DU MSc Genetics
Topic:- DU_J18_MSC_GENETICS
1) Which of the following statements about G proteins is FALSE?
[Question ID = 52123]
<ol> <li>They must be activated before the cell can make needed cAMP. [Option ID = 88487]</li> <li>They become activated when bound to GDP. [Option ID = 88486]</li> <li>They are involved in signal cascades. [Option ID = 88484]</li> <li>They bind to and are regulated by guanine nucleotides. [Option ID = 88485]</li> </ol>
Correct Answer :- <ul> <li>They become activated when bound to GDP. [Option ID = 88486]</li> </ul>
2) Which one of the following statement about nitrogen fixation is correct?
[Question ID = 52072]
1. Plants convert atmospheric nitrogen to ammonia [Option ID = 88281] 2. Mutant strains of rhizobium are able to secrete excess protein into the soil [Option ID = 88283]
3. The enzyme nitrogenase reduces $N_2$ to form ammonia [Option ID = 88280]
4. Ammonia is converted to $N_2$ , which is the form of nitrogen most easily absorbed by plants [Option ID = 88282]
Correct Answer :- • The enzyme nitrogenase reduces N <sub>2</sub> to form ammonia [Option ID = 88280]
3) Which one of the following combination of scientist(s) and the experiment generated first conclusive evidence that DNA is the genetic material?
[Question ID = 52061]
<ol> <li>Watson and Crick who gave a model for the structure of DNA [Option ID = 88239]</li> <li>Garrod, who postulated that Alkaptonuria, or black urine disease, is due to a mutation in the gene coding for important enzyme. [Option ID = 88237]</li> <li>Beadle and Tatum, who used a mutational and biochemical analysis of the bread mold <i>Neurospora</i> to establish a direct link between genes and enzymes [Option ID = 88238]</li> <li>Avery, MacLeod, and McCarty who repeated the transformation experiments and chemically characterized the transforming principle. [Option ID = 88236]</li> </ol>
Correct Answer :- <ul> <li>Avery, MacLeod, and McCarty who repeated the transformation experiments and chemically characterized the transforming principle. [Option ID = 88236]</li> </ul>
4) Which one of the following is the main contributor of the ascent of sap in the xylem vessels ?
[Question ID = 52073]
<ol> <li>Root pressure [Option ID = 88284]</li> <li>Transpiration and cohesive forces [Option ID = 88285]</li> <li>Capillary action [Option ID = 88286]</li> <li>Atmospheric pressure [Option ID = 88287]</li> </ol>
Correct Answer :- • Transpiration and cohesive forces [Option ID = 88285]
5) Which one of the following, studies the transcripts and proteins expressed by a genome? [Question ID = 52071]

1. Structural genomics [Option ID = 88277]

2. Comparative genomics [Option ID = 88276]

3. Proteo genomics [Option ID = 88278]

4. Functional genomics [Option ID = 88279]

	re red-haired. What is the frequency of heterozygotes? [Question $ID = 52140$ ]
	n ID = 88553]
	n ID = 88555]
	ion ID = 88554]
4. 81% [Op	tion ID = 88552]
Correct Ans	<b>wer :-</b> ion ID = 88554]
	[דננסט – עז ווט
7) GTPase d 52110]	omain made up of alpha-helix and Beta pleated sheets in a certain relative orientation is an example of [Question ID =
	structure [Option ID = 88433]
	tructure [Option ID = 88432]
	structure [Option ID = 88435] structure [Option ID = 88434]
Correct Ans	wer :-
	structure [Option ID = 88434]
3) The migr	ation of a protein on an SDS polyacrylamide gel is best described as inversely proportional to the [Question ID = 52109]
	c point [Option ID = 88429]
2. log of carbo	hydrate content [Option ID = 88430]
2. log of carbo 3. log of mol	
2. log of carbo 3. log of mol 4. negative ch	hydrate content [Option ID = 88430] ecular weight [Option ID = 88431] arge [Option ID = 88428]
2. log of carbo 3. log of mol 4. negative ch Correct Answer log of mo 1) Phenotyp	bydrate content [Option ID = 88430] ecular weight [Option ID = 88431] arge [Option ID = 88428] wer :- lecular weight [Option ID = 88431] wes such as beard in a woman is most likely a result of the malfunctioning of: [Question ID = 52080]
<ol> <li>log of carbo</li> <li>log of mol</li> <li>negative ch</li> <li>correct Ansi</li> <li>log of mo</li> <li>p) Phenotyp</li> <li>Thyroid [</li> <li>Pituitary</li> <li>Adrenal c</li> </ol>	bhydrate content [Option ID = 88430] ecular weight [Option ID = 88431] arge [Option ID = 88428] wer :- lecular weight [Option ID = 88431]
<ol> <li>log of carbo</li> <li>log of mol</li> <li>negative ch</li> <li>correct Anse</li> <li>log of mo</li> <li>phenotyp</li> <li>Thyroid [</li> <li>Pituitary</li> <li>Adrenal c</li> <li>Adrenal r</li> </ol>	bydrate content [Option ID = 88430] ecular weight [Option ID = 88431] arge [Option ID = 88428] wer :- lecular weight [Option ID = 88431] bes such as beard in a woman is most likely a result of the malfunctioning of: [Question ID = 52080] Option ID = 88315] [Option ID = 88312] ortex [Option ID = 88313] nedulla [Option ID = 88314]
<ol> <li>log of carbo</li> <li>log of mol</li> <li>negative ch</li> <li>correct Anso</li> <li>log of mol</li> <li>plog of mol</li> <li>Phenotyp</li> <li>Thyroid [</li> <li>Pituitary</li> <li>Adrenal c</li> <li>Adrenal r</li> <li>Correct Anso</li> </ol>	bydrate content [Option ID = 88430] ecular weight [Option ID = 88431] arge [Option ID = 88428] wer :- lecular weight [Option ID = 88431] bes such as beard in a woman is most likely a result of the malfunctioning of: [Question ID = 52080] Option ID = 88315] [Option ID = 88312] ortex [Option ID = 88313] nedulla [Option ID = 88314]
<ol> <li>log of carbo</li> <li>log of mol</li> <li>negative ch</li> <li>correct Anso</li> <li>log of mol</li> <li>log of mol</li> <li>Phenotyp</li> <li>Thyroid [</li> <li>Pituitary</li> <li>Adrenal of</li> <li>Adrenal of</li> <li>Adrenal of</li> </ol>	bydrate content [Option ID = 88430] ecular weight [Option ID = 88431] arge [Option ID = 88428] wer :- lecular weight [Option ID = 88431] bes such as beard in a woman is most likely a result of the malfunctioning of: [Question ID = 52080] Option ID = 88315] [Option ID = 88312] ortex [Option ID = 88313] nedulla [Option ID = 88314] wer :- cortex [Option ID = 88313]
<ol> <li>log of carbo</li> <li>log of mol</li> <li>negative ch</li> <li>Correct Anse</li> <li>log of mol</li> <li>Og of mol</li> <li>Phenotyp</li> <li>Thyroid [</li> <li>Pituitary</li> <li>Adrenal of</li> <li>Adrenal of</li> <li>Adrenal of</li> <li>Adrenal of</li> <li>Adrenal of</li> <li>In bac</li> </ol>	biydrate content [Option ID = 88430] ecular weight [Option ID = 88431] arge [Option ID = 88428] wer :- lecular weight [Option ID = 88431] bes such as beard in a woman is most likely a result of the malfunctioning of: [Question ID = 52080] Option ID = 88315] [Option ID = 88312] ortex [Option ID = 88313] nedulla [Option ID = 88313] nedulla [Option ID = 88313] wer :- tortex [Option ID = 88313] teria, partial diploids for a specific gene can be generated by
<ol> <li>log of carbo</li> <li>log of carbo</li> <li>log of mol</li> <li>negative ch</li> <li>Correct Ansi</li> <li>log of mo</li> <li>Phenotyp</li> <li>Thyroid [</li> <li>Pituitary</li> <li>Adrenal of</li> <li>Adrenal of</li> <li>Adrenal of</li> <li>In bac</li> <li>Question II</li> </ol>	htydrate content [Option ID = 88430] ecular weight [Option ID = 88431] arge [Option ID = 88428] wer :- lecular weight [Option ID = 88431] tes such as beard in a woman is most likely a result of the malfunctioning of: [Question ID = 52080] Option ID = 88315] [Option ID = 88312] ortex [Option ID = 88313] nedulla [Option ID = 88314] wer :- cortex [Option ID = 88313] teria, partial diploids for a specific gene can be generated by D = 52087]
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1. is one quarter [Option ID = 8	35591
2. same as that between siblin	
<ol> <li>Lower than that between sib</li> </ol>	
4. Higher than that between sil	
Correct Answer :-	and [Ontion ID - 99[F0]
<ul> <li>same as that between sibling</li> </ul>	
13) 1 map unit or centimor	gam (cM) is equal to [Question ID = 52122]
1. 100% recombination [Optior	n ID = 88483]
2. 1% recombination [Option ]	-
3. 10% recombination [Option	
4. 0.1% recombination [Option	ID = 88480]
Correct Answer :-	
1% recombination [Option	ID = 88481]
	inked in cis. The genes are 20cM apart. If an individual with the genotype XxYy is test crossed what ill have the genotype XxYy? [Question ID = 52150]
1. 40 [Option ID = 88594]	
2. 20 [Option ID = 88593]	
3. 80 [Option ID = 88595]	
4. 10 [Option ID = 88592]	
Correct Answer :-	
40 [Option ID = 88594]	
1. 100 [Option ID = 88523]	e located on two different chromosomes of a diploid cell. If an individual heterozygous for the two genes is e of the progeny will be homozygous for at least one of the genes? [Question ID = 52132]
1. 100 [Option ID = 88523] 2. 75 [Option ID = 88522] 3. 50 [Option ID = 88521]	
1. 100 [Option ID = 88523] 2. 75 [Option ID = 88522] 3. 50 [Option ID = 88521] 4. 25 [Option ID = 88520]	
<ol> <li>1. 100 [Option ID = 88523]</li> <li>2. 75 [Option ID = 88522]</li> <li>3. 50 [Option ID = 88521]</li> <li>4. 25 [Option ID = 88520]</li> </ol> Correct Answer :- <ul> <li>75 [Option ID = 88522]</li> </ul> 16) Two genes are located 7 [Question ID = 52136] 1. 35% [Option ID = 88537]	
<ol> <li>100 [Option ID = 88523]</li> <li>75 [Option ID = 88522]</li> <li>50 [Option ID = 88521]</li> <li>25 [Option ID = 88520]</li> </ol> Correct Answer :- <ul> <li>75 [Option ID = 88522]</li> </ul> 16) Two genes are located 7 Question ID = 52136] 1. 35% [Option ID = 88537] 2. 70% [Option ID = 88536]	e of the progeny will be homozygous for at least one of the genes? [Question ID = 52132]
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<ol> <li>100 [Option ID = 88523]</li> <li>75 [Option ID = 88522]</li> <li>50 [Option ID = 88521]</li> <li>25 [Option ID = 88520]</li> </ol> Correct Answer :- <ul> <li>75 [Option ID = 88522]</li> </ul> 16) Two genes are located 7 Question ID = 52136] 1. 35% [Option ID = 88537] 2. 70% [Option ID = 88536] 3. anywhere between 50% and 1. ≤50% [Option ID = 88538] Correct Answer :-	e of the progeny will be homozygous for at least one of the genes? [Question ID = 52132]
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1. 100 [Option ID = 88523] 2. 75 [Option ID = 88522] 3. 50 [Option ID = 88521] 4. 25 [Option ID = 88520] Correct Answer :- • 75 [Option ID = 88522] 16) Two genes are located 7 [Question ID = 52136] 1. 35% [Option ID = 88537] 2. 70% [Option ID = 88536] 3. anywhere between 50% and 14. $\leq$ 50% [Option ID = 88538] Correct Answer :- • $\leq$ 50% [Option ID = 88538] 17) A second mutation in the	e of the progeny will be homozygous for at least one of the genes? [Question ID = 52132] OcM apart in the same chromosome. The percentage of recombination between the two genes would be: 70% [Option ID = 88539] e same gene restores the wild-type phenotype. This phenomenon is referred to as [Question ID = 52147]
1. 100 [Option ID = 88523] 2. 75 [Option ID = 88522] 3. 50 [Option ID = 88521] 4. 25 [Option ID = 88520] Correct Answer :- 75 [Option ID = 88522] 1. 35% [Option ID = 88537] 2. 70% [Option ID = 88536] 3. anywhere between 50% and 14. ≤50% [Option ID = 88538] Correct Answer :- h ≤ 50%	e of the progeny will be homozygous for at least one of the genes? [Question ID = 52132] OCM apart in the same chromosome. The percentage of recombination between the two genes would be: 70% [Option ID = 88539] e same gene restores the wild-type phenotype. This phenomenon is referred to as [Question ID = 52147] ion ID = 88582]
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1. 100 [Option ID = 88523] 2. 75 [Option ID = 88522] 3. 50 [Option ID = 88521] 4. 25 [Option ID = 88520] Correct Answer :- • 75 [Option ID = 88522] 16) Two genes are located 7 [Question ID = 52136] 1. 35% [Option ID = 88537] 2. 70% [Option ID = 88536] 3. anywhere between 50% and $^{-1}$ 4. ≤50% [Option ID = 88538] Correct Answer :- • ≤50% [Option ID = 88538] 17) A second mutation in the 1. intragenic suppression [Option ID = 88583] 17) A second mutation in the 1. intragenic complementation 4. epistasis [Option ID = 88583]	e of the progeny will be homozygous for at least one of the genes? [Question ID = 52132] OcM apart in the same chromosome. The percentage of recombination between the two genes would be: 70% [Option ID = 88539] e same gene restores the wild-type phenotype. This phenomenon is referred to as [Question ID = 52147] ton ID = 88582] 1] (Option ID = 88582] 1] (Option ID = 88580] 3]
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1. 100 [Option ID = 88523]         2. 75 [Option ID = 88522]         3. 50 [Option ID = 88521]         4. 25 [Option ID = 88520]         Correct Answer :-         75 [Option ID = 88522]         Correct Answer :-         75 [Option ID = 88522]         Logenes are located 7         Question ID = 52136]         1. 35% [Option ID = 88537]         2. 70% [Option ID = 88536]         3. anywhere between 50% and 4. ≤50% [Option ID = 88538]         Correct Answer :-         • ≤50% [Option ID = 88538]         L7) A second mutation in the         1. intragenic suppression [Option ID = 88583]         Correct Answer :-         • epistasis [Option ID = 88583]         Correct Answer :-         • intragenic suppression [Option ID = 88583]         Correct Answer :-         • intragenic suppression [Option ID = 88583]         Correct Answer :-         • intragenic suppression [Option ID = 88583]         Correct Answer :-         • intragenic suppression [Option ID = 88583]	e of the progeny will be homozygous for at least one of the genes? [Question ID = 52132]  OcM apart in the same chromosome. The percentage of recombination between the two genes would be:  70% [Option ID = 88539]  e same gene restores the wild-type phenotype. This phenomenon is referred to as [Question ID = 52147] ion ID = 88582]  i) ion ID = 88580] i]
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Nicks in newly synthesized DNA [Option ID = 88257]
 Hemi-methylation of newly synthesized DNA [Option ID = 88256]
 Double stranded breaks in newly synthesized DNA [Option ID = 88258]

orrect Answer :-	
Hemi-methylation of newly synthesized DNA [Option ID = 8825	6]
f lac z gene. The competent cells were allowed to take up t	earcher introduced the DNA of interest within ampicilin resistant gene instead the plasmid and then plated in the media containing ampicilin, X-gal and IPTG mids were recombinant which one of the following statements correctly
Question ID = 52096]	
All of the bacteria would grow and give white colonies. [Option II The bacteria which took up the plasmids would grow and give blu The bacteria which took up the plasmids would not grow. [Option The bacteria which took up the plasmids would form white coloni	ue colonies. [Option ID = 88376] n ID = 88377]
orrect Answer :-	
The bacteria which took up the plasmids would not grow. [Opti	on ID = 88377]
rder :	s of <i>E. coli</i> , the pair-wise frequencies of recombination fell in the following
AB > AC > AD	
The most probable order of these genes on the bacte	erial chromosome would be:
ABDC [Option ID = 88347]           ABCD [Option ID = 88344]           ADCB [Option ID = 88346]           ACDB [Option ID = 88345]	
orrect Answer :- ADCB [Option ID = 88346]	
1) The RNA components of ribosomes are synthesized in t	he [Question ID = 52116]
nucleolus [Option ID = 88458] endoplasmic reticulum [Option ID = 88459] nucleus [Option ID = 88457] Cytoplasm [Option ID = 88456]	
orrect Answer :-	
nucleolus [Option ID = 88458]	
<ol> <li>Within the aqueous environment of an animal cell, sugases monomers instead of polymers, which of the following provident in the second s</li></ol>	ars are stored as polymers rather than as monomers. If the sugars were stored roperties would be LEAST affected?
pH [Option ID = 88391] Freezing point [Option ID = 88388] Boiling point [Option ID = 88389] Viscosity [Option ID = 88390]	
orrect Answer :-	
pH [Option ID = 88391]	
<ol> <li>The key difference between dominance and epistasis is</li> </ol>	: [Question ID = 52144]
dominance deals with two alleles; epistasis deals with two gene dominance fits with Mendel's laws; epistasis is an exception to i epistasis is a case of incomplete dominance [Option ID = 88569] dominance expresses a relationship between two alleles; epistasi	s [Option ID = 88568] ndependent assortment [Option ID = 88571]
orrect Answer :-	

24) The end product of glycolysis of a glucose molecule is: [Question ID = 52093]
2 Pyruvate, NADH <sub>2</sub> and 2 ATP [Option ID = $88364$ ]
Pyruvate, NADH <sub>2</sub> and ADP 2. [Option ID = 88366]
2 Pyruvate, 2NADH <sub>2</sub> and ATP
3. [Option ID = 88365]
Pyruvate, 2H <sup>+</sup> , 2e <sup>-</sup> and 4 ATP 4. [Option ID = 88367]
Correct Answer :-
25) During eukaryotic cell division, metaphase to anaphase transition is regulated by degradation of [Question ID = 52095]
1. Cyclin B1 [Option ID = 88372]
2. Aurora A kinase [Option ID = 88374] 3. CDK1 [Option ID = 88373]
4. Polo-like kinase [Option ID = 88375]
Correct Answer :-
Cyclin B1 [Option ID = 88372]
26) Fluorescence recovery after photobleaching in live cells is used to determine [Question ID = 52105]
1. Co-localization of proteins [Option ID = 88412] 2. Diffusion of proteins [Option ID = 88414]
3. Distance between two organelles [Option ID = 88413]
4. Nucleic acid compactness [Option ID = 88415]
Correct Answer :- • Diffusion of proteins [Option ID = 88414]
27) Monorvantic twin studies in humans are useful heaven [Auestion ID = 52155]
27) Monozygotic twin studies in humans are useful because: [Question ID = 52155]
<ul> <li>27) Monozygotic twin studies in humans are useful because: [Question ID = 52155]</li> <li>1. twins have a greater likelihood of being heterozygous for a given trait [Option ID = 88613]</li> <li>2. more refined estimates can be made regarding location of the genes on chromosomes [Option ID = 88612]</li> </ul>
<ol> <li>twins have a greater likelihood of being heterozygous for a given trait [Option ID = 88613]</li> <li>more refined estimates can be made regarding location of the genes on chromosomes [Option ID = 88612]</li> <li>they allow a true estimate of the environmental influences on phenotypic variation [Option ID = 88614]</li> </ol>
<ol> <li>twins have a greater likelihood of being heterozygous for a given trait [Option ID = 88613]</li> <li>more refined estimates can be made regarding location of the genes on chromosomes [Option ID = 88612]</li> </ol>
<ol> <li>twins have a greater likelihood of being heterozygous for a given trait [Option ID = 88613]</li> <li>more refined estimates can be made regarding location of the genes on chromosomes [Option ID = 88612]</li> <li>they allow a true estimate of the environmental influences on phenotypic variation [Option ID = 88614]</li> <li>they allow a true estimate of the genetic influence on phenotypic variation [Option ID = 88615]</li> </ol> <b>Correct Answer :-</b>
<ol> <li>twins have a greater likelihood of being heterozygous for a given trait [Option ID = 88613]</li> <li>more refined estimates can be made regarding location of the genes on chromosomes [Option ID = 88612]</li> <li>they allow a true estimate of the environmental influences on phenotypic variation [Option ID = 88614]</li> <li>they allow a true estimate of the genetic influence on phenotypic variation [Option ID = 88615]</li> </ol>
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<ol> <li>twins have a greater likelihood of being heterozygous for a given trait [Option ID = 88613]</li> <li>more refined estimates can be made regarding location of the genes on chromosomes [Option ID = 88612]</li> <li>they allow a true estimate of the environmental influences on phenotypic variation [Option ID = 88614]</li> <li>they allow a true estimate of the genetic influence on phenotypic variation [Option ID = 88615]</li> <li>Correct Answer :-         <ul> <li>they allow a true estimate of the environmental influences on phenotypic variation [Option ID = 88615]</li> </ul> </li> <li>Plasmid vectors used in cloning experiments often contain a fragment encoding the N-terminal 146 amino acids of β-galactosidase</li> </ol>
<ol> <li>twins have a greater likelihood of being heterozygous for a given trait [Option ID = 88613]</li> <li>more refined estimates can be made regarding location of the genes on chromosomes [Option ID = 88612]</li> <li>they allow a true estimate of the environmental influences on phenotypic variation [Option ID = 88614]</li> <li>they allow a true estimate of the genetic influence on phenotypic variation [Option ID = 88615]</li> <li>Correct Answer :-         <ul> <li>they allow a true estimate of the environmental influences on phenotypic variation [Option ID = 88614]</li> <li>they allow a true estimate of the environmental influences on phenotypic variation [Option ID = 88614]</li> </ul> </li> <li>they allow a true estimate of the environmental influences on phenotypic variation [Option ID = 88614]</li> <li>they allow a true estimate of the environmental influences on phenotypic variation [Option ID = 88614]</li> <li>they allow a true estimate of the environmental influences on phenotypic variation [Option ID = 88614]</li> <li>they allow a true estimate of the environmental influences on phenotypic variation [Option ID = 88614]</li> <li>they allow a true estimate of the environmental influences on phenotypic variation [Option ID = 88614]</li> </ol>
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<ol> <li>twins have a greater likelihood of being heterozygous for a given trait [Option ID = 88613]</li> <li>more refined estimates can be made regarding location of the genes on chromosomes [Option ID = 88612]</li> <li>they allow a true estimate of the environmental influences on phenotypic variation [Option ID = 88614]</li> <li>they allow a true estimate of the genetic influence on phenotypic variation [Option ID = 88615]</li> <li>Correct Answer :-         <ul> <li>they allow a true estimate of the environmental influences on phenotypic variation [Option ID = 88614]</li> </ul> </li> <li>they allow a true estimate of the environmental influences on phenotypic variation [Option ID = 88614]</li> <li>they allow a true estimate of the environmental influences on phenotypic variation [Option ID = 88614]</li> <li>they allow a true estimate of the environmental influences on phenotypic variation [Option ID = 88614]</li> <li>they allow a true estimate of the environmental influences on phenotypic variation [Option ID = 88614]</li> <li>they allow a true estimate of the environmental influences on phenotypic variation [Option ID = 88614]</li> <li>they allow a true estimate of the environmental influences on phenotypic variation [Option ID = 88614]</li> <li>they allow a true estimate of the environmental influences on phenotypic variation [Option ID = 88614]</li> <li>they allow a true estimate of the environmental influences on phenotypic variation [Option ID = 88614]</li> <li>It allows selection of the insert into the vector [Option ID = 88263]</li> <li>It allows selection of <i>E. coli</i> host cells that contain plasmid in which the insert has been ligated [Option ID = 88261]</li> <li>It allows selection of <i>E. coli</i> host cells that contain the plasmid [Option ID = 88260]</li> </ol>
<ol> <li>twins have a greater likelihood of being heterozygous for a given trait [Option ID = 88613]</li> <li>more refined estimates can be made regarding location of the genes on chromosomes [Option ID = 88612]</li> <li>they allow a true estimate of the environmental influences on phenotypic variation [Option ID = 88614]</li> <li>they allow a true estimate of the genetic influence on phenotypic variation [Option ID = 88615]</li> <li>Correct Answer :-         <ul> <li>they allow a true estimate of the environmental influences on phenotypic variation [Option ID = 88614]</li> <li>they allow a true estimate of the environmental influences on phenotypic variation [Option ID = 88614]</li> </ul> </li> <li>28) Plasmid vectors used in cloning experiments often contain a fragment encoding the N-terminal 146 amino acids of β-galactosidase gene because:         <ul> <li>[Question ID = 52067]</li> <li>It callews the plasmid vector to replicate in <i>E. coll</i> host cells [Option ID = 88263]</li> <li>It facilitates the ligation of the insert into the vector [Option ID = 88262]</li> <li>It allows selection of <i>E. coll</i> host cells that contain plasmid in which the insert has been ligated [Option ID = 88261]</li> <li>It allows selection of <i>E. coll</i> host cells that contain the plasmid [Option ID = 88260]</li> <li>Correct Answer :-</li> </ul> </li> </ol>
<ol> <li>twins have a greater likelihood of being heterozygous for a given trait [Option ID = 88613]</li> <li>more refined estimates can be made regarding location of the genes on chromosomes [Option ID = 88612]</li> <li>they allow a true estimate of the environmental influences on phenotypic variation [Option ID = 88614]</li> <li>they allow a true estimate of the environmental influences on phenotypic variation [Option ID = 88615]</li> <li>Correct Answer :-         <ul> <li>they allow a true estimate of the environmental influences on phenotypic variation [Option ID = 88614]</li> </ul> </li> <li>they allow a true estimate of the environmental influences on phenotypic variation [Option ID = 88614]</li> <li>they allow a true estimate of the environmental influences on phenotypic variation [Option ID = 88614]</li> <li>they allow a true estimate of the environmental influences on phenotypic variation [Option ID = 88614]</li> <li>they allow a true estimate of the environmental influences on phenotypic variation [Option ID = 88614]</li> <li>they allow a true estimate of the environmental influences on phenotypic variation [Option ID = 88614]</li> <li>they allow a true estimate of the environmental influences on phenotypic variation [Option ID = 88614]</li> <li>they allow a true estimate of the environmental influences on phenotypic variation [Option ID = 88614]</li> <li>they allow a true estimate of the environmental influences on phenotypic variation [Option ID = 88614]</li> <li>It an allow selection of <i>E. coli</i> host cells (Option ID = 88263]</li> <li>It allows selection of <i>E. coli</i> host cells that contain plasmid in which the insert has been ligated [Option ID = 88261]</li> <li>It allows selection of <i>E. coli</i> host cells that contain plasmid in which the insert has been ligated [Option ID = 88261]</li> <li>It allows selection of <i>E. coli</i> host cells that contain plasmid in which the insert has been ligated [Opt</li></ol>
<ol> <li>twins have a greater likelihood of being heterozygous for a given trait [Option ID = 88613]</li> <li>more refined estimates can be made regarding location of the genes on chromosomes [Option ID = 88612]</li> <li>they allow a true estimate of the environmental influences on phenotypic variation [Option ID = 88614]</li> <li>they allow a true estimate of the environmental influences on phenotypic variation [Option ID = 88615]</li> <li><b>Correct Answer :-</b> <ul> <li>they allow a true estimate of the environmental influences on phenotypic variation [Option ID = 88614]</li> </ul> </li> <li><b>28)</b> Plasmid vectors used in cloning experiments often contain a fragment encoding the N-terminal 146 amino acids of β-galactosidase gene because:         <ul> <li>[Question ID = 52067]</li> <li>It enables the plasmid vector to replicate in <i>E. coll</i> host cells [Option ID = 88263]</li> <li>It facilitates the ligation of the insert into the vector [Option ID = 88262]</li> <li>It allows selection of <i>E. coll</i> host cells that contain plasmid [Option ID = 88260]</li> </ul> </li> <li><b>Correct Answer :-</b> <ul> <li>It allows selection of <i>E. coll</i> host cells that contain plasmid in which the insert has been ligated [Option ID = 88261]</li> <li>It allows selection of <i>E. coll</i> host cells that contain plasmid in which the insert has been ligated [Option ID = 88261]</li> <li><b>Correct Answer :-</b> <ul> <li>It allows selection of <i>E. coll</i> host cells that contain plasmid in which the insert has been ligated [Option ID = 88261]</li> </ul> </li> <li><b>Correct Answer :-</b> <ul> <li>It allows selection of <i>E. coll</i> host cells that contain plasmid in which the insert has been ligated [Option ID = 88261]</li> </ul> </li> <li><b>Coll host cells that contain plasmid in which the insert h</b></li></ul></li></ol>
<ul> <li>twins have a greater likelihood of being heterozygous for a given trait [Option ID = 88613]</li> <li>more refined estimates can be made regarding location of the genes on chromosomes [Option ID = 88612]</li> <li>they allow a true estimate of the environmental influences on phenotypic variation [Option ID = 88614]</li> <li>they allow a true estimate of the genetic influence on phenotypic variation [Option ID = 88615]</li> </ul> <b>Correct Answer :-</b> <ul> <li>they allow a true estimate of the environmental influences on phenotypic variation [Option ID = 88614]</li> </ul> <b>28)</b> Plasmid vectors used in cloning experiments often contain a fragment encoding the N-terminal 146 amino acids of β-galactosidase gene because: <b>[Question ID = 52067]</b> 1. It enables the plasmid vector to replicate in <i>E. coli</i> host cells [Option ID = 88263] 2. It facilitates the ligation of the insert into the vector [Option ID = 88262] 3. It facilitates the ligation of <i>E. coli</i> host cells that contain plasmid in which the insert has been ligated [Option ID = 88261] 4. It allows selection of <i>E. coli</i> host cells that contain plasmid in which the insert has been ligated [Option ID = 88261] 29) Calvin cycle represents one of the following phenomenon: [Question ID = 52074] 1. Oxidative carboxylation [Option ID = 88209] 2. Dark respiration [Option ID = 88229]
<ol> <li>twins have a greater likelihood of being heterozygous for a given trait [Option ID = 88613]</li> <li>more refined estimates can be made regarding location of the genes on chromosomes [Option ID = 88612]</li> <li>they allow a true estimate of the environmental influences on phenotypic variation [Option ID = 88614]</li> <li>they allow a true estimate of the genetic influence on phenotypic variation [Option ID = 88615]</li> <li>Correct Answer :-         <ul> <li>they allow a true estimate of the environmental influences on phenotypic variation [Option ID = 88614]</li> </ul> </li> <li>28) Plasmid vectors used in cloning experiments often contain a fragment encoding the N-terminal 146 amino acids of β-galactosidase gene because:         <ul> <li>[Question ID = 52067]</li> <li>It enables the plasmid vector to replicate in <i>E. coll</i> host cells [Option ID = 88263]</li> <li>It facilitates the ligation of the insert into the vector [Option ID = 88262]</li> <li>It allows selection of <i>E. coll</i> host cells that contain plasmid in which the insert has been ligated [Option ID = 88261]</li> </ul> <li>Correct Answer :-         <ul> <li>It allows selection of <i>E. coll</i> host cells that contain plasmid in which the insert has been ligated [Option ID = 88261]</li> <li>It allows selection of <i>E. coll</i> host cells that contain plasmid in which the insert has been ligated [Option ID = 88261]</li> </ul> </li> <li>Correct Answer :-         <ul> <li>It allows selection of <i>E. coll</i> host cells that contain plasmid in which the insert has been ligated [Option ID = 88261]</li> </ul> </li> <li>Correct Answer :-         <ul> <li>It allows selection of <i>E. coll</i> host cells that contain plasmid in which the insert has been ligated [Option ID = 88261]</li> <li>Oxidative carboxylatin (Option ID = 88290]</li> <li>Oxidative carboxy</li></ul></li></li></ol>
<ol> <li>twins have a greater likelihood of being heterozygous for a given trait [Option ID = 88613]</li> <li>more refined estimates can be made regarding location of the genes on chromosomes [Option ID = 88612]</li> <li>they allow a true estimate of the environmental influences on phenotypic variation [Option ID = 88614]</li> <li>they allow a true estimate of the genetic influence on phenotypic variation [Option ID = 88613]</li> <li>correct Answer :-         <ul> <li>they allow a true estimate of the environmental influences on phenotypic variation [Option ID = 88614]</li> </ul> </li> <li>28) Plasmid vectors used in cloning experiments often contain a fragment encoding the N-terminal 146 amino acids of β-galactosidase gene because:         <ul> <li>[Question ID = 52067]</li> <li>It enables the plasmid vector to replicate in <i>E. coll</i> host cells [Option ID = 88263]</li> <li>It callows selection of <i>E. coll</i> host cells that contain plasmid in which the insert has been ligated [Option ID = 88261]</li> <li>It allows selection of <i>E. coll</i> host cells that contain plasmid in which the insert has been ligated [Option ID = 88261]</li> <li>It allows selection of <i>E. coll</i> host cells that contain plasmid in which the insert has been ligated [Option ID = 88261]</li> </ul> </li> <li>Correct Answer :-         <ul> <li>It allows selection of <i>E. coll</i> host cells that contain plasmid in which the insert has been ligated [Option ID = 88261]</li> <li>Oxidative carboxylation [Option ID = 88290]</li> <li>Dark respiration [Option ID = 88290]</li> <li>Dark reportation [Option ID = 88290]</li> <li>Dark phosphorylation [Option ID = 88283]</li> </ul> </li> </ol>

When water is sprinkled on a red-hot iron plate, the drops become spherical and do not vaporize at once because: [Question ID = 52063]		
<ol> <li>A layer of water vapour is formed between the plate and the drops which prevent heat conduction [Option ID = 88246]</li> <li>At this place the temperature of the hot plate falls [Option ID = 88244]</li> <li>Water molecules aggregate into drops [Option ID = 88247]</li> <li>Boiling point of water rises [Option ID = 88245]</li> </ol>		
<ul> <li>Correct Answer :-</li> <li>A layer of water vapour is formed between the plate and the drops which prevent heat conduction [Option ID = 88246]</li> </ul>		
31) The initial mechanism for repairing nucleotide errors in DNA during replication is [Question ID = 52113]		
<ol> <li>thymine dimers [Option ID = 88447]</li> <li>nucleotide excision repair [Option ID = 88446]</li> <li>DNA polymerase proofreading [Option ID = 88445]</li> <li>mismatch repair [Option ID = 88444]</li> </ol>		
Correct Answer :- • DNA polymerase proofreading [Option ID = 88445]		
32) Why is it that inhaling nitric oxide reduces blood pressure only in lung tissue and not elsewhere in the body? Because [Question ID = 52077]		
<ol> <li>nitric oxide cannot cross plasma membranes [Option ID = 88301]</li> <li>nitric oxide cannot enter the bloodstream [Option ID = 88303]</li> <li>other body tissues use a different signalling molecule [Option ID = 88300]</li> <li>nitric oxide breaks down quickly and thus cannot travel far [Option ID = 88302]</li> </ol>		
Correct Answer :- <ul> <li>nitric oxide breaks down quickly and thus cannot travel far [Option ID = 88302]</li> </ul>		
33) A non-competitive inhibitor of an enzyme-catalyzed reaction: [Question ID = 52062]		
reduces $K_{\rm M}$ and increases $V_{\rm max}$ [Option ID = 88242]		
no effect on $K_{\rm M}$ and reduces $V_{\rm max}$ [Option ID = 88241]		
reduces $K_{\rm M}$ and reduces $V_{\rm max}$ 3. [Option ID = 88243]		
increases $K_{\rm M}$ and increases $V_{\rm max}$ 4. [Option ID = 88240]		
Correct Answer :-		
no effect on $K_{\rm M}$ and reduces $V_{\rm max}$ [Option ID = 88241]		
34) Removal of gene activity of A from a linear pathway results in higher than normal levels of transcripts from gene B. A reasonable hypothesis would be that:		
[Question ID = 52075]		
<ol> <li>Gene B must act upstream to gene A [Option ID = 88292]</li> <li>Increase in transcript B abundance is an experimental error [Option ID = 88295]</li> <li>Gene A has no relation to transcript of gene B [Option ID = 88293]</li> <li>Gene B acts downstream to gene A and is regulated by A directly or indirectly [Option ID = 88294]</li> </ol>		
Correct Answer :- • Gene B acts downstream to gene A and is regulated by A directly or indirectly [Option ID = 88294]		
35) A condition where the genotypic ratio obeys Mendelian laws while the phenotypic ratio does not is referred as: [Question ID = 52149]		
<ol> <li>test cross [Option ID = 88590]</li> <li>back cross [Option ID = 88591]</li> <li>epistasis [Option ID = 88589]</li> <li>incomplete dominance [Option ID = 88588]</li> </ol>		
Correct Answer :-		

• inc	omplete dominance [Option ID = 88588]
36) I	human, cell cycle is regulated by all of the following EXCEPT: [Question ID = 52126]
1. U	piquitinylation of proteins [Option ID = 88496]
	nthesis of cyclin proteins [Option ID = 88498]
	vteolysis of Cdks [Option ID = 88497] vteolysis of cyclin proteins [Option ID = 88499]
т. гн	
	t Answer :-
• Pr	oteolysis of Cdks [Option ID = 88497]
-	a cell makes both a signalling molecule and the receptor for that signalling molecule, what is this mode of signalling termed? tion ID = 52081]
1. End	perine [Option ID = 88317]
	acrine [Option ID = 88319]
	crine [Option ID = 88318] racrine [Option ID = 88316]
	t Answer :-
• Auto	crine [Option ID = 88318]
38) I	meiosis, an inversion in one member of a pair of homologous chromosomes will most likely lead to: [Question ID = 52138]
	mosomes with duplications and deficiencies [Option ID = 88545]
	eased recombination frequency in the inverted region [Option ID = $88546$ ]
	ndisjunction of the affected chromosome [Option ID = 88544] airing of the affected chromosome with a non-homologous chromosome [Option ID = 88547]
•	
	t Answer :-
• Chr	omosomes with duplications and deficiencies [Option ID = 88545]
-	n which of the following regions of a eukaryotic gene will a point mutation most likely have a major negative impact on the function encoded protein? [Question ID = 52108]
1. TI	the third nucleotide of a codon in the first exon [Option ID = 88426]
	The first nucleotide of a codon in the first exon [Option ID = 88427]
	e TATA box in the promoter [Option ID = 88424] he 5'UTR [Option ID = 88425]
	t Answer :-
•	The first nucleotide of a codon in the first exon [Option ID = 88427]
for fre	n an experiment, clones of a plant is grown in a field. The plants were observed to be of different heights. When a graph is plotted quency of plants (Y-axis) against different heights( X-axis). A bell shaped curve was obtained. From the above it can be concluded ne observed variation in height is due to [Question ID = 52143]
	ing a polygenic trait [Option ID = 88564]
	ronment influencing different genotypes differently [Option ID = 88567]
	ation in genotype [Option ID = 88566] vironmental effect [Option ID = 88565]
	t Answer :- vironmental effect [Option ID = 99565]
• []	vironmental effect [Option ID = 88565]
	cross between two independent mutants of Drosophila with vestigial wings results in all the F <sub>1</sub> progeny being wild type. This is se of:
[Ques	tion ID = 52154]
1. Do	minance [Option ID = 88608]
	ppression [Option ID = 88611]
	mplementation [Option ID = 88610]
	stasis [Option ID = 88609]
4. Ep	t Answer :-

42) In <i>E. coli</i> different subsets of genes are transcribed under different stress conditions such as heat shock or nitrogen starvation polymerase achieves this by employing different sets of	. RNA
[Question ID = 52115]	
1. beta subunit [Option ID = 88454]	
2. alpha subunit [Option ID = 88455]	
3. omega subunit [Option ID = 88453]	
4. sigma subunit [Option ID = 88452]	
Correct Answer :-	
<ul> <li>sigma subunit [Option ID = 88452]</li> </ul>	
43) Somatic cell hybridisation between man and mouse cells results in	
[Question ID = 52069]	
1. Loss of mouse chromosomes [Option ID = 88268]	
2. Loss of human chromosomes [Option ID = 88269]	
3. Chromosome fusions [Option ID = $88270$ ]	
4. Chromosomal aberrations [Option ID = 88271]	
Correct Answer :-	
Loss of human chromosomes [Option ID = 88269]	
44) Identify the correct match between the animal (flatworm, earthworm, roundworm) and its body cavity type (acoelomate, coel pseudocoelomate): [Question ID = 52084]	omate,
1. Roundworm – pseudocoelomate; Earthworm – coelomate; Flatworm – acoelomate [Option ID = 88330]	
2. Roundworm – pseudocoelomate; Earthworm - acoelomate; Flatworm – coelomate [Option ID = 88328]	
3. Roundworm –coelomate; Earthworm – pseudocoelomate; Flatworm – acoelomate [Option ID = 88331]	
<ol> <li>Roundworm – acoelomate; Earthworm – coelomate; Flatworm – acoelomate [Option ID = 88329]</li> </ol>	
Correct Answer :-	
<ul> <li>Roundworm – pseudocoelomate; Earthworm – coelomate; Flatworm – acoelomate [Option ID = 88330]</li> </ul>	
<ul> <li>45) Which, of the following statements are FALSE?</li> <li>i) Most of the inherited changes in our DNA arise because of exposure to extracellular mutagens, including radiation sources and cl mutagens.</li> <li>ii) Most of the inherited changes in our DNA arise because of unavoidable endogenous errors in cellular mechanisms and harmful er of certain natural molecules and atoms within our cells.</li> <li>iii) Errors in DNA replication and DNA repair are a major source of mutations in our cells.</li> <li>iv) Significant chemical damage is sustained by DNA because of its proximity to water molecules in our cells.</li> </ul>	ffects
1. Only (i) & (ii) [Option ID = 88512]	
2. i, ii, iii [Option ID = 88513]	
3. only (iv) [Option ID = 88515]	
4. only (i) & (iv) [Option ID = 88514]	
Correct Answer :-	
• only (i) & (iv) [Option ID = 88514]	
46) G-banding of metaphase chromosomes are [Question ID = 52107]	
1. Phyla specific [Option ID = 88420]	
2. Species specific [Option ID = 88423]	
3. Family specific [Option ID = 88421]	
4. Genus specific [Option ID = 88422]	
Correct Answer :-	
• Species specific [Option ID = 88423]	
47) What is the anticodon sequence of tRNA used to translate the codon 5' AUU 3' present in the sequence of DNA template strai [Question ID = 52124]	nd?
1. 5' UAA-3' [Option ID = 88488]	
1.5  OAA-5 [Option ID = 86468] $2. 5' AUU-3' [Option ID = 86489]$	
3.5' UUA-3' [Option ID = 88490]	
4. 5' AAU-3' [Option ID = 88491]	
-	

Correct Answer :- • 5' AAU-3' [Option ID = 88491]
48) Substrate-level phosphorylation is catalyzed by which of the following enzymes? [Question ID = 52098]
<ol> <li>Pyruvate kinase [Option ID = 88386]</li> <li>Hexokinase [Option ID = 88384]</li> <li>Glycerol kinase [Option ID = 88385]</li> <li>Galactokinase [Option ID = 88387]</li> </ol>
Correct Answer :- • Pyruvate kinase [Option ID = 88386]
49) During generation of a knockout mouse using homologous recombination, a viral thymidine kinase gene is often included in the vector outside of the region of homology between the vector and targeted chromosome. Which one of the following statement could best explanation of the purpose of this? [Question ID = 52129]
<ol> <li>To allow negative selection of cells in which integration of the targeting sequence has occurred by homologous recombination [Option ID = 88509]</li> <li>To allow positive selection of cells in which integration of the targeting sequence has occurred by homologous recombination [Option ID = 88510]</li> <li>To allow positive selection of cells in which integration of the targeting sequence has occurred by random insertion into the genome [Option ID = 88511]</li> <li>To allow negative selection of cells in which integration of the targeting sequence has occurred by random insertion into the genome [Option ID = 88508]</li> </ol>
<ul> <li>Correct Answer :-</li> <li>To allow negative selection of cells in which integration of the targeting sequence has occurred by random insertion into the genome [Option ID = 88508]</li> </ul>
<ul> <li>50) Following are some statements related to concepts of genetics: <ul> <li>i. Segregation of alleles can occur at Anaphase II of meiosis</li> <li>ii. The alignment of chromosomes at Metaphase I leads to independent assortment</li> <li>iii. Independent assortment can lead to variation</li> <li>Which of the above statements are correct? [Question ID = 52135]</li> </ul> </li> <li>1. Only (i) [Option ID = 88532]</li> <li>2. Only (ii) [Option ID = 88533]</li> <li>3. All (i), (ii) and (iii) [Option ID = 88535]</li> <li>4. Both (i) and (ii) [Option ID = 88534]</li> </ul>
Correct Answer :- <ul> <li>All (i), (ii) and (iii) [Option ID = 88535]</li> </ul>
51) If there were a gene for intelligence and the effect of that gene was altered by the inheritance of another gene, the latter gene would be referred to as a: [Question ID = 52142]
<ol> <li>Regulator gene [Option ID = 88560]</li> <li>Sex controlled gene [Option ID = 88562]</li> <li>Modifier gene [Option ID = 88561]</li> <li>Pleiotropic gene [Option ID = 88563]</li> </ol>
Correct Answer :- • Modifier gene [Option ID = 88561]
52) The number of introns in cDNA having 7 exons are [Question ID = 52125]
<ol> <li>0 [Option ID = 88493]</li> <li>6 [Option ID = 88495]</li> <li>8 [Option ID = 88494]</li> <li>7 [Option ID = 88492]</li> </ol>
Correct Answer :- • 0 [Option ID = 88493]
53) The primary effect of selection is to reduce the variability. The reduction in the frequency of extreme phenotypes by selection is called: [Question ID = 52127]
<ol> <li>Stabilizing selection [Option ID = 88501]</li> <li>Cyclical selection [Option ID = 88502]</li> <li>Discruptive selection [Option ID = 88503]</li> </ol>

Disruptive selection [Option ID = 88503]
 Directional selection [Option ID = 88500]

(4) The watery graveyard on earth for titanium fuel tanks and other high-tech space debris is better known as [Que	stion ID = 52059]
. Final destination point [Option ID = 88230] 2. Point Zero [Option ID = 88229]	
8. Point Nemo [Option ID = 88228]	
. Doomsday point [Option ID = 88231]	
Correct Answer :-	
Point Nemo [Option ID = 88228]	
<ul> <li>5) An auxotrophic mutant arises spontaneously in a wild type <i>E. coli</i> culture growing in a nutrient rich medium. Wh</li> </ul>	ich one of the
ollowing techniques should be used to ensure the isolation of the auxotrophic mutant?	
Question ID = 52060]	
. Replica plating [Option ID = 88232]	
2. Direct microscopic observation [Option ID = 88234]	
<ul> <li>Antibiotic selection [Option ID = 88235]</li> <li>Streaking for single colonies [Option ID = 88233]</li> </ul>	
Correct Answer :-	
Replica plating [Option ID = 88232]	
i6) Which of the following receptors is NOT present on cell surface? [Question ID = 52079]	
. Steroid hormone receptors [Option ID = 88311]	
2. Enzyme linked receptors [Option ID = 88308]	
B. Ion-channel linked receptors [Option ID = 88309]	
. G protein coupled receptors [Option ID = 88310]	
Correct Answer :-	
Steroid hormone receptors [Option ID = 88311]	
i7) Which of the following processes is an example of allosteric regulation of protein activity? [Question ID = 52100]	
	- I
Enzyme inhibition due to ATP binding [Option ID = 88395] 2. Chaperonin-mediated protein folding [Option ID = 88392]	
B. Enzyme activation by a protein kinase [Option ID = 88393]	
. Transit of the nuclear pore by RNA polymerase [Option ID = 88394]	
Correct Answer :-	
Enzyme inhibition due to ATP binding [Option ID = 88395]	
8) Which one of the following statements about chromatin is NOT true? [Question ID = 52094]	
<ul> <li>Which one of the following statements about chromatin is NOT true? [Question ID = 52094]</li> <li>DNA winds approximately 1.65 times around the nucleosomes [Option ID = 88368]</li> <li>H2A-H2B bind to both the entry and exit ends of DNA in nucleosomes [Option ID = 88369]</li> </ul>	
DNA winds approximately 1.65 times around the nucleosomes [Option ID = 88368] 2. H2A-H2B bind to both the entry and exit ends of DNA in nucleosomes [Option ID = 88369] 3. Non-histone proteins are part of mitotic chromosomes [Option ID = 88371]	
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	he direction of the field [Option ID = 88252] he direction perpendicular to that of the field [Option ID = 88254]
Correct Answer : Do not get defle	- cted at all [Option ID = 88255]
51) In which one mage without th	of the following microscopy techniques the specimen interfere with the wavelength of light to produce a high contrast e need of dyes or any damage to the sample? [Question ID = 52101]
<ol> <li>Fluorescence m</li> <li>Phase contrast m</li> </ol>	roscopy [Option ID = 88398] icroscopy [Option ID = 88399] icroscopy [Option ID = 88397] nicroscopy [Option ID = 88396]
Correct Answer :	
	nicroscopy [Option ID = 88397]
62) The value of	which of the following parameters is zero when the cell is fully turgid? [Question ID = 52076]
1. Osmotic pressu	re [Option ID = 88298]
	ure deficit/water potential [Option ID = 88299]
	e/potential pressure [Option ID = 88296] Option ID = 88297]
Correct Answer :	-
Diffusion press	sure deficit/water potential [Option ID = 88299]
<ol> <li>Allopolyploid [0</li> <li>Gametopolyploid</li> <li>Autopolyploid</li> </ol>	th multiple sets of chromosomes from different species is called: [Question ID = 52146] Diption ID = 88578] Did [Option ID = 88577] [Option ID = 88579] d [Option ID = 88576]
Correct Answer : • Allopolyploid [0	- Dption ID = 88578]
64) Non-pigment	ted bacterial suspensions also show optical density in visible light, because of [Question ID = 52070]
1. non-specific refra	ction of light [Option ID = 88274]
2. scattering of light	[Option ID = 88275]
	it of specific wavelength [Option ID = 88272] ific wavelengths of light [Option ID = 88273]
•	
• scattering of light	- t [Option ID = 88275]
,	soluble proteins containing proteins X and Y is immunoprecipitated using anti-protein X antibody. Both protein X and nunoprecipitated. Which of the following does NOT explain this observation? [Question ID = 52097]
	tein Y are present in the same organelle [Option ID = 88383]
	tein Y are covalently bound. [Option ID = 88381]
	ncated version of protein X. [Option ID = 88382] otein Y are part of the same multimeric complex. [Option ID = 88380]
Correct Answer :	-
Protein X and pro	otein Y are present in the same organelle [Option ID = 88383]
mutant he made a	entified a variegation mutant in the leaf colour in a normal green population of maize. To study the genetics of this a cross between variegated and green plants using variegated as the female parent. All the F <sub>1</sub> and F <sub>2</sub> progeny were eaf variegation in maize could be due to:
[Question ID = 52	
	Dption ID = $88596$ ]

Maternal effect [Option ID = 88596]
 Mendelian inheritance [Option ID = 88597]

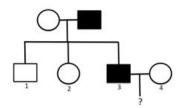
4. Mendelian inheritance, with variegated being dominant over green [Option ID = 88599]

```
Correct Answer :-

    Maternal inheritance [Option ID = 88598]

67)
    Which one of the following changes will not alter the sequence of the encoded
    protein?
                           i. Codon optimization
                           ii. Gene methylation
                          iii. Synonymous mutation
                          iv. Missense mutation
[Question ID = 52119]
1. i & iii [Option ID = 88469]
   ii & iii [Option ID = 88470]
2.
    i & iv [Option ID = 88468]
3.
4. i, ii, & iii [Option ID = 88471]
Correct Answer :-
• i, ii, & iii [Option ID = 88471]
68)
    The genotype of F_1 individuals in a tetrahybrid cross is AaBbCcDd. Assuming
     that genes are independently assorting, what is the probability that the F<sub>2</sub>
     progeny will have the genotype AABbccDd?
[Question ID = 52133]
1. 2/256 [Option ID = 88527]
2. 1/256 [Option ID = 88526]
3. 1/64 [Option ID = 88524]
4. 2/64 [Option ID = 88525]
Correct Answer :-
• 1/64 [Option ID = 88524]
<sup>69)</sup> How should a student prepare 100 mL of a 1.0 M H<sub>2</sub>SO<sub>4</sub> solution from a 10M
     H<sub>2</sub>SO<sub>4</sub> solution?
[Question ID = 52089]
   Adding 10 mL of 10M H_2SO_4 to 90 mL of H_2O
                                                           [Option ID = 88349]
1.
   Adding 10 mL of 10M H<sub>2</sub>SO<sub>4</sub> to 80 mL of H<sub>2</sub>O, stirring and diluting to 100 mL
2. after allowing to cool
                                                                                              [Option ID = 88350]
   Adding 80 mL of H2O to 10 mL of 10M H2SO4, stirring and diluting to 100 mL
   after allowing to cool
3.
                                                                                              [Option ID = 88351]
   Adding 90 mL of H<sub>2</sub>O to 10 mL of 10M H<sub>2</sub>SO<sub>4</sub>
                                                          [Option ID = 88348]
4.
Correct Answer :-
   Adding 10 mL of 10M H<sub>2</sub>SO<sub>4</sub> to 80 mL of H<sub>2</sub>O, stirring and diluting to 100 mL
  after allowing to cool
                                                                                              [Option ID = 88350]
```

The following is a pedigree of a family from a marriage between first cousins. The family shows a rare X-linked trait whose inheritance pattern is shown below. The son (individual-3) showing the trait marries outside the family?



The following statements were made regarding the above trait:

- i. The trait is recessive.
- ii. The trait is dominant.
- iii. The probablity that the daughter (individual 2) is a carrier is 0.
- iv. The probablity that the daughter (individual 2) is a carrier is 1.
- v. The probablity that a son (?) born to individual 3 and 4 will show the trait is 0.
- vi. The probablity that a son (?) born to individual 3 and 4 will show the trait is 1/2.

Which of the above statements are correct?

[Question ID = 52152]

- 1. (i), (iv) and (v) [Option ID = 88601]
- 2. (ii), (iii) and (vi) [Option ID = 88602]
- 3. (ii), (iv) and (v) [Option ID = 88603]
- 4. (i), (iii) and (vi) [Option ID = 88600]

#### Correct Answer :-

- (i), (iv) and (v) [Option ID = 88601]
- 71) The basic unit of radioactive decay is Curie (Ci). 1Ci is equivalent to 2.22 X 10<sup>12</sup> dpm (disintegrations per minute). The disintegrations actually detected by an instrument are referred to as counts per minute (cpm). cpm = dpm X detection efficiency. For example if an instrument has 25% efficiency, 100 cpm = 400 dpm. (Use this information for answering the question below)

The radioactivity in a material was measured to be  $5.55 \times 10^{10}$  cpm using an instrument with 50% efficiency. How many Curies does this correspond to?

## [Question ID = 52104]

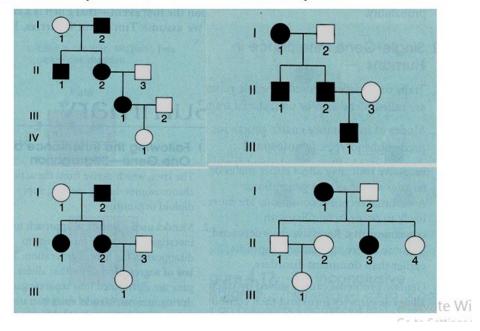
1. 5.0 Ci [Option ID = 88410] 2. 0.5 Ci [Option ID = 88409] 3. 0.05 Ci [Option ID = 88408] 4. 50 Ci [Option ID = 88411]

#### Correct Answer :-

• 0.05 Ci [Option ID = 88408]

72)

Below are four pedigrees depicting families with achondroplasia, a common form of hereditary dwarfism. What is the most likely mode of inheritance?



### [Question ID = 52157]

- 1. X-linked dominant [Option ID = 88622]
- 2. Autosomal recessive [Option ID = 88621]
- 3. Autosomal dominant [Option ID = 88620]
- 4. X-linked recessive [Option ID = 88623]

#### Correct Answer :-

```
• Autosomal dominant [Option ID = 88620]
```

73) You have a mixture of three proteins in a Tris-Cl, pH7.5 solution with the following molecular weight (mw) and isoelectric point (pI): P1 (mw 40 kDa, pI 7.4), P2 (mw150kDa, pI 7.2) and P3 (mw 250kDa, pI 7.3) respectively. What would be the most appropriate technique to separate them in an active form?

#### [Question ID = 52111]

- 1. Immunoprecipitation [Option ID = 88439]
- 2. Anion exchange chromatography [Option ID = 88438]
- 3. Affinity chromatography [Option ID = 88436]
- 4. Size exclusion chromatography [Option ID = 88437]

#### Correct Answer :-

```
• Size exclusion chromatography [Option ID = 88437]
```

74) 0.1ml of a bacterial culture is diluted into 9.9ml of buffer; 0.1ml of this dilution is again diluted in 9.9ml of fresh buffer. Plating 0.1ml from the second dilution tube yields 72 colonies on a petri plate. What is the cell density of the original culture?

# [Question ID = 52121]

- 1. 7.2X10<sup>8</sup> cfu/ml [Option ID = 88479]
- 2. 7.2X10<sup>6</sup> cfu/ml [Option ID = 88477]
- $7.2X10^{5}$ cfu/ml 3. [Option ID = 88476]
- 4.  $7.2 \times 10^7 \text{ cfu/ml}$  [Option ID = 88478]

Correct Answer :-	
• 7.2X10 <sup>6</sup> cfu/ml [Option ID = 88477]	
75) The genotypes of a husband and wife are I <sup>A</sup> I <sup>B</sup> x their children, how many different genotypes ar	
[Question ID = 52128]	
<ol> <li>3 genotypes; 4 phenotypes [Option ID = 88504]</li> <li>3 genotypes; 3 phenotypes [Option ID = 88506]</li> <li>4 genotypes; 3 phenotypes [Option ID = 88507]</li> <li>4 genotypes; 4 phenotypes [Option ID = 88505]</li> </ol>	
Correct Answer :- • 4 genotypes; 3 phenotypes [Option ID = 88507]	
76) It was important that Mendel examined not just breeding experiments, but the F <sub>2</sub> generation as y	
[Question ID = 52131]	
<ol> <li>many of the F<sub>1</sub> progeny died [Option ID = 88518] parental traits not observed in the F<sub>1</sub> generation regeneration</li> </ol>	eappeared in $F_2$ [Option ID = 88517]
3. he obtained very few F <sub>1</sub> progeny, making statist the dominant phenotypes were visible in the F <sub>2</sub> g	ical analysis was difficult [Option ID = $88516$ ]
generation 4.	[Option ID = 88519]
Correct Answer :- parental traits not observed in the F <sub>1</sub> generation regeneration	eappeared in $F_2$ [Option ID = 88517]
77) The level of a pigment in an organism, is co many alleles. Two individuals with varying le obtain F <sub>1</sub> progeny. The level of pigments in follows:	evels of pigment are crossed to
Parent A = 100, Parent B = 10, $F_1$ = 60	
Based on this observation, which one of the relationship between the pair of alleles governi and B?	
[Question ID = 52134]	
<ol> <li>Over-dominance [Option ID = 88530]</li> <li>Incomplete dominance [Option ID = 88528]</li> <li>Polygenic [Option ID = 88531]</li> <li>Co-dominance [Option ID = 88529]</li> </ol>	
Correct Answer :-	

```
The following statements were made about polytene chromosomes in Drosophila:
       Polytene chromosomes are arrested in the metaphase stage of the division
 i.
       without dissolving the synaptonemal complex
       A pair of homologous are synapsed to make the arms of a polytene
 ii.
       chromosome
       The chromocentre of the polytene chromosome is formed by the fusion of the
iii.
       centromeres
       Polytene chromosomes are transcriptionally active
iv.
Which of the above statements are CORRECT?
[Question ID = 52085]
1. Statements (i), (ii) and (iii) [Option ID = 88335]
2. Statements (iii) and (iv) only [Option ID = 88333]
3. Statements (i), (ii) and (iv) [Option ID = 88332]
4. Statements (ii), (iii) and (iv) [Option ID = 88334]
Correct Answer :-

    Statements (ii), (iii) and (iv) [Option ID = 88334]

79) The quantity of DNA can be measured by taking absorbance of a sample at 260 nm.
    Consider that 1OD corresponds to 50 µg DNA/mL. A 2mL sample of DNA showed
    an OD of 0.5. What is the amount of DNA (in ng) in 200µL of the DNA sample?
[Question ID = 52103]
1. 250 [Option ID = 88404]
2. 1000 [Option ID = 88405]
3. 2500 [Option ID = 88406]
4. 5000 [Option ID = 88407]
Correct Answer :-
• 5000 [Option ID = 88407]
80) A phenotypic ratio of 9:3:3:1 was obtained in the F_2 progeny of the dihybrid
     cross in the experiment of Gregor Mendel.
     The following statements refer to the above finding:
        i.
              The two alleles of a gene have a dominant-recessive relationship
       ii.
              The two alleles are co-dominant
              The alleles of a gene segregate from each other
       iii.
              The genes assort independently
       iv.
     Which of the above statements are correct?
[Question ID = 52153]
1. Only iv. [Option ID = 88604]
2. i, ii, iii and iv [Option ID = 88607]
3. i, iii and iv [Option ID = 88606]
4. Only i and iv [Option ID = 88605]
Correct Answer :-
• i, iii and iv [Option ID = 88606]
81)
```

In humans a gene can be mapped to a chromosome by somatic cell hybridization. In this technique, human and mouse somatic cells are fused. In the human-mouse cell hybrids, the human chromosomes are gradually lost in a random fashion. Thus different cell lines derived from the hybrid contain fewer sets of the human chromosomes. The human chromosomes in the hybrid cells can be identified by banding techniques and the presence of the gene under study can be identified in the different cell lines by studying the protein encoded by it. A gene mapping experiment was carried out to identify the location of gene 'X' using the above strategy, results of which is summarized below:

Cell Line	A	В	С	D	E	F	G
Protein X	+	10	+	+	2	-	-
Chromosome 3	+	+	+	1		+	
Chromosome 5	-	120	+	+	+	2	+
Chromosome 6	+	100	+	+	2	5	5
Chromosome 8	+	+	-		-	+	+
Chromosome 9		+		: ::=:	+	+	2

Based on the above data identify the chromosome on which gene 'X' is located.

# [Question ID = 52137]

- 1. Chromosome 9 [Option ID = 88543]
- 2. Chromosome 3 [Option ID = 88540]
- Chromosome 8 [Option ID = 88542]
   Chromosome 6 [Option ID = 88541]

#### Correct Answer :-

• Chromosome 6 [Option ID = 88541]

```
82)
```

Eukaryotic cells and their organelles are disrupted by sonication. A centrifuge is used to separate soluble and insoluble components. Protein X is found in the insoluble fraction following centrifugation. The insoluble fraction is treated with 0.5 M NaCl and centrifugation is repeated. Protein X is still found in the insoluble fraction. The insoluble fraction is now treated with 2% non ionic detergent such as Triton X-100 and centrifugation is repeated. Protein X is now found in the soluble fraction. Protein X would be best described as

## [Question ID = 52090]

1. a soluble nuclear protein [Option ID = 88355]

- 2. a peripheral membrane protein [Option ID = 88353]
- 3. a soluble cytoplasmic protein [Option ID = 88354]
- 4. an integral membrane protein [Option ID = 88352]

#### **Correct Answer :-**

• an integral membrane protein [Option ID = 88352]

83) In a study, it was found that K<sup>+</sup> ion concentration in the root cells of Arabidopsis plant was ~100 fold more than that of the nutrient medium in which the plant was grown. This indicated that K<sup>+</sup> ions were absorbed from the medium

## [Question ID = 52106]

1. by an active, energy dependent process [Option ID = 88417]

- 2. because the plants were grown continuously in the dark [Option ID = 88416]
- 3. through plasmodesmatal connections between the epidermis and the medium [Option ID = 88419]

4. by simple diffusion [Option ID = 88418]

#### Correct Answer :-

by an active, energy dependent process [Option ID = 88417]

**84)** What is the pH of a solution whose H<sup>+</sup> concentration is 0.0001 moles per litre?

[Question ID = 52091]

1. 2 [Option ID = 88356] 2. 6 [Option ID = 88358] 3. 8 [Option ID = 88359]

4. 4 [Option ID = 88357]

Correct Answer :-

• 4 [Option ID = 88357]

<sup>85)</sup> Choose the correct ordering of the following events in meiosis.

- (1) Homologous chromosomes separate
- (2) Chromosomes split at the centromere and sister chromatids

separate

- (3) Homologous chromosomes pair
- (4) Homologous chromosomes recombine

# [Question ID = 52156]

- 1. (2), (3), (4), (1) [Option ID = 88617]
- 2. (4), (3), (1), (2) [Option ID = 88616]
- 3. (3), (4), (1), (2) [Option ID = 88618]
- 4. (3), (4), (2), (1) [Option ID = 88619]

## Correct Answer :-

• (3), (4), (1), (2) [Option ID = 88618]

86) A mutant E. coli strain synthesizes the enzymes permease and β-galactosidase irrespective of the presence of the inducer (allolactose). This can result from

- (i) mutations in the operator region
- (ii) mutations in the repressor gene
- (iii) mutations in the structural genes
- (iv) mutations in the promoter region

Which of the above options are correct?

# [Question ID = 52092]

- 1. Both (i) and (iv) [Option ID = 88363]
- 2. Both (ii) and (iii) [Option ID = 88361]
- 3. Both (i) and (ii) [Option ID = 88362]
- 4. Both (ii) and (iv) [Option ID = 88360]

## **Correct Answer :-**

• Both (i) and (ii) [Option ID = 88362]

87) Rifampicin, an inhibitor of RNA polymerase, is added to a bacterial culture. The culture is immediately divided into three fractions, to which radioactive thymine or uracil or methionine are added, respectively. Five minutes later the cells are lysed and the radioactive label in all macromolecules is monitored. What will you observe? [Question ID = 52086]

1. The labels will be equally incorporated [Option ID = 88336]

- 2. Thymine and methionine incorporation will be greater than uracil [Option ID = 88339]
- 3. Uracil incorporated is similar to methionine but less than thymine [Option ID = 88337]
- 4. Uracil incorporated will be greater than methionine but less than thymine [Option ID = 88338]

#### **Correct Answer :-**

• Thymine and methionine incorporation will be greater than uracil [Option ID = 88339]

88) Unequal contribution to hereditary by males and females can be detected by [Question ID = 52139]	
1. Dihybrid cross [Option ID = 88551]	
2. Reciprocal cross [Option ID = 88548]	
3. Test cross [Option ID = 88550]	
4. Back cross [Option ID = 88549]	
Correct Answer :-	
Reciprocal cross [Option ID = 88548]	
89) Dosage compensation in humans is brought about by [Question ID = 52083]	
<ol> <li>hypoactivity of both X-chromosomes in females [Option ID = 88326]</li> <li>hyperactivity of autosomes in females [Option ID = 88327]</li> </ol>	
<ol> <li>hyperactivity of autosomes in females [Option ID = 88327]</li> <li>hyperactivity of single X-chromosome in males [Option ID = 88325]</li> </ol>	
4. inactivity of one X-chromosome in females [Option ID = 88324]	
Correct Answer :-	
• inactivity of one X-chromosome in females [Option ID = 88324]	
90) If non-disjunction occurs in meiosis I, which of the following scenario is most likely to occur [Question ID = 52114]	
<ol> <li>One gamete will be n+1, two will be n and one will be n-1 [Option ID = 88449]</li> <li>Two gametes will be normal and two will be n-1 [Option ID = 88450]</li> </ol>	
<ol> <li>Two gametes will be normal and two will be n-1 [Option ID = 88450]</li> <li>Two gametes will be normal and two will be n+1 [Option ID = 88451]</li> </ol>	
4. Two gametes will be n+1 and two will be n-1 [Option ID = 88448]	
Correct Answer :-	
• Two gametes will be n+1 and two will be n-1 [Option ID = 88448]	
91) Which of the following parameters are NOT USED to describe the DNA topology ? [Question ID = 52064]	
1. The arrangement of the DNA in the nuclear matrix [Option ID = 88251]	
2. The path of the DNA backbone in space due to torsional stress [Option ID = 88250]	
3. The frequency of the helical turns [Option ID = 88249]	
4. The number of times within certain boundaries that the two strand makes a 360 degree turn [Option ID = 88248]	
Correct Answer :-	
• The arrangement of the DNA in the nuclear matrix [Option ID = 88251]	
92) Zebrafish exhibit horizontal stripes of pigment cells in the skin. A small fraction of a zebrafish population grown in a pond that is contaminated with a mutagen exhibits blue spots in addition to the horizontal stripes. DNA sequence analysis confirms that cells with the blue spots possess a mutation in a gene that controls pigmentation. However, when these blue spotted fish are crossed to the no (wild type) fish these spots do not appear either in F1 or F2 generation. This can be explained by the fact that the mutation leading to colouration	hin ormal
[Question ID = 52145]	
1. gets corrected in the subsequent generations [Option ID = 88572]	
2. is a somatic mutation [Option ID = 88574] 3. is a recessive mutation [Option ID = 88573]	
<ul> <li>4. is a dominant mutation [Option ID = 88575]</li> </ul>	
Correct Answer :-	
• is a somatic mutation [Option ID = 88574]	
93) In glycoproteins, the carbohydrate moiety always gets attached through which of the following amino acids? [Question ID = 52	112]
1. Glutamine or arginine [Option ID = 88441]	
2. Tryptophan or phenylalanine [Option ID = 88443]	
3. Aspartate or glutamate [Option ID = 88442] 4. Asparagine, serine, or threonine [Option ID = 88440]	
Correct Answer :-	
• Asparagine, serine, or threonine [Option ID = 88440]	
94) Compound tissue could be best defined as: [Question ID = 52082]	
<ol> <li>Similar types of cells at different locations performing many functions [Option ID = 88322]</li> <li>Similar types of cells held together by connective tissue [Option ID = 88320]</li> </ol>	

orrect	Answer :-
	erent types of cells performing one function [Option ID = 88321]
5) A te	est cross is generally carried out to :
Questic	on ID = 52148]
1. iden	tify homozygous recessive individuals in the $F_2$ [Option ID = 88586]
2. dete	ermine which allele is dominant and which is recessive [Option ID = 88585]
	rmine if two genes assort independently [Option ID = 88587] tify heterozygous individuals with the dominant phenotype [Option ID = 88584]
n lucin	
	Answer :- tify heterozygous individuals with the dominant phenotype [Option ID = 88584]
this, the [Questic	ershey and Chase's experiment to demonstrate that DNA is the genetic material used radioactivity to label proteins and DNA. For bacteriophage was allowed to grow in media containing radioactive phosphorus or radioactive sulphur. It is expected that on ID = 52120] oactive sulphur will label proteins and radioactive phosphorus will label DNA [Option ID = 88472]
	dioactive sulphur will label DNA and radioactive phosphorus will label proteins [Option ID = 88473]
	h the labels will be found in DNA and proteins to the same extent [Option ID = 88474]
4. rad	ioactive sulphur will label both DNA and protein [Option ID = 88475]
	Answer :-
• radi	oactive sulphur will label proteins and radioactive phosphorus will label DNA [Option ID = 88472]
97) Fill	in the missing words to the quote: "Statistical methods may be described as methods for drawing conclusions about based on computed from the". [Question ID = 52068]
2. Param 3. Samı 4. Statist	ations, Statistics, Samples [Option ID = 88267] leters, Samples, Statistics [Option ID = 88266] ples, Statistics, Parameters [Option ID = 88265] lics, Samples, Populations [Option ID = 88264]
2. Param 3. Samı 4. Statist	ations, Statistics, Samples [Option ID = 88267] ieters, Samples, Statistics [Option ID = 88266] ples, Statistics, Parameters [Option ID = 88265]
<ol> <li>Param</li> <li>Samj</li> <li>Statist</li> <li>Correct</li> <li>Popula</li> <li>Popula</li> <li>Popula</li> <li>I. Phylur</li> <li>Phylur</li> <li>Phylur</li> <li>Kingdo</li> </ol>	ations, Statistics, Samples [Option ID = 88267] neters, Samples, Statistics [Option ID = 88266] ples, Statistics, Parameters [Option ID = 88265] nics, Samples, Populations [Option ID = 88264] Answer :- ations, Statistics, Samples [Option ID = 88267]
<ol> <li>Param</li> <li>Sam</li> <li>Statist</li> <li>Correct</li> <li>Popula</li> <li>Popula</li> <li>Popula</li> <li>Popula</li> <li>Popula</li> <li>Popula</li> <li>I. Phylur</li> <li>Phylur</li> <li>Phylur</li> <li>Kingdo</li> <li>Kingdo</li> </ol>	ations, Statistics, Samples [Option ID = 88267] heters, Samples, Statistics [Option ID = 88266] ples, Statistics, Parameters [Option ID = 88265] ics, Samples, Populations [Option ID = 88264] Answer :- ations, Statistics, Samples [Option ID = 88267] cording to the classical taxonomical system, order the following from the most general taxonomic group to the most specific group stor ID = 52078] n, Kingdom, Order, Family, Class, Genus, Species [Option ID = 88304] n, Kingdom, Class, Family, Order, Genus, Species [Option ID = 88307] om, Phylum, Class, Order, Family, Genus, Species [Option ID = 88305] om, Order, Class, Phylum, Family, Genus, Species, [Option ID = 88306]
<ol> <li>Param</li> <li>Sam</li> <li>Statist</li> <li>Correct</li> <li>Popula</li> <li>Correct</li> </ol>	ations, Statistics, Samples [Option ID = 88267] eters, Samples, Statistics [Option ID = 88266] ples, Statistics, Parameters [Option ID = 88265] i.cs, Samples, Populations [Option ID = 88264] Answer :- ations, Statistics, Samples [Option ID = 88267] cording to the classical taxonomical system, order the following from the most general taxonomic group to the most specific group stion ID = 52078] n, Kingdom, Order, Family, Class, Genus, Species [Option ID = 88304] n, Kingdom, Class, Family, Order, Genus, Species [Option ID = 88307] om, Phylum, Class, Order, Family, Genus, Species [Option ID = 88305]
<ol> <li>Param</li> <li>Sam</li> <li>Statist</li> <li>Correct</li> <li>Popula</li> <li>Correct</li> </ol>	ations, Statistics, Samples [Option ID = 88267] heters, Samples, Statistics [Option ID = 88266] ples, Statistics, Parameters [Option ID = 88265] ics, Samples, Populations [Option ID = 88264] Answer :- ations, Statistics, Samples [Option ID = 88267] cording to the classical taxonomical system, order the following from the most general taxonomic group to the most specific group stion ID = 52078] m, Kingdom, Order, Family, Class, Genus, Species [Option ID = 88304] m, Kingdom, Class, Family, Order, Genus, Species [Option ID = 88307] om, Phylum, Class, Order, Family, Genus, Species [Option ID = 88305] om, Order, Class, Phylum, Family, Genus, Species, [Option ID = 88306] Answer :-
<ol> <li>Param</li> <li>Sam</li> <li>Statist</li> <li>Correct</li> <li>Popula</li> <li>Popula</li></ol>	ations, Statistics, Samples [Option ID = 88267] heters, Samples, Statistics [Option ID = 88266] ples, Statistics, Parameters [Option ID = 88265] ics, Samples, Populations [Option ID = 88264] Answer :- ations, Statistics, Samples [Option ID = 88267] cording to the classical taxonomical system, order the following from the most general taxonomic group to the most specific group stion ID = 52078] m, Kingdom, Order, Family, Class, Genus, Species [Option ID = 88304] m, Kingdom, Class, Family, Order, Genus, Species [Option ID = 88307] om, Phylum, Class, Order, Family, Genus, Species [Option ID = 88305] om, Order, Class, Phylum, Family, Genus, Species, [Option ID = 88306] Answer :-
<ol> <li>Param</li> <li>Samj</li> <li>Statist</li> <li>Correct</li> <li>Popula</li> <li>Popula</li></ol>	ations, Statistics, Samples [Option ID = 88267] eters, Samples, Statistics [Option ID = 88265] ics, Samples, Populations [Option ID = 88264] Answer :- ations, Statistics, Samples [Option ID = 88267] cording to the classical taxonomical system, order the following from the most general taxonomic group to the most specific group stion ID = 52078] m, Kingdom, Order, Family, Class, Genus, Species [Option ID = 88304] m, Kingdom, Class, Family, Order, Genus, Species [Option ID = 88307] om, Phylum, Class, Order, Family, Genus, Species [Option ID = 88305] Answer :- order, Class, Order, Family, Genus, Species [Option ID = 88306] Answer :- ord, Phylum, Class, Order, Family, Genus, Species [Option ID = 88305]
<ol> <li>Param</li> <li>Sam</li> <li>Statist</li> <li>Correct</li> <li>Popula</li> <li>Popula</li></ol>	ations, Statistics, Samples [Option ID = 88267] leters, Samples, Statistics [Option ID = 88265] lics, Samples, Populations [Option ID = 88264] Answer :- ations, Statistics, Samples [Option ID = 88267] cording to the classical taxonomical system, order the following from the most general taxonomic group to the most specific group stion ID = 52078] m, Kingdom, Order, Family, Class, Genus, Species [Option ID = 88304] m, Kingdom, Order, Family, Class, Genus, Species [Option ID = 88307] om, Phylum, Class, Order, Family, Genus, Species [Option ID = 88305] answer :- om, Order, Class, Order, Family, Genus, Species [Option ID = 88305] answer :- om, Phylum, Class, Order, Family, Genus, Species [Option ID = 88305] attention ID = 52102]
<ol> <li>Param</li> <li>Sam</li> <li>Sam</li> <li>Statist</li> </ol> Correct <ul> <li>Popula</li> </ul> 98) Acc <ul> <li>ris: [Que</li> </ul> 98) Acc <ul> <li>ris: [Que</li> </ul> 1. Phylur <ul> <li>Kingdo</li> </ul> 4. Kingdo <ul> <li>Correct</li> <li>Kingdo</li> </ul> 99) The [Questic <ul> <li>1. Autora</li> <li>2. Spectr</li> </ul>	ations, Statistics, Samples [Option ID = 88267] leters, Samples, Statistics [Option ID = 88266] ples, Statistics, Parameters [Option ID = 88264] Answer :- ations, Statistics, Samples [Option ID = 88267] cording to the classical taxonomical system, order the following from the most general taxonomic group to the most specific group stion ID = 52078] n, Kingdom, Order, Family, Class, Genus, Species [Option ID = 88304] n, Kingdom, Order, Family, Class, Genus, Species [Option ID = 88307] om, Phylum, Class, Family, Order, Genus, Species [Option ID = 88307] om, Phylum, Class, Order, Family, Genus, Species [Option ID = 88305] e technique used for demonstrating semi-conservative mode of replication by Meselson and Stahl in <i>E. coli</i> /was: ton ID = 52102] adiography [Option ID = 88402]
2. Param 3. Sam 4. Statist Correct Popula 98) Acc 98) Acc 99) The 90 (1. Autora 2. Spectr 3. Gel Ele	ations, Statistics, Samples [Option ID = 88267] leters, Samples, Statistics [Option ID = 88266] ples, Statistics, Parameters [Option ID = 88264] Answer :- ations, Statistics, Samples [Option ID = 88267] cording to the classical taxonomical system, order the following from the most general taxonomic group to the most specific group stion ID = 52078] m, Kingdom, Order, Family, Class, Genus, Species [Option ID = 88304] m, Kingdom, Class, Family, Order, Genus, Species [Option ID = 88305] om, Order, Class, Phylum, Family, Genus, Species [Option ID = 88305] Answer :- om, Phylum, Class, Order, Family, Genus, Species [Option ID = 88305] e technique used for demonstrating semi-conservative mode of replication by Meselson and Stahl in <i>E. coli</i> was: bon ID = 52102] adlography [Option ID = 88400] roscopy [Option ID = 88400] roscopy [Option ID = 88403]
2. Param 3. Sam 4. Statist Correct Popula 98) Acc 98) Acc 99) The 90 (1. Autora 2. Spectr 3. Gel Ele	ations, Statistics, Samples [Option ID = 88267] leters, Samples, Statistics [Option ID = 88266] ples, Statistics, Parameters [Option ID = 88264] Answer :- ations, Statistics, Samples [Option ID = 88267] cording to the classical taxonomical system, order the following from the most general taxonomic group to the most specific group stion ID = 52078] n, Kingdom, Order, Family, Class, Genus, Species [Option ID = 88304] n, Kingdom, Order, Family, Class, Genus, Species [Option ID = 88307] om, Phylum, Class, Family, Genus, Species [Option ID = 88305] m, Order, Class, Phylum, Family, Genus, Species [Option ID = 88306] Answer :- om, Phylum, Class, Order, Family, Genus, Species [Option ID = 88305] e technique used for demonstrating semi-conservative mode of replication by Meselson and Stahl in <i>E. coli</i> /was: to ID = 52102] adiography [Option ID = 88402]
<ol> <li>Param</li> <li>Samj</li> <li>Statist</li> <li>Correct</li> <li>Popula</li> <li>Popula</li></ol>	ations, Statistics, Samples [Option ID = 88267] leters, Samples, Statistics [Option ID = 88266] ples, Statistics, Parameters [Option ID = 88264] Answer :- ations, Statistics, Samples [Option ID = 88267] cording to the classical taxonomical system, order the following from the most general taxonomic group to the most specific group stion ID = 52078] m, Kingdom, Order, Family, Class, Genus, Species [Option ID = 88304] m, Kingdom, Class, Family, Order, Genus, Species [Option ID = 88305] om, Order, Class, Phylum, Family, Genus, Species [Option ID = 88305] Answer :- om, Phylum, Class, Order, Family, Genus, Species [Option ID = 88305] e technique used for demonstrating semi-conservative mode of replication by Meselson and Stahl in <i>E. coli</i> was: bon ID = 52102] adlography [Option ID = 88400] roscopy [Option ID = 88400] roscopy [Option ID = 88403]

- 2. BB,bb [Option ID = 88627]
- 3. Bb,bb [Option ID = 88624]
- 4. bb,bb [Option ID = 88626]

## Correct Answer :-

• Bb,bb [Option ID = 88624]