA) was established to implement India's Biological
	Diversity Act
	2002
	2003
	2004
Alt4	2005
55	A double stranded DNA has 30% cytosine. What is the percentage of adenine in it?
Alt1	
Alt2	
Alt3	
Alt4	
AIL4	0.1
56	Which of the following is the main cause of allopatric speciation?
	Geographical isolation
	Reproductive isolation
	Allochronism
	None of these
57	The epithelium that helps in gamete formation is
	Simple squamous epithelium
	Simple columnar epithelium
	Simple cuboidal epithelium
	Ciliated columnar epithelium
	Which of the following is not an ecosystem service provided by invertebrates?
Alt1	Decomposition of plant and animal tissues
Alt2	Pollination of plants
Alt3	Suppression of herbivorous pests of crops
Alt4	Vectors and intermediate hosts of parasites that attack humans
F0	Which of the following are not social helpoviers displayed by some invertebrates?
	Which of the following are not social behaviors displayed by some invertebrates?
	Parental care
Alt2	Channel surfing

Alt3	Communal nesting
Alt4	Cooperation in brood care between parents and offspring
60	In which type of wildlife management the wildlife is protected from hunting mainly during breeding season and
	is enforced by law and if violated is punishable and termed as illegal?:
	Closed season
	Open wildlife season  Custodial management
	Custodial management Limited entry zone
Alt4	Limited entry 2011e
61	The first larvae of Penaeus
	Zoea
Alt2	Nauplius
Alt3	Mysis
Alt4	Protozoea
	What is a microscope's ability to distinguish between separate objects that are close together?
	Magnification
	Contrast
	Resolving power Scanning power
AII4	Scarring power
63	Sodium ions are "pumped" from a region of lower concentration to a region of higher concentration in the
03	nerve cells of humans. This process is an example of
Alt1	Diffusion
Alt2	Passive transport
Alt3	Osmosis
Alt4	Active transport
	Notochord is found in the tail region of
	Chordata Urochordata
	Cephalochordata
	Vertebrata
7110-1	Vertebrata
65	The chemical factors that determine traits are called
Alt1	Alleles
Alt2	Traits
Alt3	Genes
Alt4	Characters
ī	
66	What principle states that during gamete formation genes for different traits separate without influencing each
Alid	other's inheritance?
	Principle of dominance  Principle of independent assortment
	Principle of independent assortment  Principle of probabilities
	Principle of probabilities  Principle of segregation
AIL4	Timelyte of segregation

Att 3 perm cells Alt2 Skin cells Alt3 Liver cells Alt3 Liver cells Alt4 Alt of these  68 An example of aestivating fish Alt1 Liepidosiren paradoxa Alt2 Etropius suratensis Alt3 Sardinella longiceps Alt4 Mugli cephalus  69 A chronospecies is Alt3 Apopulation that will eventually become a new species, given enough time Alt2 A species that, though reproductively isolated, looks exactly like another species Alt3 A label used for a stage of a single species evolving over time Alt4 A measure of how many new species appear in a given period of time  70 The origin of a new species first requires Alt1 Reduced gene flow Alt2 increased gene flow Alt3 Reduced mutation rates Alt4 Increased mutation rates Alt4 Increased mutation rates Alt4 Increased mutation rates Alt4 An outgroup Alt3 A phenetic approach Alt4 An adaptive sadiation model  72 Twins made from two individual zygotes (dizygotic twins): Alt3 are related genetic similarities Alt4 are related genetic similarities Alt5 are insum and of genetic sequences Alt4 are related genetically as non-twin siblings.	67	Miliah afaha fallawing sallawa daga nasissis?
Alt2   Skin cells   Alt3   Liver cells   Alt4   All of these    68   An example of aestivating fish   Alt1   Lepidosiren paradoxa   Alt2   Etroplus suratensis   Alt3   Sardinella longiceps   Alt4   Mugli cephalus    69   A chronospecies is   Alt1   A population that will eventually become a new species, given enough time   Alt2   A species that, though reproductively isolated, looks exactly like another species   Alt3   A label used for a stage of a single species evolving over time   Alt4   A measure of how many new species appear in a given period of time    70   The origin of a new species first requires   Alt1   Reduced gene flow   Alt2   Increased gene flow   Alt3   Increased mutation rates   Alt4   Increased mutation rates   Alt4   Increased mutation rates   Alt4   An outgroup   Alt3   A phenetic approach   Alt4   An adaptive radiation model    71   Twins made from two individual zygotes (dizygotic twins):   Alt2   share 0% genetic similarities   Alt3   are related genetically as the monozygotic twins   Alt4   are related genetically as non-twin siblings.    73   Which of the following is not a major factor in the success of the Arthropoda (insects, crustaceans, spiders, etc.)   Alt1   Paired jointed appendages		Which of the following cells undergo meiosis?
Alt3 Liver cells Alt4 All of these  68 An example of aestivating fish Alt1 Lepidosiren paradoxa Alt2 Etroplus suratensis Alt3 Sardinella longiceps Alt4 Mugil cephalus  69 A chronospecies is Alt1 A population that will eventually become a new species, given enough time Alt2 A species that, though reproductively isolated, looks exactly like another species Alt3 A label used for a stage of a single species evolving over time Alt4 A measure of how many new species appear in a given period of time  70 The origin of a new species first requires Alt1 Reduced gene flow Alt2 Increased gene flow Alt3 Increased gene flow Alt3 Increased mutation rates Alt4 Increased mutation rates Alt4 A molecular clock Alt4 A molecular clock Alt2 An outgroup Alt3 A phenetic approach Alt4 An adaptive radiation model  72 Twins made from two individual zygotes (dizygotic twins): Alt1 are related genetically as the monozygotic twins Alt2 share 0% genetic similarities Alt4 are related genetically as non-twin siblings.  73 Which of the following is not a major factor in the success of the Arthropoda (insects, crustaceans, spiders, etc.) Alt1 Paired jointed appendages		
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	Alt1	Paired jointed appendages
<u> </u>		
Alt3 Body segmentation and the fusion of body segments into functional regions of the body (head, thorax, abdomen)	Alt3	Body segmentation and the fusion of body segments into functional regions of the body (head, thorax, abdomen)
Alt4 Radial symmetry	Alt4	Radial symmetry
74 Surgical removal of Gall bladder in man would lead to	74	Surgical removal of Gall bladder in man would lead to

Alt1	Impairment of digestion of fat
Alt2	Jaundice
Alt3	Increased acidity in intestine
Alt4	None of these
75	Autecology deals with:
Alt1	Study of individual organism
Alt2	Study of group of organisms
Alt3	Study of autotrophs
Alt4	Study of heterotrophs
76	Which one of the following animals is an Ectothermic Homeotherm?
	Lantern fish
Alt2	Whale
Alt3	Fruit Bat
Alt4	Owl
77	DNA repair is <i><u>not</u></i> associated with
Alt1	DNA ligase
Alt2	DNA exonuclease
Alt3	DNA endonuclease
Alt4	DNA helicase
78	Why mitochondrial DNA (mtDNA) is often used for studying relatedness in animal populations by population
	geneticists?
Alt1	mtDNA mutates at a slow rate than nuclear DNA
Alt2	mtDNA is uniparental as it passed on from mother to child without any recombination between pairs of chromosomes
Alt3	mtDNA codes for mitochondrial proteins
Alt4	Single nucleotide polymorphisms are very few in the hypervariable regions of mitochondria
79	Hardy-Weinberg equilibrium assumes significance for the following, <u>except</u>
	a large population
Alt2	random mating
Alt3	no natural selection
Alt4	genetic drift
80	Cell fractionation require all, <u>except</u>
Alt1	Centrifuge
Alt2	HPLC
Alt3	Dialysis
	Cryostat

81	Most commonly used animal for the production of secondary antibody for immulogical techniques is
Alt1	Mice
Alt2	Goat
Alt3	Rabbit
Alt4	Horse
82	Which one of the following is <i><u>not</u></i> related to the tiger reserve or project tiger of India?
Alt1	Sunderbans
Alt2	Kaziranga
Alt3	Manas
Alt4	Bandipur
83	Classical example of a hormone that is being regulated by open loop feedback is
Alt1	Prolactin
Alt2	FSH
Alt3	Н
Alt4	Calcitonin
84	Self-ligation of restriction enzyme digested plasmid DNA can be avoided by using
Alt1	AMV reverse transcriptase
Alt2	T4 DNA ligase
Alt3	calf intestine phosphatase
Alt4	T7 Polymerase
85	Which one of the following chemical compounds/drugs depolymerizes actin filaments?
	Cytochalasin B
Alt2	Colchicine
	Phalloidin
Alt4	Cyclodextrin
	Which cell organelles have the capacity to undergo pleomorphism or polymorphism?
	Glyoxisome and Peroxisome
	Lysosome and Mitochondria
	Ribosome and Chloroplast
Alt4	Endoplasmic reticulum and Golgi complex
	Unique property of lysosomal proteins is
	always enclosed in clathrin-coated vesicles
	phosphorylated mannose residues
	O-linked glycosylation of asparagine residues
Alt4	functional at alkaline pH
-	
	Spermatozoa lacking acrosome is found only in
Alt1	Snake

Alt3	Frog
Alt4	Quail
89	Function of a eukaryotic protein can be abolished if point mutation is executed in the region of
Alt1	TATA box of 5'UTR promoter
	first nucleotide of a codon in the first exon
Alt3	third nucleotide of a codon in the first exon
Alt4	targeting poly adenylation signal in 3'UTR
90	Which one of the following statements is <u><i>incorrect</i></u> with reference to gamete maturation?
Alt1	Both Meiosis I and II will be completed before fertilization in male gametes.
	Meiosis I alone will be completed before fertilization in female gamete and the Meiosis II will occur after fertilization
Alt3	<i>In vitro </i> fertilization can be performed without the completion of capacitation of male gametes.
Λ I+ <i>A</i>	Resumption of meiosis for female gamete maturation is not related to puberty.
AIL4	nesumption of melosis for female gamete maturation is not related to publicly.
01	Which one of following group of amino acids is the site for glycosylation?
	Glycine or alanine
	Glutamine or arginine
-	Tryptophan or phenylalanine
	Asparagine, serine or threonine
Alt	Asparagine, serine of theorime
92	The phenotypic expression of one gene is affected by another gene is known as
	Epigenetics
	Epistasis
-	Homeostasis
	Heterosis
93	Continuation of glycolysis during fermentation is dependent mainly on
	production of 2 molecules of ATP
-	recycling NAD <sup>+</sup>
	recycling NADH
	utilization of 2 molecules of ADP
94	As per Morgan's law of recombination, when a grey normal wild type Drosophila (female) is crossed with black
	vestigial (male), 944 flies are black vestigial, 965 are wild type, 206 are grey vestigial and 185 are black normal.
	Find the recombinant frequency.
Alt1	0.30
	0.17
	0.34
-	0.15
95	Which one of the following endocrine glands has originated from two different germ layers?
	Adrenal
-	Pituitary
	•

Alt3	Thyroid
Alt4	Pineal
96	Most of the deserts in the world occur at 30 degree north and 30 degree south latitude. This can be best
	explained by
Alt1	the pattern of global climate change in the last centaury
Alt2	the pattern of continental drift during last millions of years
Alt3	the pattern of atmospheric circulation above and below the equator
Alt4	the pattern of mountain ranges that occur at those latitudes
97	Somatomammotropin is responsible for
Alt1	Breast growth during pregnancy
Alt2	Postnatal lactation
Alt3	Milk ejection just after parturition
Alt4	Postnatal depression and stress
98	A couple having blood group A with Rh negative (Father) and B with Rh positive (Mother) have a girl child with blood group O, Rh positive. What will be the genetic allele combination of the parents in terms of the blood group? What would be the percentage of having a child with blood group O, Rh positive?
	<sup>I<sup>A</sup>, Rh<sup>-</sup> and </sup> I <sup>B</sup> , Rh <sup>+</sup> & 25%
	I <sup>A</sup> I <sup>A</sup> Rh <sup>-</sup> and I <sup>B</sup> i, Rh <sup>+</sup> & 25%
	I <sup>A</sup> i, Rh <sup>-</sup> and I <sup>B</sup> i, Rh <sup>+</sup> & 50%
Alt4	I <sup>A</sup> i, Rh <sup>-</sup> and I <sup>B</sup> B, Rh <sup>-</sup> & 25%
	Each repeat unit of the nuclear ribosomal gene cluster of eukaryotes contains
	a terminator for RNA Polymerase I
	a promoter for RNA polymerase I
	an ATG start codon and also a Polyadenylation signal
Alt4	at least one tRNA gene
100	Brown fat degradation is associated with
Alt1	shivering thermogenesis and glycolysis
Alt2	non-shivering thermogenesis and gluconeogenesis
Alt3	non-shivering thermogenesis and beta-oxidation
_	shivering thermogenesis and glycogenolysis

## 129 PU Ph.D Zoology

	100
	PU_2016_129_E progesterone hormone is a:-
0	c-15 steroids
0	c-25 steroids
0	c-21 steroids
0	c-19 steroids
161	F 100 PU_2016_129_E eroid hormone which regulates glucose metabolism is:- estrogen
0	progesterone
0	aldosterone
	Cortisol
204 RN/	f 100 PU_2016_129_E A molecules, capable of catalyzing a chemical reaction such as self-splicing are known as:-
0	lysosomes
0	ribozymes
0	ribosomes
0	isozymes
108 Maiı	f 100 PU_2016_129_E n difference between RBC's of man and frog is:-
0	Human RBCs are without nucleus
0	Human RBCs have more nuclei
0	Frog's RBCs are without nucleus
0	Only human RBCs have haemoglobin
189 Whe	f 100 PU_2016_129_E en organisms produce all of its offspring in a reproductive event, it is known as:-
0	Iteroparity
0	Semelparity
0	Aparity

0	Viviparity
216 Effe	F 100 PU_2016_129_E ct of deforestation are:-
0	distruction of wild life
0	increase in air pollution
0	desertification
0	all the above
200 "Sex	F 100 PU_2016_129_E k-linked genes" refer to genes:-
0	present on the sex chromosomes
0	controlling both primary and secondary sexual characters
0	controlling secondary sexual characters
0	present in a particular sex
157	PU_2016_129_E hormone which is called as fight, flight and fright hormone is:- Epinephrine Prolactin progesterone
160	Relaxin  f 100  PU_2016_129_E hormone that regulates menstrual cycle in human:-  FSH and Testosterone
0	FSH, LH and Estradial
0	Insulin and Glucagon
0	Thyroxine and Cortisol
100 Whi	of 100 PU_2016_129_E ch one of the following is not the function of liver?
0	It produces granulocytes
0	It stores triglycerides
0	It produces bile juice which helps in digestion

0	It disposes off the worn out RBCs
101 Whi	of 100 PU_2016_129_E ich is not a locomotory organ in Protozoa?
0	Flagella
0	Pseudopodium
0	Cilia
0	Setae
141 In m	of 100 PU_2016_129_E nammals, histamine is secreted by:-
0	Lymphocytes
0	Fibroblasts
0	Histocytes
0	Mast cells
109	of 100 PU_2016_129_E at is the characteristic of metanephric kidney? Henle's loop Hypotonic urine production Excess secretion of uric acid Hormone production
181	of 100 PU_2016_129_E most abundant lipids in eukaryotic cell membranes are:-
0	Lipopolysacchrides
0	Cholesterol
0	Glycolipids
0	Phospholipids
149	of 100 PU_2016_129_E It method of variability is:-
0	Standard deviation
0	Mean
	Mode

0	Median
116 Duri	of 100 PU_2016_129_E ng food chain maximum energy is stored in:-
0	decomposers
0	primary consumers
0	producers
0	secondary consumers
121 Unw	of 100 PU_2016_129_E vinding of DNA is done by:-
0	topoisomerase
0	helicase
0	exonuclease
0	ligase
137	of 100 PU_2016_129_E gall stones are formed of:-
0	Cholesterol
0	Growing infected tissue
0	Sodium crystals
	Calcium
133	of 100 PU_2016_129_E Indelian recombinations are due to:-
0	independent assortment of genes
0	mutation
0	dominant characters
0	linkage
180 Kah	of 100 PU_2016_129_E n test is otherwise called:-
0	Flocculation
0	Complement system
0	Precipitation

0	Agglutinisation	
120 Forr	of 100 PU_2016_129_E mation of RNA from DNA is:-	
0	translation	
0	transcription	
0	replication	
0	recombination	
185 Coh	of 100 PU_2016_129_E orts are:-	
0	Different aged young	
0	Same aged young	
0	Recruits	
0	Reproductive elements	
129	of 100 PU_2016_129_E ndice is a disease of:-	
0	kidneys	
0	liver	
О	duodenum	
0	pancreas	
208	of 100 PU_2016_129_E terial resistance to antibiotics is a generic trait that is carried in the bacteria cell in:-	
0	intron	
0	chromosome	
0	centromere	
О	plasmid	
25 of 100 164 PU_2016_129_E Secretin stimulates the secretion of:-		
0	pancreatic bicarbonate	
0	acid secretion	
0	gall bladder contents	

C liver bile juice	
26 of 100 197 PU_2016_129_E The nuclear spindle is formed in:-	
Meiotic division only	
Mitotic and meiotic divisions	
C Amitotic division only	
Mitotic division only	
27 of 100 112 PU_2016_129_E During expiration, the diaphragm:-	
Shows no change	
expands	
becomes dome shaped	
becomes flattened	
28 of 100 169 PU_2016_129_E Pheromone is secreted by:-  prostate gland  cowpers gland  bulbourethral gland  anal gland	
29 of 100 201 PU_2016_129_E Insertion or deletion of a nucleotide in a class of mutation resulting in a sequence of codon that nonsensical polypeptide chain is called:-	at makes
C lethal mutation	
inversion	
transversion	
frame shift mutation	
30 of 100 188 PU_2016_129_E Most vitamins are:-  Precursors to coenzymes	
Covalently linked to enzymes	

0	Synthesizes by humans
0	Precursors to proteins
176	of 100 PU_2016_129_E antibody produced during primary response is:- Ig M Ig E Ig A
124 The	of 100 PU_2016_129_E primary germ layers are:-
0	ectoderm, mesoderm and endoderm
0	mesoderm, endoderm only
0	ectoderm, endoderm only
0	ectoderm, mesoderm only
132 The	of 100 PU_2016_129_E ovarian follicle are derived from:-
0	corpus luteum
0	spermatozoa
0	corpus albicans
0	oogonia
168 Cole	of 100 PU_2016_129_E onial habit is seen in:-
0	mosquitoes
0	white ants
0	bed bugs
0	locusts
145 All \	of 100 PU_2016_129_E veins carry oxygenated blood except:-
0	Pulmonary vein
0	Hepatic vein

O	Renal artery
0	Hepatic portal vein
172 The O	PU_2016_129_E T cell which suppresses the immune response is:- T s cells T b cells T d cells T c cells
<b>37</b> (209	of 100 PU_2016_129_E ch enzyme catalyzes the unwinding of DNA helix during replication? DNA-polymerase
0 0	Helicase Topoisomerase Primase
196	PU_2016_129_E particles are also known as:- Ribosomes Lysosomes Oxysones Centrosome
217	of 100 PU_2016_129_E an of flight in bats is:- feathers wings cuticular flaps patagia
105	of 100 PU_2016_129_E respiratory centre is located in the:- Lungs Diencephalon

0	Mid brain
0	Medulla oblongata
144 Chlo	of 100 PU_2016_129_E pride shift is related to the collection of:-
0	Hb
0	CO
0	$O_2$
0	CO <sub>2</sub>
156	of 100 PU_2016_129_E ts of Langerhans in pancreas secretes:- Glucagon alone
$\circ$	Insulin alone
0	Thyroxin
0	Insulin and Glucagon
212	of 100 PU_2016_129_E ch of the following amino acids has single codon?
0	Arginine
0	Tryptophan
0	Valine
0	Isoleucine
177 The	of 100 PU_2016_129_E mammalian counterpart of avian bursa of fabricus is the:-
0	spleen
0	bone marrow
0	thymus
0	liver
165 Rad	of 100 PU_2016_129_E lio Immuno Assay is used to measure the:-
0	proteins
0	respiratory rate

0	serum hormones excretion rate
113	of 100 PU_2016_129_E ch of the following sets of nerves are purely sensory?
0000	I , VI and VII I, II and VIII I, IX and X IV, V and IX
184	PU_2016_129_E  thich animal species specific greetings like head rubbing is seen:-  House-sparrow  Cats  Lizard  Man
140	PU_2016_129_E one bodies are formed due to metabolism of:- Glycogen in liver Glycogen in muscles Fats in liver Fats in muscle
128	PU_2016_129_E son with diabetes mellitus do not produce sufficient:- glucagon sugar epinephrine insulin
205	of 100 PU_2016_129_E reins that are used only outside the cell are synthesized:- on the rough endoplasmic reticulum on free ribosomes

in the mitochondria
on the smooth endoplasmic reticulum
of 100 PU_2016_129_E simple random sampling:-
Selection is dependent on individual characteristic
All have equal chance of getting selected
Suitable for large heterogenous population
Only possible when complete sampling frame is not available
of 100 PU_2016_129_E ch histone protein is involved in the transition between the solenoid form and the extended eosome form?
H1
H4
H2B
H3
of 100 PU_2016_129_E ciency of vitamin D causes:-
Xeropthalmia
Pellagra
Nyctalopia
Osteomalacia
of 100 PU_2016_129_E method of permanent birth control in female is:-
Vasectomy
Tubectomy
Copper 'T'
Contraceptive pills
of 100 PU_2016_129_E of the following is not a flightless bird?

0	Apteryx
0	Rheas
0	Psittacula
125	PU_2016_129_E changes in male sex cells just before their liberation as mature gametes are called:- spermiogenesis Spermatogenesis Oogeneis gametogenesis
117 Nitro	of 100 PU_2016_129_E ogen is an important constituent of:-
0	phospholipids
0	lipids
0	carbohydrates
0	protein
58 of 100 193 PU_2016_129_E Catadromous fishes migrate:-	
0	To freshwater from sea
0	From river to sea
0	From sea to estuary
0	From estuary to sea
173	of 100 PU_2016_129_E following are primary lymphoid organs except:-
0	thymus
0	bone marrow
0	lymph node
	bursa of fabricius
192 An a	of 100 PU_2016_129_E antiglobin test is:-
0	Widal

0	Combs test
0	ELIZA
0	RIA
224	PU_2016_129_M 'Suicidal 'bag of an animal cell is:- Dictyosome Spherosome Endosome Lysosome
253	of 100 PU_2016_129_M sh which migrate from sea to fresh water for spawning are called as:-
0	Anadromous
0	Stenohaline
0	Euryhaline
0	Catadromous
240 Filtra	PU_2016_129_M ation under pressure is called:- semisolid filtration
0	extract-filtration
0	ultra-filtration
0	micro-filtration
225	of 100 PU_2016_129_M coiled filament of chromosome is called:-
	Centroneme
	Chromomere
	Chromonema
	Satellite
256 Rou	of 100 PU_2016_129_M nd worms are:-
0	Pseudocoelomate

0	Eucoelomate
0	Haemocoelomate
0	Acoelomate
257	of 100 PU_2016_129_M d derived by killing other organism is:- Predation Amensalism Parasitism Protocooperation
249	of 100 PU_2016_129_M ch are more numerous:-
0	Primary consumer
0	Tertiary consumer
0	Quaternary consumer
0	Secondary consumer
220 Terr	of 100 PU_2016_129_M m not related to amoeba is:-
0	import
0	holozoic
0	circumvalation
0	autotrophic
221 Reg	of 100 PU_2016_129_M eneration happens in:-
0	tails in lizards
0	fish fins
0	beak in birds
0	all the above
248	of 100 PU_2016_129_M httify the zooplankton.
**	Corals

$\circ$	Jelly fishes	
0	Hydra	
	•	
	Marine protozoans	
229	of 100 PU_2016_129_M e of ribosomes and their subunits are given in:- Svedberg unit Angstron Microns Daltons	
72 of 100 228 PU_2016_129_M Ribosomes are chemically composed of:-		
0	Protein	
0	Lipid only	
0	RNA and protein	
0	DNA	
73 of 100 233 PU_2016_129_M Lysosomes contain destructure enzymes called:-		
0	Hydrolases	
0	Esterases	
0	protease	
0	Transferases	
74 of 100 236 PU_2016_129_M The stress response is primarily controlled by		
0	Thyroid gland	
000	Hypothalamus	
	Kidneys	
	Adrenal gland	
252	of 100 PU_2016_129_M der type of nervous system present in:-	
	Coelenterates	

Flat worms  Mollusks  No pigment in the skin  Upper surface dark and light lower surface  Dark skin  Light skin  Mollusks  Mol
Mollusks  76 of 100 244 PU_2016_129_M Cave dwelling animals have:-  No pigment in the skin  Upper surface dark and light lower surface  Dark skin  Light skin  77 of 100 241 PU_2016_129_M Buffer salts present in the blood are:-  Potassium
244 PU_2016_129_M Cave dwelling animals have:-  No pigment in the skin  Upper surface dark and light lower surface  Dark skin  Light skin  77 of 100  241 PU_2016_129_M Buffer salts present in the blood are:-  Potassium
241 PU_2016_129_M Buffer salts present in the blood are:- Potassium
Potassium
Codium and natassium
Sodium and potassium
Cobalt
Sodium
78 of 100 245 PU_2016_129_M Blubber is a characteristic of:- Aquatic mammals Cartilaginous fishes Bony fishes Reptiles
79 of 100 232 PU_2016_129_M Circular DNA in eukaryotes are found in:-  Mitochondria  Stomata  Schwann cells  Bundle of His
80 of 100
237 PU_2016_129_M Pepsin enzyme converts protein into:-  Glycoprotein

0	Glycopeptides	
0	Emulsified protein	
0	Polypeptides	
285	of 100 PU_2016_129_D ly does not show any segmentation in:- Cockroach Frog Earth worm Star fish	
82 of 100 276 PU_2016_129_D Under bright light animals become:-		
0	Tanned	
0	Blue coloured	
0	Dark coloured	
0	Light coloured	
83 of 100 261 PU_2016_129_D Which of the following process require energy:-		
0	Transformation	
0	Restriction digestion	
0	Hybridization	
0	Ligation	
281 Whi	of 100 PU_2016_129_D ich one has a real existence:-	
0000	Phylum	
	Class	
	Genus	
	Species	
296	of 100 PU_2016_129_D ich one is not a fossil fuel:- Uranium	

0	
0	Coal
0	Natural gas
	Petrol
297	of 100 PU_2016_129_D main factor responsible for water pollution is:-
0	Detergent
0	Industrial waste
0	NH3
0	Smoke
268 Dec	of 100 PU_2016_129_D composers are always:-
0	Heterotrophs
0	Autotrophs
0	Primary consumers
0	Saprotrophs
284	of 100 PU_2016_129_D water holding capacity of which soil is maximum:-
	Silt
0	Clay
	Sand
0	Coarse sand
272 Aniı	of 100 PU_2016_129_D mals period of inactivity in summer is:-
0	Hibernation
0	Dormancy
0	Resting
0	Aestivation
288	of 100 PU_2016_129_D serve food in protozoans is:-

0 0	fat Protein Glycogen
265	of 100 5 PU_2016_129_D monia is the waste product of:- Cartilage fishes Insects sponges snail
273	of 100 B PU_2016_129_D ral reefs are formed by the association of algae and:- Coelenterates Poriferans Protozoa Fungi
269	of 100 PU_2016_129_D e source of energy in an ecosystem:- Glucose DNA ATP Sun
289	of 100 PU_2016_129_D between breeding of endangered animal species is carried out in:- Laboratories Zoological parka National parks Sanctuaries
293	of 100 B PU_2016_129_D e indicator species for water pollution is:- Tubifex

0	Fishes	
0	Mollusks	
0	Zooplankton	
260	PU_2016_129_D first step in the PCR is:- Annealing	
$\circ$	Cooling	
0	Denaturation	
0	Primer extension	
97 of 100 280 PU_2016_129_D Plant and animal classification is given by:-		
0	Charles Darwin	
0	Gregor John Mendel	
0	Carl Van Linnaeus	
0	Aristotle	
98 of 100 292 PU_2016_129_D Ozone hole was discovered over:-  Europe		
$\circ$	India	
0	Africa	
0	Antarctica	
277 The	of 100 PU_2016_129_D respiratory, circulatory and excretory organs are absent in:-	
000	Sponges	
	Liver flukes	
	Tapeworm	
0	Thread worm	
100 of 100 264 PU_2016_129_D Tissue grade organization is organized from:- Cnidaria		

Porifera

C Protozoa

Platyhelminthes