Examination: Ph.D. Biochemistry and Molecular Biology	
Section 1 - Section 1	
Question No.1	4.00 Bookmark
Reduction of ribonucleotides to deoxy- ribonucleotides by ribonucleotide reductase requires © NADPH	
○ Tetrahydrofolate	
© Coenzyme A	
© Pyridoxal phosphate	
Question No.2	4.00
Targeting of a newly synthesized protein is most likely requires two signal peptides for which the following destinations in a cell C Lysosome	Bookmark ☐ n one of
© Peroxisome	
© Endoplasmic reticulum	
C Chloroplast	
Question No.3	4.00
	Bookmark □
These boys need some new books,? © isn't it?	
o don't they?	
© is it?	
o do they?	
a de diey.	
Question No.4	4.00
Which of the following promotes platelet production under normal physiological conditions © Interleukin	Bookmark □
○ Pleiotrophin	
© Erythropoietin	
○ Thrombopoietin	
Question No.5	4.00
Density gradient centrifugation can be performed using all of the below EXCEPT © Sucrose	Bookmark □
© Ficoll	
© Percoll	
○ Glucose	
Question No.6	4.00 Bookmark
In recent times, the number of cases of death by poisoning sharply.	DOOKINAIK [
O increased	
ົ has increased	
○ had increased	
ି have increased	
L	

Question No.7	4.00
Which of the following diseases is governed by pleiotropic genes	Bookmark □
© Sickle cell anemia	
G. Calandindaaa	
Color blindness Duchene muscular dystrophy	
C Hemophilia	
,	
Question No.8	4.00
Following statement holds true a duplex DNA	Bookmark □
C Addition of NaCl changes its confirmation	
C Addition of NaCl denatures the DNA	
 Addition of NaCl decreases the melting temperature 	
 Addition of NaCl increases the melting temperature 	
Question No.9	4.00
	Bookmark □
A two digit number is three times the sum of its digits. If 45 is added to it, the digits are rev number is	ersed. The
© 31	
0 27	
O 35	
O 32	
Overting No. 40	4.00
Question No.10	4.00
	Bookmark [
If A+B means A is daughter of B, A-B means A is husband of B	
If A+B means A is daughter of B,	
If A+B means A is daughter of B, A-B means A is husband of B	
If A+B means A is daughter of B, A-B means A is husband of B A × B means A is brother of B	
If A+B means A is daughter of B, A-B means A is husband of B A × B means A is brother of B From the statement P – Q + R × S, how is Q related to S? © Niece © Sister	
If A+B means A is daughter of B, A-B means A is husband of B A × B means A is brother of B From the statement P – Q + R × S, how is Q related to S? Niece Sister Mother	
If A+B means A is daughter of B, A-B means A is husband of B A × B means A is brother of B From the statement P – Q + R × S, how is Q related to S? © Niece © Sister	
If A+B means A is daughter of B, A-B means A is husband of B A × B means A is brother of B From the statement P – Q + R × S, how is Q related to S? Niece Sister Mother	
If A+B means A is daughter of B, A-B means A is husband of B A × B means A is brother of B From the statement P – Q + R × S, how is Q related to S? Niece Sister Mother None of these	Bookmark
If A+B means A is daughter of B, A-B means A is husband of B A × B means A is brother of B From the statement P – Q + R × S, how is Q related to S? Niece Sister Mother None of these Question No.11 Which of the following is not the function of helper T cells	Bookmark ☐ 4.00 Bookmark ☐
If A+B means A is daughter of B, A-B means A is husband of B A × B means A is brother of B From the statement P – Q + R × S, how is Q related to S? Niece Sister Mother None of these	Bookmark ☐ 4.00 Bookmark ☐
If A+B means A is daughter of B, A-B means A is husband of B A × B means A is brother of B From the statement P – Q + R × S, how is Q related to S? Niece Sister Mother None of these Question No.11 Which of the following is not the function of helper T cells They help activate B cells to secrete antibodies and macrophages to destroy inges	Bookmark ☐ 4.00 Bookmark ☐
If A+B means A is daughter of B, A-B means A is husband of B A × B means A is brother of B From the statement P – Q + R × S, how is Q related to S? Niece Sister Mother None of these Question No.11 Which of the following is not the function of helper T cells They help activate B cells to secrete antibodies and macrophages to destroy inges microbes	Bookmark ☐ 4.00 Bookmark ☐
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If A+B means A is daughter of B, A-B means A is husband of B A × B means A is brother of B From the statement P – Q + R × S, how is Q related to S? Niece Sister Mother None of these Question No.11 Which of the following is not the function of helper T cells They help activate B cells to secrete antibodies and macrophages to destroy inges microbes They help activate cytotoxic T cells to kill infected target cells They recognize and bind extracellular ligands Produce soluble signaling proteins called cytokines, which include the interleukins	Bookmark ☐ 4.00 Bookmark ☐
If A+B means A is daughter of B, A-B means A is husband of B A × B means A is brother of B From the statement P – Q + R × S, how is Q related to S? Niece Sister Mother None of these Question No.11 Which of the following is not the function of helper T cells They help activate B cells to secrete antibodies and macrophages to destroy inges microbes They help activate cytotoxic T cells to kill infected target cells They recognize and bind extracellular ligands	Bookmark ☐ 4.00 Bookmark ☐
If A+B means A is daughter of B, A-B means A is husband of B A × B means A is brother of B From the statement P – Q + R × S, how is Q related to S? ○ Niece ○ Sister ○ Mother ○ None of these Question No.11 Which of the following is not the function of helper T cells ○ They help activate B cells to secrete antibodies and macrophages to destroy inges microbes ○ They help activate cytotoxic T cells to kill infected target cells ○ They recognize and bind extracellular ligands ○ Produce soluble signaling proteins called cytokines, which include the interleukins Question No.12 Addition of water in C-C bond is by the enzyme	Bookmark ☐ 4.00 Bookmark ☐ sted
If A+B means A is daughter of B, A-B means A is husband of B A × B means A is brother of B From the statement P – Q + R × S, how is Q related to S? © Niece © Sister © Mother © None of these Question No.11 Which of the following is not the function of helper T cells © They help activate B cells to secrete antibodies and macrophages to destroy inges microbes © They help activate cytotoxic T cells to kill infected target cells © They recognize and bind extracellular ligands © Produce soluble signaling proteins called cytokines, which include the interleukins Question No.12 Addition of water in C-C bond is by the enzyme © Hydroxylase	Bookmark ☐ 4.00 Bookmark ☐ sted
If A+B means A is daughter of B, A-B means A is husband of B A × B means A is brother of B From the statement P – Q + R × S, how is Q related to S? © Niece © Sister © Mother © None of these Question No.11 Which of the following is not the function of helper T cells © They help activate B cells to secrete antibodies and macrophages to destroy inges microbes © They help activate cytotoxic T cells to kill infected target cells © They recognize and bind extracellular ligands © Produce soluble signaling proteins called cytokines, which include the interleukins Question No.12 Addition of water in C-C bond is by the enzyme © Hydroxylase © Hydrolase	Bookmark ☐ 4.00 Bookmark ☐ sted
If A+B means A is daughter of B, A-B means A is husband of B A × B means A is brother of B From the statement P – Q + R × S, how is Q related to S? © Niece © Sister © Mother © None of these Question No.11 Which of the following is not the function of helper T cells © They help activate B cells to secrete antibodies and macrophages to destroy inges microbes © They help activate cytotoxic T cells to kill infected target cells © They recognize and bind extracellular ligands © Produce soluble signaling proteins called cytokines, which include the interleukins Question No.12 Addition of water in C-C bond is by the enzyme © Hydroxylase	Bookmark ☐ 4.00 Bookmark ☐ sted

Administration of cytochalasin B to actively dividing germ cell culture results in Arrest of both nuclear division and cytokinesis Diplotene arrest Resumption of meiosis Arrest of nuclear division is unaltered whereas cytokinesis is arrested	4.00 Bookmark □
Question No.14 Which one of the following has the largest mitochondrial DNA Higher vertebrates Green algae Plants Fungi	4.00 Bookmark <u></u> □
Conclusion: I. Some tools are pen II. Some pens are books If only conclusion II follows If either I or II follows If only conclusion I follows If only conclusion I follows If only conclusion I follows	4.00 Bookmark ☐
Question No.16 Identification of transcription start site is possible by RNase protection assay Chromatin immunoprecipitation RNA-EMSA DNase foot printing assay	4.00 Bookmark □
Question No.17 Which of the following is NOT a hypothyroid disease Cretinism Grave's disease Goiter Myxedema	4.00 Bookmark ☐
Question No.18 A mutation that gives an altered phenotype only when no wild type version is present is Conditional mutation Recessive mutation Complementation Dominant mutation	4.00 Bookmark □

Question No.19	4.00 Bookmark
In the early stages of cell formation in nature, which one of the following organelles most liken first C Lysosome	ely arose
NucleusMitochondriaPlasma membrane	
Question No.20	4.00
Choose the best antonym of the italicized word. Many snakes are actually <i>innocuous</i> .	Bookmark
© poisonous © ferocious	
୍ର deadly ୍ର harmful	
Question No.21	4.00
	Bookmark
Zinc is a cofactor for © Pyruvate dehydrogenase	
○ Pyruvate carboxylase	
C Alcohol dehydrogenase	
○ KG dehydrogenase	
Question No.22	4.00
Question No.22	4.00 Bookmark □
Question No.22	
Question No.22 A B C D	
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A B C D (1) (2) (3) (4) 0 3 0 1 0 2 0 4	Bookmark □
A B C D (1) (2) (3) (4) (3) (4) (1) (2) (3) (4) (1) (2) (3) (4) (2) (3) (4)	Bookmark ☐ 4.00 Bookmark ☐
A B C D (1) (2) (3) (4) c 3 c 1 c 2 c 4 Question No.23 Choose the best synonym of the italicized word. The prisoners of war signed the document coercion.	Bookmark ☐ 4.00 Bookmark ☐
A B C D (1) (2) (3) (4) (3) (4) (3) (2) (3) (4) Question No.23 Choose the best synonym of the italicized word. The prisoners of war signed the document coercion. © supervision	Bookmark ☐ 4.00 Bookmark ☐
Question No.23 Choose the best synonym of the italicized word. The prisoners of war signed the document coercion. Supervision Security	Bookmark ☐ 4.00 Bookmark ☐
A B C D (1) (2) (3) (4) (3) (4) (3) (2) (3) (4) Question No.23 Choose the best synonym of the italicized word. The prisoners of war signed the document coercion. © supervision	Bookmark ☐ 4.00 Bookmark ☐

Question No.24	4.00
	Bookmark
The word hormone was coined by	
© Starling	
© Berthelot	
© Benting and Best	
○ Frederick Sanger	
Question No.25	4.00
	Bookmark □
Which one of the following is NOT a cellular signal inducing molecule	
O Insulin	
© Calcium	
© Methylated DNA	
○ F-actin	
Question No.26	4.00
	Bookmark
Which of the following sets of hormones are closely related to parental care behavior in n	
 Mammotrophin, oxytocin, somatomammotrophin, vasopressin 	
Oxytocin, somatomammotrophin, mammotrophin, estradiol	
 Mammotrophin, Oxytocin, vasopressin, cortisol 	
 Mammotrophin, oxytocin, vasopressin, estradiol 	
Question No.27	4.00 Bookmark
In statistical analysis Completion as officient is the manus between	DOOKINAI'K
in statistical analyses. Correlation coefficient is the range between	
In statistical analyses, Correlation coefficient is the range between © 0 to +1	
© 0 to +1	
© 0 to +1 © -1 to 0	
© 0 to +1 © -1 to 0 © +1 to +2 © -1 to +1	
© 0 to +1 © -1 to 0 © +1 to +2	4.00
© 0 to +1 © -1 to 0 © +1 to +2 © -1 to +1	4.00 Bookmark
© 0 to +1 © -1 to 0 © +1 to +2 © -1 to +1 Question No.28	
C 0 to +1 C -1 to 0 C +1 to +2 C -1 to +1 Question No.28 Shortest peptide hormone in mammals is	
C 0 to +1 C -1 to 0 C +1 to +2 C -1 to +1 Question No.28 Shortest peptide hormone in mammals is C Thyrotrophin releasing hormome	
C 0 to +1 C -1 to 0 C +1 to +2 C -1 to +1 Question No.28 Shortest peptide hormone in mammals is C Thyrotrophin releasing hormome Vassopressin	
C 0 to +1 C -1 to 0 C +1 to +2 C -1 to +1 Question No.28 Shortest peptide hormone in mammals is C Thyrotrophin releasing hormome Vassopressin Thyroid stimulating hormone C Oxytocin	Bookmark <u></u> □
C 0 to +1 C -1 to 0 C +1 to +2 C -1 to +1 Question No.28 Shortest peptide hormone in mammals is C Thyrotrophin releasing hormome Vassopressin Thyroid stimulating hormone	Bookmark 4.00
C 0 to +1 C -1 to 0 C +1 to +2 C -1 to +1 Question No.28 Shortest peptide hormone in mammals is C Thyrotrophin releasing hormome Vassopressin Thyroid stimulating hormone C Oxytocin	Bookmark <u></u> □
C 0 to +1 C -1 to 0 C +1 to +2 C -1 to +1 Question No.28 Shortest peptide hormone in mammals is C Thyrotrophin releasing hormome Vassopressin Thyroid stimulating hormone Oxytocin Question No.29	Bookmark 4.00
O to +1 O -1 to 0 O +1 to +2 O -1 to +1 Question No.28 Shortest peptide hormone in mammals is O Thyrotrophin releasing hormome O Vassopressin O Thyroid stimulating hormone O Oxytocin Question No.29 Most wide spread form of symbiosis in nature is	Bookmark 4.00
C 0 to +1 C -1 to 0 C +1 to +2 C -1 to +1 Question No.28 Shortest peptide hormone in mammals is C Thyrotrophin releasing hormome Vassopressin Thyroid stimulating hormone C Oxytocin Question No.29 Most wide spread form of symbiosis in nature is C Commensalism	Bookmark 4.00
C 0 to +1 C -1 to 0 C +1 to +2 C -1 to +1 Question No.28 Shortest peptide hormone in mammals is C Thyrotrophin releasing hormome Vassopressin Thyroid stimulating hormone Oxytocin Question No.29 Most wide spread form of symbiosis in nature is C Commensalism Parasitism	Bookmark 4.00
C 0 to +1 C -1 to 0 C +1 to +2 C -1 to +1 Question No.28 Shortest peptide hormone in mammals is C Thyrotrophin releasing hormome Vassopressin Thyroid stimulating hormone Oxytocin Question No.29 Most wide spread form of symbiosis in nature is C Commensalism Parasitism Predation	Bookmark 4.00
C 0 to +1 C -1 to 0 C +1 to +2 C -1 to +1 Question No.28 Shortest peptide hormone in mammals is C Thyrotrophin releasing hormome Vassopressin Thyroid stimulating hormone Oxytocin Question No.29 Most wide spread form of symbiosis in nature is C Commensalism Parasitism Predation	Bookmark 4.00
C 0 to +1 C -1 to 0 C +1 to +2 C -1 to +1 Question No.28 Shortest peptide hormone in mammals is C Thyrotrophin releasing hormome Vassopressin Thyroid stimulating hormone Oxytocin Question No.29 Most wide spread form of symbiosis in nature is C Commensalism Parasitism Predation	Bookmark 4.00

Question No.30 4.00 Bookmark □
Oubain is:
O Inhibitor of acyl carrier protein
Inhibitor of protein degradation
Inhibitor of lipid absorptionInhibitor of carbohydrate absorption
Unitable of Carbonydrate absorption
Question No.31 4.00
Bookmark ☐ Many marine birds often drink seawater, yet maintain their internal osmolarity at a constant level that
is hypoosmotic to seawater. Which of the following physiological strategies best explains how the birds could maintain their tissue osmolarity?
© Excrete both salts and nitrogenous wastes through specialized nasal glands
© Excrete salts through specialized salt exchange glands and excrete less urine
Absorption of salts from the environment through salt exchange glands and produce more
concentrated urine
 Absorption of water from the environment through specialized salt-exchange glands and produce more dilute urine.
Question No.32 4.00
Bookmark
Metabolism of one of the following amino acids produces acids
○ Glutamate
○ Aspartate
○ Alanine
○ Histidine
Question No.33
Bookmark
Study the following information carefully and answer the question below it
(i) There is a group of five persons- A, B, C, D and E
(ii) One of them is manual scavenger, one is sweeper, one is watchman, one is human scarecrow and one is grave-digger
(iii) Three of them – A, C and grave-digger prefer tea to coffee and two of them – B and the watchman
prefer coffee to tea
(iv) The human scarecrow and D and A are friends to one another but two of these prefer coffee to tea.
(v) The manual scavenger is C's brother
Who is a manual scavenger?
O B
O A
O D
O C
Question No.34 4.00
Bookmark □
Sodium azide inhibits electron transport chain by acting on
© Complex-IV
© Complex-III
Complex-II
○ Complex-I

Question No.35	4.00 Bookmark □
Vectors widely used for genetic engineering in plants are	DOOKIIIAIK
© EMBL vectors	
C Ti vectors	
C Phagemids	
© Cosmids	
Question No.36	4.00
	Bookmark □
Causes of homocystinuria	
© Deficiency of Vit. B12	
© Deficiency of Folic acid	
© Deficiency of Vit. B6	
C Deficiency of pantothenic acid	
Question No.37	4.00
	Bookmark □
One of the following enzyme is absent in humans	
○ Lipase	
○ Cellulase	
○ Carboxypeptidase	
○ Pepsin	
Overtion No 20	4.00
Question No.38	4.00 Bookmark
Choose the correct meaning of the italicized idiom.	Bookmank
You cannot throw <i>dust into my eyes.</i>	
○ Cheat me	
C Abuse was	
C Abuse me	
C Hurt me	
Question No.39	4.00
Question No.00	Bookmark □
Choose the best antonym of the italicized word.	
There are four chapters that are extraneous to the structure of the book.	
○ needful	
○ relevant	
ଠ integral	
○ important	
Question No.40	4.00
	Bookmark □
Alpha Linolenic acid is a	
C w-6 polyunsaturated fatty acid	
C w-3 polyunsaturated fatty acid	
○ w-9 polyunsaturated fatty acid	
○ w-12 polyunsaturated fatty acid	

Question No.41	4.00
Which of the following is a reliable technique to identify RNA-protein interactions	Bookmark □
RNase protection assay	
C Chromatin immunoprecipitation	
© RNase foot printing	
© RNA-EMSA	
	100
Question No.42	4.00 Bookmark
Which one of the following is NOT a transfection technique	
C Liposome mediate delivery	
© Microinjection	
© Electroporation	
 Site directed mutagenesis 	
Question No.43	4.00
	Bookmark □
Statement: "A Car is required on rent"-An Advertisement	
Assumptions: I. All types of Vehicles are available on Rent	
II. People will respond to the advertisements	
 If only assumption II is implicit 	
○ If only assumption I is implicit	
C If neither I nor II is implicit	
○ If both I and II are implicit	
Question No.44	4.00
	Bookmark □
The two principal contractile proteins present in skeletal muscle are	
O Actin and myosin	
Actin and tropomyosinMyosin and tropomyosin	
Troponin and tropomyosin	
C Tropoliin and tropolityosiii	
Overther No. 45	
Question No.45	4.00 Bookmark
Severe anemia at birth is a feature of	
○ Sickle cell disease	
○ Beta-thalassemia	
○ Alpha-thalassemia	
 Hereditary persistence of fetal hemoglobin 	
Question No.46	4.00
	Bookmark □
Experiments to prove the evolution of life were first performed by	
C Haldana and Lamarak	
 Haldane and Lamarck 	
C. Hrey and Miller	
Urey and MillerWatson and Crick	

Choose the correct meaning of the italicized idiom. Those who work by fits and start seldom show good results. Irregularly Regularly Rarely	.00
One of the following can be detected by using an enzyme assay Cystic fibrosis Fragile X syndrome Tay-Sachs disease Coulocutaneous albinism	.00
Question No.49 Bookmark The study of senescence and senility is Gerontology Dendrology Psychology Palentology	.00
Question No.50 Bookmark Which of the following is not a bacterial disease? Tonsilitis Lyme disease Mononucleosis Syphilis	.00
Question No.51 Bookmark The most variable period of the cell cycle is	.00

One of the following is NOT a stimuli for secretion of gastric inhibitory peptide C Acid	4.00 kmark □
C Acid	
© Protein	
© Carbohydrate	
O Fat	
Ougstion No 52	4.00
Question No.53 Bool	4.00 kmark □
With which of the following relatives is an individual most likely to share a common HLA phenotype	е
○ Mother ○ Son	
© Sister	
○ Father	
Question No.54	4.00
	kmark □
The starting and ending sequence generally found in an intron is	
O GU; AG	
୍ଦ GA; CG ୍ଦ AG; GU	
O CG; GA	
Question No.55	4.00 kmark □
An important cause for polyteny in somatic cells of few organisms	
© Sex chromosome amplification	
Supercoiling of chromatin Chromasome replication without any cell division.	
Chromosome replication without any cell divisionChromosome recombination	
Question No.56	4.00 kmark □
Most genes are transcribed into	KIIIQIK [_
○ rRNAs	
○ snRNAs	
G 4 DNA -	
○ t-RNAs ○ mRNAs	
C t-RNAs C mRNAs	
© mRNAs Question No.57	4.00 kmark □
© mRNAs Question No.57	4.00 kmark □
Question No.57 Question No.57 Bool Gene for folic acid absorption is present in on Chromosome V	
Question No.57 Gene for folic acid absorption is present in on Chromosome V Chromosome XXI	
Question No.57 Bool Gene for folic acid absorption is present in on Chromosome V Chromosome XXI Chromosome X	
Question No.57 Gene for folic acid absorption is present in on Chromosome V Chromosome XXI	

	Bookmark □
Which one of the following is the odd one out?	
○ In situ hybrididization	
C Chromatin immuno precipitation	
Chromosome painting	
Character in city by by definition	
© Fluorescence in situ hybridization	
Question No.59	4.00
	Bookmark
Which cellular organelles fits well for symbiont hypothesis	
O Nucleus	
© Lysosomes	
© Peroxisomes	
○ Mitochondria	
Question No.60	4.00
	Bookmark □
Which of the following does not contain keratin	
○ Spinach	
© Potato	
○ Carrot	
○ tomato	
Question No.61	4.00
	4.00 Bookmark
Glutellin, zeins and phaseolins are	
Glutellin, zeins and phaseolins are © Storage lipids	
Glutellin, zeins and phaseolins are Storage lipids Storage carbohydrages	
Glutellin, zeins and phaseolins are © Storage lipids	
Glutellin, zeins and phaseolins are Storage lipids Storage carbohydrages	
Glutellin, zeins and phaseolins are Storage lipids Storage carbohydrages Storage proteins Storage micronutrients	Bookmark
Glutellin, zeins and phaseolins are Storage lipids Storage carbohydrages Storage proteins	Bookmark 4.00
Glutellin, zeins and phaseolins are Storage lipids Storage carbohydrages Storage proteins Storage micronutrients Question No.62	Bookmark 4.00 Bookmark
Glutellin, zeins and phaseolins are Storage lipids Storage carbohydrages Storage proteins Storage micronutrients	Bookmark 4.00 Bookmark
Glutellin, zeins and phaseolins are Storage lipids Storage carbohydrages Storage proteins Storage micronutrients Question No.62 If 5 men or 8 boys can do a work in 84 days. In how many days can 10 men and 5 boys can	Bookmark 4.00 Bookmark
Glutellin, zeins and phaseolins are Storage lipids Storage carbohydrages Storage proteins Storage micronutrients Question No.62 If 5 men or 8 boys can do a work in 84 days. In how many days can 10 men and 5 boys can same work? Storage micronutrients	Bookmark 4.00 Bookmark
Glutellin, zeins and phaseolins are Storage lipids Storage carbohydrages Storage proteins Storage micronutrients Question No.62 If 5 men or 8 boys can do a work in 84 days. In how many days can 10 men and 5 boys can same work? 25 28	Bookmark 4.00 Bookmark
Glutellin, zeins and phaseolins are C Storage lipids Storage carbohydrages Storage proteins Storage micronutrients Question No.62 If 5 men or 8 boys can do a work in 84 days. In how many days can 10 men and 5 boys can same work? C 25 C 28 C 32	Bookmark 4.00 Bookmark
Glutellin, zeins and phaseolins are Storage lipids Storage carbohydrages Storage proteins Storage micronutrients Question No.62 If 5 men or 8 boys can do a work in 84 days. In how many days can 10 men and 5 boys can same work? 25 28	Bookmark 4.00 Bookmark
Glutellin, zeins and phaseolins are Storage lipids Storage carbohydrages Storage proteins Storage micronutrients Question No.62 If 5 men or 8 boys can do a work in 84 days. In how many days can 10 men and 5 boys can same work? 25 28 32 35	Bookmark 4.00 Bookmark
Glutellin, zeins and phaseolins are C Storage lipids Storage carbohydrages Storage proteins Storage micronutrients Question No.62 If 5 men or 8 boys can do a work in 84 days. In how many days can 10 men and 5 boys can same work? C 25 C 28 C 32	4.00 Bookmark □ do the
Glutellin, zeins and phaseolins are Storage lipids Storage carbohydrages Storage proteins Storage micronutrients Question No.62 If 5 men or 8 boys can do a work in 84 days. In how many days can 10 men and 5 boys can same work? 25 28 32 35	4.00 Bookmark □ do the
Glutellin, zeins and phaseolins are Storage lipids Storage carbohydrages Storage proteins Storage micronutrients Question No.62 If 5 men or 8 boys can do a work in 84 days. In how many days can 10 men and 5 boys can same work? 25 28 32 35	4.00 Bookmark □ do the
Glutellin, zeins and phaseolins are Storage lipids Storage carbohydrages Storage proteins Storage micronutrients Question No.62 If 5 men or 8 boys can do a work in 84 days. In how many days can 10 men and 5 boys can same work? 25 28 32 32 35 Question No.63 Inside the cochlea, the tectorial membrane is a part of Reissner's membrane	4.00 Bookmark □ do the
Glutellin, zeins and phaseolins are Storage lipids Storage carbohydrages Storage proteins Storage micronutrients Question No.62 If 5 men or 8 boys can do a work in 84 days. In how many days can 10 men and 5 boys can same work? 25 28 32 32 35 Question No.63 Inside the cochlea, the tectorial membrane is a part of Reissner's membrane Scala media	4.00 Bookmark □ do the
Glutellin, zeins and phaseolins are Storage lipids Storage carbohydrages Storage proteins Storage micronutrients Question No.62 If 5 men or 8 boys can do a work in 84 days. In how many days can 10 men and 5 boys can same work? 25 28 32 32 35 Question No.63 Inside the cochlea, the tectorial membrane is a part of Reissner's membrane Scala media Scala typani	4.00 Bookmark □ do the
Glutellin, zeins and phaseolins are Storage lipids Storage carbohydrages Storage proteins Storage micronutrients Question No.62 If 5 men or 8 boys can do a work in 84 days. In how many days can 10 men and 5 boys can same work? 25 28 32 32 35 Question No.63 Inside the cochlea, the tectorial membrane is a part of Reissner's membrane Scala media	4.00 Bookmark do the

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Question No.64	4.00
When a big fish eats a small fish that eats water fleas supported by phytoplantons, in	Bookmark ☐ the ecological
point of view, the water fleas can be considered as	
C Primary consumers	
Primary consumersProducers	
© Secondary consumers	
Question No.65	4.00 Bookmark
Southwestern blotting is used for determining C Length of DNA	
Molecular weight of unknown protein factor	
○ Intron-Exon boundaries	
Cross linking of cysteine residues	
Question No.66	4.00
Question 140.00	Bookmark □
The predominant iso enzyme of LDH in cardiac muscle is	
O LD-5	
O LD-3	
O LD-1 O LD-2	
0 LD-2	
Question No.67	4.00
Study the following information carefully and answer the question below it:	Bookmark <u></u> □
Aasha, Bhuvnesh, Charan, Danesh, Ekta, Farhan, Ganesh and Himesh are sitting aro facing the centre. Aasha sits fourth to the right of Himesh while second to the left of Fanot the neighbour of Farhan and Bhuvnesh. Danesh sits third to the right of Charan. H next to Ganesh.	arhan. Charan is
Who among the following sits between Ganesh and Danesh?	
○ Aasha ○ Bhuvnesh	
© Charan	
© Ekta	
Question No.68	4.00
	Bookmark 🖂
The protein coloring dye coomassie brilliant blue:	
© Emits fluorescence when interacts with multiple regions of the protein	
 Interacts with the negative carboxyl groups in the proteins 	
C Interacts with the positive amine groups in the anatoine	
 Interacts with the positive amine groups in the proteins Forms hydrogen bonding with the proteins 	

Question No.69	4.00
	Bookmark □
The shape of pyramid biomass in pond ecosystem is	
○ Octagonal	
○ Upright	
○ Spindle	
○ Inverted	
Question No.70	4.00 Bookmark
The process by which white light is resolved into seven colors is	BOOKIIIAIK [
© Diffraction	
© Absorptioin	
© Reflection	
© Refraction	
Retraction	
Question No.71	4.00
	Bookmark □
The allosteric inhibitor of an enzyme	_
 Participates in feedback regulation 	
C Causes the enzyme to work faster	
© Binds to the active site	
C Denatures the enzyme	
Question No.72	4.00
	Bookmark 🖂
First life on earth was originated from	
○ Cyanobacteria	
C Chemoheterotrophs	
© Protozoa	
C Autotrophs	
O (C No. 70	4.00
Question No.73	4.00 Bookmark □
Abzyme is an	DOOKIIIAIK [_
○ Iso- Enzyme	
© Abnormal Enzyme	
C Allosteric Enzyme	
Antibody with catalytic activity	

Question No.74	4.00
Based on the information given answer the following question. 1. In a family of six persons, there are people from three generations. Each has separate pand they like different colours. There are two couples. 2. Shyam is an Engineer and his wife is not a doctor and she does not like Red colour. 3. Chartered Accountant likes green colour and his wife is a teacher. 4. Manisha is the mother-in-law of Sunita and she likes orange colour. 5. Vimal is the grand father of Tarun and tarun is the Principal and likes black colour. 6. Nyna is the grand daughter of Manisha and she likes blue colour. Nyna's Mother likes with Which of the following is the correct pair of two couples? Cannot be determined Tarun-Nyna, Shyam-Sunita Shyam-Sunita, Vimal-Manisha Shyam-Manisha, Vimal-Sunita	
Question No.75	4.00
The hormone, LEPTIN is secreted by Adrenal Pancreas Adipose tissue Thymus	Bookmark
Question No.76	4.00
Which one of the following set of organelles can be separated by performing low speed ce C Lysososome and endosomes Golgi complex and endoplasmic reticulum DNA and mRNA Nuclei and secretory vesicles	Bookmark ☐ entrifugation
Question No.77	4.00
Choose the missing term : AZ, GT, MN, ?, YB C KE SX SH TS	Bookmark ∏
Question No.78	4.00 Bookmark
The INCORRECT statement about genetic drift is Significant only in large populations Random change in allele frequency in a population A mechanism for the evolution of new species Founder effect is a special case	DOURINATE

Question No.79	4.00
Hexokinase is	Bookmark □
© Oxidase	
C Oxide reductase	
© Reductase	
© Transferase	
- Harbierase	
Question No.80	4.00
	Bookmark □
One of the following DOES NOT increase the levels of antidiuretic hormone	
C Chloride	
O Morphine	
© Nicotine	
C Cyclophosphamide	
Question No.81	4.00
	Bookmark □
If the genotypes AA, Aa and aa have frequencies 0.5, 0.25 and 0.25 respectively, then the	frequency
of A and a alleles will be	
© 0.5 and 0.25	
© 0.725 and 0.275	
© 0.75 and 0.25 © 0.625 and 0.375	
0.025 and 0.575	
Question No.82	4.00
	Bookmark
Autophagy and crinophagy can be related to the efficient function of	
© Peroxisomes	
C Mitochondria	
C Lysosomes	
© Glycosomes	
Question No.83	4.00
	Bookmark
Since the of the motor car, road accidents have increased dramatically.	
© inauguration	
© inception	
o initiation	
C advent	
Question No.84	4.00
	Bookmark □
Repeat core sequences consisting of 2, 3 or 4 base pairs are called	
○ Satellites	
○ Single nucleotide polymorphisms	
○ Microsatellites	
MicrosatellitesMinisatellites	

Question No.85	4.00
The combination of main supporting enzyme is	Bookmark
© Co enzyme	
○ Apo enzyme	
C Holo enzyme	
Constructive enzyme	
Question No.86	4.00
	Bookmark □
One of the following is a component of the mitochondrial electron chain	
C Isocitrate dehydrogenase	
 ○ Glutamate dehydrogenase ○ Succinate dehydrogenase 	
© Pyruvate dehydrogenase	
- 1 yravate denyaregenase	
Question No.87	4.00 Bookmark
Hypophysectomy refers to	DOOKINAIK [
Removal of pituitary gland	
© Removal of testis	
 Removal of hypothalamus 	
C Removal of pancreas	
Question No.88	4.00
Vitamin K is	Bookmark □
© Oxidation	
© Carboxylation	
© Reduction	
C Hydroxylation	
Question No.89	4.00
	Bookmark □
An autosomal recessive disorder that leads to decreased sodium, chloride and potassium	
reabsorption in the Loop of Henle is © Fanconi's syndrome	
© Liddle's syndrome	
© Bartler's syndrome	
© Gitelman's syndrome	
Question No.90	4.00 Bookmark
The most effective detection chemistry employed for real time gene expression analyses is	_00\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
C Hybridization probes	
C Hydrolysis probes	
Molecular beacons	
C DNA hybridization probes	

Question No.91	4.00
T1 1616 61 M.	Bookmark □
The half-life of IgM in serum is	
C 21 days	
○ 10 days	
© 2 days	
© 6 days	
Overtion No 02	4.00
Question No.92	4.00 Bookmark □
Contrastness is produced by a gradient of refractive index across the specimen in	DOOKIIIAI K
© Polarization microscope	
© Phase contrast microscope	
© Bright field microscope	
C Differential interference contrast microscope	
2 Dinordial interiores contract misroscope	
Question No.93	4.00
	Bookmark □
Vitamins that play a key role in TCA cycle are	
C Riboflavin, Thiamine, Niacin, Pantothenic acid	
 Folic acid, Riboflavin, Biotin, Cobalamin 	
C Pyridoxine, Folic acid, Cobalamin	
 Pantothenic acid, Biotin, Cobalamin, Folic acid 	
Question No.94	4.00
	Bookmark
Which number replaces the question mark?	
5 6 6	
4 (13) 7 9 (10) 4 5 (2) 6	
2 1 8 1 3 2	
O 10	
O 12	
O 9	
O 11	
Question No.95	4.00
Institute DOES NOT regulate one of the following in the elected gaves	Bookmark 🖂
Insulin DOES NOT regulate one of the following in the skeletal muscle © Glucokinase	
○ Glycogen synthase	
© Glycogen phosphorylase	
C Phosphoprotein phosphatase	
Question No.96	4.00
	Bookmark □
Which one of the following instruments is NOT required for localizing mRNA transcripts	
C Ultracentrifuge	
C Hybridization chamber	
C Thermal cycler	
○ Microscope	

Question No.97	4.00 Bookmark □
In humans, majority of the prostaglandins are formed from © Palmitic acid	Боок тагк <u> </u>
C Linoleic acid	
C Stearic acid	
© Arachidonic acid	
C Arabilidofilo dold	
Question No.98	4.00
Genome markers :	Bookmark
© Must occur as multiple alleles	
© Can be any unique DNA sequence	
© Must be repeat DNA sequences	
C Used only in genetic maps	
Question No.99	4.00
Day average test is faulter dispussion of	Bookmark
Pap smear test is for the diagnosis of © Bacterial infections	
© Viral infections	
C Hematological disorders	
C Cancerous or pre cancerous cells	
Question No.100	4.00
Kin a contain language CDACD is saided as DMA/AW which would be saided as CD	Bookmark
If in a certain language, GRASP is coded as BMVNK, which word would be coded as CR ○ BQZMD	AINE !
C HWFSJ	
© FUDQH	
C XMVIZ	
~ / XXXX	