0706E451

Candidate's Seat No:_____

M.Sc Sem.-2 Examination

P - 407 Toxicology June 2022

Time: 2-00 Hours]

[Max. Marks: 50

Q.1	TOROWING (ANY CIVI)
1	Write a short note on enkaryotic transcription 42 Marks
2	1 least describe in defail along with the figure 1
3	
4	The did the divertible to depert to the clear to the
5_	Describe type of DNA damages. Any five
6	Please explain the Base Excision Donois
7	What is the difference between UV light based DNA damage and Reactive oxygen Species (ROS)
	based DNA damage based DNA damage and Reactive oxygen Species (ROS)
8	Please describe the definition of the rootside
	Please describe the definition of the restriction enzyme. If you have to digest a 1KB long DNA fragment what are the maximum and minimum fragment sizes can be generated? There is a plasmid which carries a mutant gape MX.
9	There is a plasmid which carries a mutation in agricult sizes can be generated?
	gene WX, please draw how the mutant ale wild type
	type gene. MX gene can be diggested with at
	type gene. MX gene can be digested with the enzyme EcoRI. In order to maintain the orientation of
10	the gene you have to treat it with alkaline phosphates enzyme, please display it at correct position. Answer the Fall in Girls and the Green with the enzyme EcoRI. In order to maintain the orientation of Write a note on G Protein couple receptors(GPCR)
Q.2	Answer the Following Short Questions (Any Eight)
[Which RNA polymerase is responsible for the six in the same and the sa
)	Which RNA polymerase is responsible for transcription of tRNA gene in eukaryotes? What is the role of Mg+2 in PCR reaction mixture?
	Write down the subunits of histone proteins involved in DNA packaging. Which RNA polymerase is regressible 6.
	Which RNA polymerase is responsible for transcription of tRNA gene in eukaryotes? Real-time PCR is an example to study PNA accordance in the
	Real-time PCR is an example to study RNA genotoxicity markers. What is the essence of RTPCR assay?
	assay?
	A) cDNA conversion B) Payage Trans.
	A) cDNA conversion. B) Revese Transcriptase enzyme C)Restriction Enzyme D) CT value calculation
	Apurinic or Apyrimidinic sites (AP sites) are observed in the type of the DNA repair
	A)Homologous Recombination B)Non-homolgous End joining C)Repair on Alkylation D) Page F
	C)Repair on Alkylation D) Base Excision Repair Holiday Innetion
i	A)Homologous Recombination B)Non-homologus End joining C)Repair on Alkylation D)Page English B
	C)Repair on Alkylation D)Base Excision Repair
	Attol Clothing the antihiotic registance with
1	A) Positive selection of the clones B)Killing plasmid less bacteria C) Plasmid amplification D) All of the clones B)
	C) Plasmid amplification D) All of the above.
	DIVA GAIDUP can hoppon J
1	A) Positive center B)Double helix nature
	Cycle bytene size.
	Cyclo butane rings are found due to the control of
	Cyclo butane rings are found due to pyrimidine dimer. This can be seentype of DNA
ļ	A)Alkylation damge B)ROS C)UV DNA damage D)During DNA repair