Examination: Ph.D. Biochemistry and Molecular Biology	
SECTION 1 - SECTION 1	
Question No.1	
SDS in PAGE is used for	
 Solubilising protein 	
 Give uniform charge density 	
 Decrease surface tension 	
 Stabilizing protein 	
Question No.2	
AH 5H 5H :	
All of the following statements about Type I topoisomerase are true except	
 Topo I is essential for viability in E. coli 	
 Topo I removes DNA supercoils in an ATP-dependent reacti 	on
 Topo I from eukaryotic cells can remove both positive and negative supercoils 	
 Topo I from E. coli can remove only negative supercoils 	
Question No.3	
It takes longer time for sex hormones and other steroid hormones to produce their effect than non-steroid hormones because	
 Steroids must relay their messenger by receptor 	
 Steroids must be carried to long distance 	
 Steroid are bigger, slower molecules 	
 Steroids cause target cells to make new proteins 	
Question No.4	
Which of the following term is associated with a cell without cell wall	
Protoplast	
Symplast	
Chloroplast	
Apoplast	
Question No.5	
Specificity of an enzyme depends upon	
Specificity of an enzyme depends upon ○ K _m	
○ ivm ○ active site	
addive Site	

linear sequenceturn over number
Question No.6
Which of the following peptides is made by non ribosomal synthesis Glutathione Insulin
○ Beta MSH○ Enkaphlin
Question No.7
The type of rRNA that is involved in the formation of 30S ribosome in prokaryotes 18S rRNA
○ 23S rRNA
○ 16S rRNA
Question No.8
The chemical structure of 5' cap of Eukaryotic mRNA is
 5-hydroxy guanosine triphosphate
 5,7- dimethyl guanosine triphosphate
5- methyl guanosine triphosphate
7- methyl guanosine triphosphate
Question No.9
α-Amanitin is a fungal toxin which inhibits eukaryotic RNA polymerases. The three eukaryotic RNA polymerases show differential sensitivity to this toxin. Which one of the following order (higher to lower) is correct in respect of sensitivity towards α- amanitin? RNA POL III > RNA POL II > RNA POL I RNA POL I > RNA POL III > RNA POL II RNA POL II > RNA POL III > RNA POL II RNA POL II > RNA POL III > RNA POL III
Question No.10
Golden rice is a genetically modified crop plant where the incorporated genes are meant for biosynthesis of vitamin C

│	
vitamin B	
Beta-carotene	
Question No.11	_
Which of the following classical transcription factors binds first to TATA box?	\
○ TF IIC	
○ TF IIB	
○ TF IIA	
○ TF IID	
Question No.12	
Which one of the following types of particles is the MOST highly penetrating to biological tissues? positrons	
alpha particles	
beta particles	
neutrons	
Question No.13	1
Question 140.10	
Lamp brush chromosomes are found in	
Lamp brush chromosomes are found in Diplotene stage of meosis II	
Lamp brush chromosomes are found in Diplotene stage of meosis II Leptotene stage of meosis I	
Lamp brush chromosomes are found in Diplotene stage of meosis I Leptotene stage of meosis I Diplotene stage of meosis I	
Lamp brush chromosomes are found in Diplotene stage of meosis II Leptotene stage of meosis I	
Lamp brush chromosomes are found in Diplotene stage of meosis I Leptotene stage of meosis I Diplotene stage of meosis I	
Lamp brush chromosomes are found in Diplotene stage of meosis II Leptotene stage of meosis I Diplotene stage of meosis I Zygotene stage of meosis II	
Lamp brush chromosomes are found in Diplotene stage of meosis II Leptotene stage of meosis I Diplotene stage of meosis I Zygotene stage of meosis II Question No.14 Which of the following are NOT transcribed by RNA polymerase II?	
Lamp brush chromosomes are found in Diplotene stage of meosis II Leptotene stage of meosis I Diplotene stage of meosis I Zygotene stage of meosis II Question No.14 Which of the following are NOT transcribed by RNA polymerase II? miRNA and snoRNA	
Lamp brush chromosomes are found in Diplotene stage of meosis II Leptotene stage of meosis I Diplotene stage of meosis I Zygotene stage of meosis II Question No.14 Which of the following are NOT transcribed by RNA polymerase II? miRNA and snoRNA miRNA and some snRNA	
Lamp brush chromosomes are found in Diplotene stage of meosis II Leptotene stage of meosis I Diplotene stage of meosis I Zygotene stage of meosis II Question No.14 Which of the following are NOT transcribed by RNA polymerase II? miRNA and snoRNA miRNA and some snRNA tRNA and 5S rRNA	
Lamp brush chromosomes are found in Diplotene stage of meosis II Leptotene stage of meosis I Diplotene stage of meosis I Zygotene stage of meosis II Question No.14 Which of the following are NOT transcribed by RNA polymerase II? miRNA and snoRNA miRNA and some snRNA tRNA and 5S rRNA mRNA and snoRNA Question No.15	
Lamp brush chromosomes are found in Diplotene stage of meosis II Leptotene stage of meosis I Diplotene stage of meosis I Zygotene stage of meosis II Question No.14 Which of the following are NOT transcribed by RNA polymerase II? miRNA and snoRNA miRNA and some snRNA tRNA and 5S rRNA mRNA and snoRNA	
Lamp brush chromosomes are found in Diplotene stage of meosis II Leptotene stage of meosis I Diplotene stage of meosis I Zygotene stage of meosis II Question No.14 Which of the following are NOT transcribed by RNA polymerase II? miRNA and snoRNA miRNA and some snRNA tRNA and 5S rRNA mRNA and 5S rRNA mRNA and snoRNA Question No.15 Acrosome present on the sperm head is derived from Nucleus	
Lamp brush chromosomes are found in Diplotene stage of meosis II Leptotene stage of meosis I Diplotene stage of meosis I Zygotene stage of meosis II Question No.14 Which of the following are NOT transcribed by RNA polymerase II? miRNA and snoRNA miRNA and some snRNA tRNA and 5S rRNA mRNA and snoRNA TRNA and snoRNA MRNA and snoRNA Acrosome present on the sperm head is derived from	

_									
	n/	η.	tへ		h	วท	ี	rı	1
	ıν	11	w	U	ı١٧	JU	u		O

Question No.16

The intestinal absorption of glucose is impaired by the use of ouabain, an inhibitor of Na⁺/K⁺ ATPase. Indicate the correct explanation.

- The inhibitor has blocked the transport of Na⁺ from epithelial cells to interstitial space
- The inhibitor has blocked the transport of Na⁺ from epithelial cells to intestinal lumen
- The inhibitor has blocked the transport of Na⁺ from interstitial space to epithelial cells
- The inhibitor has blocked the transport of Na⁺ from intestinal lumen to epithelial cells

Question No.17

Which of the following statements best describes the mechanism of action of sex hormones

- They bind specific membrane receptors
- They enhance transcription when bound to receptors
- They cause release of second messenger from the cell membrane
- They interact with DNA directly

Question No.18

In Recombinant DNA technology, Somatostatin hormone is expressed as fusion protein along with a structural protein where the two proteins are linked by the amino acid methionine. Somatostatin hormone is released from the fusion protein by treating with

- β-Mercaptoethanol
- Performic acid
- Cyanogen bromide.
- Proteolytic cleavage

Question No.19

Which experiment proved that the two strands in DNA are anti parallel?

- X-Ray crystallography
- Okazaki fragments
- Nearest neighbour base frequency analysis
- Messelson and Stahl Experiment

Question No.20
During generation of an action potential, depolarization is due to Na ⁺ influx
○ K ⁺ influx
○ K ⁺ efflux
○ Na ⁺ efflux
THE CHIEF
Question No.21
As blood flows from the aorta to the capillaries of the gastrocnemius, its velocity will
Not related
Remains the same
O Decrease
Increase
Question No.22
The respiratory control centers are located in
o brain
o heart
lungs
 Diaphragm
Question No.23
Heart is recognised as an endocrine organ. The hormone produced by heart is
○ ANF
○ CREB
○ EGF
Erythropoietin
Question No.24
If the DNA content of a diploid cell in G1 phase is x, then the DNA content of the same cell at metaphase of meiosis I would be 0.25x
X X
0.5x
○ 2x

Question No.25	
In some species, one female will reproduce in a group where the females have suppressed reproduction and assist the reproduction female. This is an example of Group selection	
Reciprocal altruism	
○ Kin selection	
 Sexual selection 	
Question No.26	
The C-value denotes the total number of DNA in a Diploid	
 Aneuploid 	
Polyploid	
○ Haploid	
Question No.27	
A copper metalloprotein was found to contain 0.127% by weigh (atomic weight of Cu = 63.55). The minimum molecular weight protein is	
○ 100 KD	
○ 50 KD	
○ 40 KD	
○ 63.5 KD	
Question No.28	
Action potentials are conducted more rapidly in	
Large diameter axons than small diameter axons	
 Small diameter axons than large diameter axons 	
 Axons that lack a wrapping of Schwann cells 	
 Unmyelinated axons than myelinatedacons 	
Question No.29	
The molarity of 0.2 N H SO is	
The molarity of 0.2 N H ₂ SO ₄ is ○ 0.2 M	
○ 0.2 M	
○ 0.1 M	
- 0.00 IVI	

0.4 M

Question No.30 The following pairs are in solution. Which of the following can you separate by low speed centrifugation? Plasma membrane and Golgi membrane Nuclei and microsomes 80S Ribosome and 70S ribosome Plasmid DNA and mRNA **Question No.31** The DNA sequence of representative telomeric repeats in Tetrahymena 5' TTTGGG 3' 5' TTAGGG 3' 5' TTGGGG 3' 5' TTTAGG 3' **Question No.32** Somatic mutation of immunoglobulin genes accounts for Affinity maturation Allelic exclusion

- Class switching from IgM to IgG
- Codominant expression

Question No.33

The radiation used to determine vibration spectra of molecules is

- Infra red
- Radiofrequency
- UV visible
- X-ray

Question No.34

The following statements about boron in plant nutrition are true, EXCEPT

- Involved in sugar transport
- Oppose the functions of calcium
- Functions of boron interrelate with those of nitrogen
- Related to cell wall strength

Question No.35

Swi/SNF complex is involved in

 Transcription factor binding 	
 Heterochromatinization 	
Chromatin remodelling	
Histone modification	
Question No.36	
Which of the following reaction is accompanied by heat, redness,	
swelling and pain?	
Inflammation	
B-cell mediated immune response	
Humoral response	
Complement cascade	
Question No.37	
One of the following class of MHC genes encode glycoproteins	
expressed on the surface of nearly all nucleated cells	
Class III	
Class II	
Class I	
Class IV	
Question No.38	
Phenomenon of 'Industrial melanism' demonstrates	
│ Batsean mimicry	
induced mutation	
natural selection	
reproductive islolation	
Question No.39	
Blocking action of enzyme through blocking its active site is	
allosteric inhibition	
competitive inhibition	
competitive inhibitionnon-competitive inhibition	
ocompetitive inhibition	
competitive inhibitionnon-competitive inhibition	
competitive inhibition non-competitive inhibition feedback inhibition Question No.40	
competitive inhibition non-competitive inhibition feedback inhibition	-

MacrophagesErythrocytes
Question No.41
The energy of activation of a reaction can be reduced by Removing the products Adding a catalyst Reducing the temperature Adding more reactants
Question No.42
Which part of the neuron receives message from other neurons? Axon Myelin sheath Schwann cells Dendrites
Question No.43
Which of the cyclins have essential functions in S-phase of cell cycle? A-type B-type D-type CDK
Question No.44
In Southern blotting probe is can be used to identify DNA sequence Glycoprotein RNA sequence Protein sequence
Question No.45
How does oil immersion lens enhance the power of resolution of a microscope? preventing direct light rays from reaching the eyepiece lens system reducing the spherical aberrations of lens systems increasing the numerical aperture of the objective

 decreasing the chromatic aberrations of lens systems
Question No.46
Biological Nitrogen Fixation (BNF) occurs when atmospheric nitrogen is converted to ammonia by an enzyme called
 glutamate synthase
nitrogenase
ATPase
ammonia synthase
Question No.47
Which of the following statements about transgenic plants is true? All transgenic plants have crown galls
 Transgenic plants require nopaline for their survival
 The Ti plasmid only inserts at one place in the plant chromosomal DNA
 T-DNA is transferred to plant cells upon infection with Agrobacterium tumefaciens
Question No.48
A good way to increase total proteome penetration by gel-free LC-
MS/MS methods is to
 Use two, orthogonal types of chromatography
 Enrich for phosphopeptides only
 Analyze whole proteins
Label the proteins with a chemical tag
Question No.49
Conversion of nitrogen to ammonia or nitrogenous compounds is termed as
Nitrification
Nitrogen assimilation
Denitrification
Nitrogen fixation
Question No.50
A tumour in an endocrine gland caused aperson to have weakened bones and unusual high levels of blood calcium. Which of the following was affected? Pancreas

Anterior Pitutary
 Parathyroid glands
 Adrenal glands
Question No.51
E.coli cells were grown in ¹⁴ N-enriched medium for several generations
and then switched to a medium enriched in ¹⁵ N and grown for 3
generations. What will be the proportion of ¹⁴ N-labeled (light) DNA
strands to ¹⁵ N-labeled (Heavy) DNA strands?
L:H in the ratio 1:1
L:H in the ratio 1:3
L:H in the ratio 3:1
Question No.52
The frequency of allele 'A' and 'a' in a penulation of Hardy 'Mainhard
The frequency of allele 'A' and 'a' in a population at Hardy-Weinberg equilibrium are 0.7 and 0.3 respectively. In a random sample of 250
individuals taken from the population, how many individuals will be
heterozygous?
10521
81145
143 112
112
Question No.53
The acidic ceramide-oligosaccharides are
gangliosides
globosides
sulphatides
cerebrosides
Question No.54
The bead like unit of chromatin structure is
Chromatid
Nucleosome
Solenoid
Scaffold
Question No.55

Abortive cycling is done by DNA Pol III	
Topoisomerase II	
ribosome	
RNA pol II	
TWV por II	
Question No.56	
Which of the following is noted in Cushing's syndrome	
 Decreased production of norepinephrine 	
 Decreased production if epinephrine 	
 Excessive production of cortisol 	
 Excessive production of vasopressin 	
Question No.57	
Which of the following enzyme is inhibited by mercury?	
Ribonucleases	
Cysteine proteases	
Metalloproteases	
Serine proteases	
Question No.58	
Question No.58 The transfer of mobile genetic elements is mediated by Ribozymes and abzymes	
The transfer of mobile genetic elements is mediated by	
The transfer of mobile genetic elements is mediated by Ribozymes and abzymes	
The transfer of mobile genetic elements is mediated by Ribozymes and abzymes DNA polymerase and ligase enzymes	
The transfer of mobile genetic elements is mediated by Ribozymes and abzymes DNA polymerase and ligase enzymes Transposae enzyme DNAase and ligase enzymes	
The transfer of mobile genetic elements is mediated by Ribozymes and abzymes DNA polymerase and ligase enzymes Transposae enzyme	
The transfer of mobile genetic elements is mediated by Ribozymes and abzymes DNA polymerase and ligase enzymes Transposae enzyme DNAase and ligase enzymes	
The transfer of mobile genetic elements is mediated by Ribozymes and abzymes DNA polymerase and ligase enzymes Transposae enzyme DNAase and ligase enzymes Question No.59	
The transfer of mobile genetic elements is mediated by Ribozymes and abzymes DNA polymerase and ligase enzymes Transposae enzyme DNAase and ligase enzymes Question No.59 Gas evolved during photo respiration	
The transfer of mobile genetic elements is mediated by Ribozymes and abzymes DNA polymerase and ligase enzymes Transposae enzyme DNAase and ligase enzymes Question No.59 Gas evolved during photo respiration No gas is evolved	
The transfer of mobile genetic elements is mediated by Ribozymes and abzymes DNA polymerase and ligase enzymes Transposae enzyme DNAase and ligase enzymes Question No.59 Gas evolved during photo respiration No gas is evolved N ₂	
The transfer of mobile genetic elements is mediated by Ribozymes and abzymes DNA polymerase and ligase enzymes Transposae enzyme DNAase and ligase enzymes Question No.59 Gas evolved during photo respiration No gas is evolved N ₂ O ₂ CO ₂	
The transfer of mobile genetic elements is mediated by Ribozymes and abzymes DNA polymerase and ligase enzymes Transposae enzyme DNAase and ligase enzymes Question No.59 Gas evolved during photo respiration No gas is evolved N ₂ O ₂	
The transfer of mobile genetic elements is mediated by Ribozymes and abzymes DNA polymerase and ligase enzymes Transposae enzyme DNAase and ligase enzymes Question No.59 Gas evolved during photo respiration No gas is evolved N ₂ O ₂ CO ₂	
The transfer of mobile genetic elements is mediated by Ribozymes and abzymes DNA polymerase and ligase enzymes Transposae enzyme DNAase and ligase enzymes Question No.59 Gas evolved during photo respiration No gas is evolved N2 O2 CO2 Question No.60	

all aminoacidsaliphatic aminoacids
Question No.61
The linkage present in cellulose molecule is $ \begin{array}{c} \alpha \ (1 \rightarrow 6) \\ \alpha \ (1 \rightarrow 4) \\ \beta \ (1 \rightarrow 4) \\ \beta \ (1 \rightarrow 6) \\ \end{array} $
Question No.62
Generation of combinatorial diversity among immunoglobulins do not involves mRNA splicing Recombination signal sequences DNA rearrangement One-turn/ two-turn joining rule
Question No.63
Nick Translation is done by DNA polymerase III DNA phosphodiesterase DNA ligase DNA polymerase I
Question No.64
The area allowed regions in the Ramachandran map will be least for L-Ala L-Pro Gly α-methyl L-Val
Question No.65
Michaelis and Menton derived their equation using which of the following assumption? rate limiting step in the reaction is the breakdown of ES complex to product and free enzyme concentration of substrate can be ignored rate limiting step in the reaction is the formation of ES complex

 non-enzymatic degradation of the substrate is the majo 	r step
Question No.66	
Sodium Dodecyl Sulphate (SDS) is used while separating proteins by polyacrylamide gel electrophoresis because decreases surface tension of the buffer used for electrophoresis	
 stabilizes the proteins 	
 it helps in solubilisation of proteins thereby making it ea separate 	sier to
 it binds to protein and confers uniform negative charge thereby making them to move during electrophoresis 	density
Question No.67	
Mass spectrometry is used in	
 Transcriptome analysis 	
 Transposon tagging 	
 Protein separation 	
 Proteome analysis 	
Question No.68	
In humans, most nutrient molecules are absorbed by	
Stomach	
Liver	
 Small intestine 	
 Large intestine 	
Question No.69	
The inheritance pattern of RAPD is	
Dominant	
Codominant	
Recessive	
Random	
Question No.70	
Identify a Mendelian disorder from the following Klenefilter's syndrome	
Down's syndrome	
•	
Turner's syndrome	

Question No.71	
The ability of the component cells of callus to form a whole plant is known as	
Somaclonal variation	
 Differentiation 	
 Redifferentiation 	
 Dedifferentiation 	
Question No.72	
Contraceptive pills checks	
ovulation	
entry of sperms in vagina	
o fertilization	
implantation	
Question No.73	
Which of the following eukaryotic cellular components carry out	
intracellular degradation during autophagy?	
○ Nucleus	
Lysosomes	
○ Ribosomes	
Golgi bodies	
Question No.74	
Which one of the following cells generally does not secrete IFN-γ	
TH1cells	
TH2 cells	
CD8 ⁺ T cells	
NK cells	
Ougation No. 75	
Question No.75	
Lesch Nyhan syndrome is caused by the deficiency of	
○ Uricase	
○ Inosine	
○ HGPRT	
 Xanthine oxidase 	
Question No.76	

In MRI which of the following nuclei is used for imaging? 1 H of water 31P of phosphate 19F of probe molecule 13 C of protein
Question No.77
Which of the following is not a single gene disorders Cystic fibrosis Hemophilia Marfan syndrome Klinefelter syndrome
Question No.78
Which of the following proteins is not part of the replication fork of a prokaryotic DNA Ribonuclease Helicase Primase DNA Polymerase III
Question No.79
A person consumes 100 gm protein (16 gm N ₂) per day, and loses 13.5 gm N ₂ in the urine, 2 gm N ₂ in feces and 0.5 gm N ₂ through other routes. This person is most likely to be Obese person on a high carbohydrate diet Normal healthy adult Woman in late stage pregnancy Growing child
Question No.80
Electron transport system is located in

Which of the following cannot be used as adsorbent in Column adsorption chromatography? Magnesium oxide Silica gel Potassium permanganate Activated alumina	
Question No.82	_
Transducin is found in the disc membrane of rod and cone cells. It regulates which of the following? PI 3K Phospholipase C	
Adenyl cyclise	
cGMP Phosphodiesterase	
Question No.83	
Disorder caused by enlargement of thyroid gland is called Hypothyroidism Goitre Hyperthyroidism Tetany	
Question No.84	
The LICI in gentric juice converts	
The HCl in gastric juice converts Disaccharide to monosaccharide	
Polypeptide to peptide	
Prorennin to renin	
Pepsinogen to pepsin	
Question No.85	
Smoking destroys the chilia in the respiratory passage ways. This Slows blood flow through lung blood vessel Makes harder to move air in and out of the lungs Decreases the surface area for respiration Makes it harder to keep the lungs clean	
Question No.86	
A gene was cloned into a plasmid vector. The plasmid has two rest	riction

sites , one for ECoR1 and one for Bam H1. A double digest will result in how many fragments?
0 1
O 2
0 4
○ 3
Question No.87
Rate of reabsorption of water from nephrons is increased by Somatotrophin
corticosteroids
○ Vasopressin
Oxytocin
Question No.88
K _M of an enzyme is defined as
Half substrate concentration at maximal velocity
Half maximal substrate concentration
Substrate concentration at half maximal velocity
Half maximal velocity
Train maximal velocity
Question No.89
Cytotoxic T cells kill their target cells by releasing into the target cells Perforins
○ Interleukens
○ TNF alpha
Question No.90
Somaclonal variations are the ones
Caused by gamma rays
Produce during tissue culture
 Induced during sexual embryogeny
Caused by mutagens
Question No.91
Question (to.5)
Telomeric sequence is present in YAC

pBR322
P-element
BAC
Question No.92
DNA is very long in relation to diameter. If a strand of DNA were 0.1mm in length. What is the ratio of the length to diameter? 50000
30000
60000
25000
Question No.93
The only nucleotide with a Base-to-sugar linkage as C-C is found in rRNA
o mRNA
○ tRNA
o miRNA
Question No.94
In order to find the direction of synthesis of protein chain, an in vitro translation system of globin protein was used. ¹⁴ C-Leu was added to the medium and the protein synthesis was allowed to continue for one min. The completed globin chains were isolated and sequenced. Which of the following statements is true?
14C Leu was at the carboxy terminus
14C Leu was not incorporated into the protein
14C Leu was at the amino terminus
14C Leu was uniformly distributed in the protein
Question No.95
PET scan is done using radioisotopes emitting alpha rays positrons Beta particles neutrons
Question No.96

interferons interleukins histamines lymphokines Question No.97 Si RNA interfere with gene expression at the level of Transcription Translation DNA replication Post-transcription Question No.98 Phagemid vectors are Combination of plasmid ,cosmid and phase lamda Combination of plasmid and phase lamda Combination of plasmid and cosmid Combination of cosmidandlamda Question No.99 On the molar scale which of the following interactions is a non-polar environment that provides highest contribution to the biomolecules. Hydrogen bonding Salt bridge Hydrophobic interaction Van der waal's interaction Question No.100 Which part of the genomic DNA contains the sequence corresponding to the 5' untranslated region (5' UTR) OF mRNA? Upstream of the promoter	The major chemical messenger involved in hypersensitivity is
histamines lymphokines Question No.97 Si RNA interfere with gene expression at the level of Transcription Translation DNA replication Post-transcription Question No.98 Phagemid vectors are Combination of plasmid ,cosmid and phase lamda Combination of plasmid and phase lamda Combination of plasmid and cosmid Combination of cosmidandlamda Question No.99 On the molar scale which of the following interactions is a non-polar environment that provides highest contribution to the biomolecules. Hydrogen bonding Salt bridge Hydrophobic interaction Van der waal's interaction Van der waal's interaction Question No.100 Which part of the genomic DNA contains the sequence corresponding to the 5' untranslated region (5' UTR) OF mRNA? Upstream of the promoter	interferons
Question No.97 Si RNA interfere with gene expression at the level of Transcription Translation DNA replication Post-transcription Question No.98 Phagemid vectors are Combination of plasmid ,cosmid and phase lamda Combination of plasmid and phase lamda Combination of plasmid and cosmid Combination of cosmidandlamda Question No.99 On the molar scale which of the following interactions is a non-polar environment that provides highest contribution to the biomolecules. Hydrogen bonding Salt bridge Hydrophobic interaction Van der waal's interaction Question No.100 Which part of the genomic DNA contains the sequence corresponding to the 5' untranslated region (5' UTR) OF mRNA? Upstream of the promoter	interleukins
Question No.97 Si RNA interfere with gene expression at the level of Transcription Translation DNA replication Post-transcription Question No.98 Phagemid vectors are Combination of plasmid ,cosmid and phase lamda Combination of plasmid and phase lamda Combination of plasmid and cosmid Combination of cosmidandlamda Question No.99 On the molar scale which of the following interactions is a non-polar environment that provides highest contribution to the biomolecules. Hydrogen bonding Salt bridge Hydrophobic interaction Van der waal's interaction Question No.100 Which part of the genomic DNA contains the sequence corresponding to the 5' untranslated region (5' UTR) OF mRNA? Upstream of the promoter	histamines
Si RNA interfere with gene expression at the level of Transcription Translation DNA replication Post-transcription Question No.98 Phagemid vectors are Combination of plasmid ,cosmid and phase lamda Combination of plasmid and phase lamda Combination of plasmid and cosmid Combination of cosmidandlamda Question No.99 On the molar scale which of the following interactions is a non-polar environment that provides highest contribution to the biomolecules. Hydrogen bonding Salt bridge Hydrophobic interaction Van der waal's interaction Question No.100 Which part of the genomic DNA contains the sequence corresponding to the 5' untranslated region (5' UTR) OF mRNA? Upstream of the promoter	Iymphokines
Transcription Translation DNA replication Post-transcription Question No.98 Phagemid vectors are Combination of plasmid ,cosmid and phase lamda Combination of plasmid and phase lamda Combination of plasmid and cosmid Combination of cosmidandlamda Question No.99 On the molar scale which of the following interactions is a non-polar environment that provides highest contribution to the biomolecules. Hydrogen bonding Salt bridge Hydrophobic interaction Van der waal's interaction Question No.100 Which part of the genomic DNA contains the sequence corresponding to the 5' untranslated region (5' UTR) OF mRNA? Upstream of the promoter	Question No.97
Transcription Translation DNA replication Post-transcription Question No.98 Phagemid vectors are Combination of plasmid ,cosmid and phase lamda Combination of plasmid and phase lamda Combination of plasmid and cosmid Combination of cosmidandlamda Question No.99 On the molar scale which of the following interactions is a non-polar environment that provides highest contribution to the biomolecules. Hydrogen bonding Salt bridge Hydrophobic interaction Van der waal's interaction Question No.100 Which part of the genomic DNA contains the sequence corresponding to the 5' untranslated region (5' UTR) OF mRNA? Upstream of the promoter	Si RNA interfere with gene expression at the level of
DNA replication Post-transcription Question No.98 Phagemid vectors are Combination of plasmid ,cosmid and phase lamda Combination of plasmid and phase lamda Combination of plasmid and cosmid Combination of cosmidandlamda Question No.99 On the molar scale which of the following interactions is a non-polar environment that provides highest contribution to the biomolecules. Hydrogen bonding Salt bridge Hydrophobic interaction Van der waal's interaction Van der waal's interaction Question No.100 Which part of the genomic DNA contains the sequence corresponding to the 5' untranslated region (5' UTR) OF mRNA? Upstream of the promoter	·
Post-transcription Question No.98 Phagemid vectors are	Translation
Post-transcription Question No.98 Phagemid vectors are	DNA replication
Phagemid vectors are Combination of plasmid ,cosmid and phase lamda Combination of plasmid and phase lamda Combination of plasmid and cosmid Combination of cosmidandlamda Question No.99 On the molar scale which of the following interactions is a non-polar environment that provides highest contribution to the biomolecules. Hydrogen bonding Salt bridge Hydrophobic interaction Van der waal's interaction Question No.100 Which part of the genomic DNA contains the sequence corresponding to the 5' untranslated region (5' UTR) OF mRNA? Upstream of the promoter	·
Phagemid vectors are Combination of plasmid ,cosmid and phase lamda Combination of plasmid and phase lamda Combination of plasmid and cosmid Combination of cosmidandlamda Question No.99 On the molar scale which of the following interactions is a non-polar environment that provides highest contribution to the biomolecules. Hydrogen bonding Salt bridge Hydrophobic interaction Van der waal's interaction Question No.100 Which part of the genomic DNA contains the sequence corresponding to the 5' untranslated region (5' UTR) OF mRNA? Upstream of the promoter	Question No.98
Combination of plasmid ,cosmid and phase lamda Combination of plasmid and cosmid Combination of cosmidandlamda Question No.99 On the molar scale which of the following interactions is a non-polar environment that provides highest contribution to the biomolecules. Hydrogen bonding Salt bridge Hydrophobic interaction Van der waal's interaction Question No.100 Which part of the genomic DNA contains the sequence corresponding to the 5' untranslated region (5' UTR) OF mRNA? Upstream of the promoter	
Combination of plasmid and phase lamda Combination of plasmid and cosmid Combination of cosmidandlamda Question No.99 On the molar scale which of the following interactions is a non-polar environment that provides highest contribution to the biomolecules. Hydrogen bonding Salt bridge Hydrophobic interaction Van der waal's interaction Question No.100 Which part of the genomic DNA contains the sequence corresponding to the 5' untranslated region (5' UTR) OF mRNA? Upstream of the promoter	<u> </u>
Combination of plasmid and cosmid Combination of cosmidandlamda Question No.99 On the molar scale which of the following interactions is a non-polar environment that provides highest contribution to the biomolecules. Hydrogen bonding Salt bridge Hydrophobic interaction Van der waal's interaction Question No.100 Which part of the genomic DNA contains the sequence corresponding to the 5' untranslated region (5' UTR) OF mRNA? Upstream of the promoter	
Combination of cosmidandlamda Question No.99 On the molar scale which of the following interactions is a non-polar environment that provides highest contribution to the biomolecules. Hydrogen bonding Salt bridge Hydrophobic interaction Van der waal's interaction Question No.100 Which part of the genomic DNA contains the sequence corresponding to the 5' untranslated region (5' UTR) OF mRNA? Upstream of the promoter	
Question No.99 On the molar scale which of the following interactions is a non-polar environment that provides highest contribution to the biomolecules. Hydrogen bonding Salt bridge Hydrophobic interaction Van der waal's interaction Question No.100 Which part of the genomic DNA contains the sequence corresponding to the 5' untranslated region (5' UTR) OF mRNA? Upstream of the promoter	·
On the molar scale which of the following interactions is a non-polar environment that provides highest contribution to the biomolecules. Hydrogen bonding Salt bridge Hydrophobic interaction Van der waal's interaction Question No.100 Which part of the genomic DNA contains the sequence corresponding to the 5' untranslated region (5' UTR) OF mRNA? Upstream of the promoter	Combination of cosmidandlamda
environment that provides highest contribution to the biomolecules. Hydrogen bonding Salt bridge Hydrophobic interaction Van der waal's interaction Question No.100 Which part of the genomic DNA contains the sequence corresponding to the 5' untranslated region (5' UTR) OF mRNA? Upstream of the promoter	Question No.99
 Hydrogen bonding Salt bridge Hydrophobic interaction Van der waal's interaction Question No.100 Which part of the genomic DNA contains the sequence corresponding to the 5' untranslated region (5' UTR) OF mRNA? Upstream of the promoter 	On the molar scale which of the following interactions is a non-polar
 Salt bridge Hydrophobic interaction Van der waal's interaction Question No.100 Which part of the genomic DNA contains the sequence corresponding to the 5' untranslated region (5' UTR) OF mRNA? Upstream of the promoter 	environment that provides highest contribution to the biomolecules.
 Hydrophobic interaction Van der waal's interaction Question No.100 Which part of the genomic DNA contains the sequence corresponding to the 5' untranslated region (5' UTR) OF mRNA? Upstream of the promoter 	 Hydrogen bonding
Van der waal's interaction Question No.100 Which part of the genomic DNA contains the sequence corresponding to the 5' untranslated region (5' UTR) OF mRNA? Upstream of the promoter	 Salt bridge
Question No.100 Which part of the genomic DNA contains the sequence corresponding to the 5' untranslated region (5' UTR) OF mRNA? Upstream of the promoter	 Hydrophobic interaction
Which part of the genomic DNA contains the sequence corresponding to the 5' untranslated region (5' UTR) OF mRNA? Upstream of the promoter	Van der waal's interaction
the 5' untranslated region (5' UTR) OF mRNA? Upstream of the promoter	Question No.100
	the 5' untranslated region (5' UTR) OF mRNA?
	 Upstream of the promoter
First Intron	First Intron
First Exon	First Exon
Downstream of the transcription start site	Downstream of the transcription start site