## **Cochin University of Science & Technology**

Assistant Professor (Life Science/Biotechnology with specialization in Molecular Biology) Questions and answers of the online test conducted on 28/03/2015

In the incubation mixture for protoplast isolation, the mannitol supplied functions primarily as				
Select one:				
a. Source of energy				
O b. Buffer				
C. Osmotic stabilizer				
O d. N-source				
The correct answer is: Osmotic stabilizer				
Hardness of water is mainly due to the occurance of				
Select one:				
◯ a. Na <sup>†</sup>				
o b. Ca and Mg ions				
C. H <sub>2</sub> SO <sub>4</sub>				
O d. CI and SO <sub>4</sub> ions				
The correct answer is: Ca and Mg ions				
Bacterial lipopolysaccharide is characterised by				
Select one:				
a. Glycolipids				
b. Ketodeoxyoctulonate				
C. Phospholipids				
d. Ribitol teichoic acid				
The correct answer is: Ketodeoxyoctulonate				

( a.	X-inactivation centre
O b.	Cassette mechanism
O c.	Dosage compensation
( d.	Epigenetic change
The co	rrect answer is: Epigenetic change
70% al	cohol is used in DNA isolation to
Select (	one:
( a.	Precipitate DNA
O b.	Precipitate protein
O c.	Removes salt
( d.	Removes lipid
The co	rrect answer is: Removes salt
	nology which is useful for identifying and quantifying different plites in a cell is
Select (	one:
( a.	GC-MS
( b.	Sanger method
O c.	SAGE
( d.	Structural genomics
The co	rrect answer is: GC-MS
	cond phase in meiosis (Meiosis-II) leads to
The sec	cond phase in meiosis (Meiosis-II) leads to
The sec	cond phase in meiosis (Meiosis-II) leads to
The sec	cond phase in meiosis (Meiosis-II) leads to
The second Select of a.	cond phase in meiosis (Meiosis-II) leads to one: Fresh DNA synthesis

The correct answer is: Separation of homologous chromosomes

blood sa	ample has
Select o	one:
O a.	5.29 times lower $[H^{\dagger}]$ than the gastric juice
O b.	6 times lower [H <sup>+</sup> ] than the gastric juice
O c.	6000 times lower $[H^{^{\dagger}}]$ than the gastric juice
O d.	a million times lower [H <sup>+</sup> ] than the gastric juice
The cor	rect answer is: a million times lower [H <sup>+</sup> ] than the gastric juice
The ger	nome size in <i>Saccharamyces cerevisae</i> is
Select o	one:
O a.	14x10 <sup>6</sup> bp
O b.	3x10 <sup>8</sup> bp
O c.	1x10 <sup>8</sup> bp
O d.	1.25x10 <sup>8</sup> bp
Select o	allest genome among the following organisms is one:  Mycoplasma genitalium
O b.	Bacillus subtilis
	Methanococcusjannaschi
( d.	E.coli
The cor	rect answer is: <i>Mycoplasma genitalium</i>
The clo	ning vector pBS161-1 naturally occurs in
Select o	one:
O a.	Bacillus subtilis
O b.	E.coli
O c.	Derivative of pBR 322
(C) d	Pseudomonas putida

The correct answer is: Bacillus subtilis

Shine D	
Select o	one:
O a.	Eukaryotic rRNA
O b.	Prokaryotic mRNA
O c.	Eukaryotic tRNA
( d.	Prokaryotic tRNA
The cor	rect answer is: Prokaryotic mRNA
The sin	gle letter code 'Y' used in bioinformatics data stands for
Select o	one:
O a.	Purine
O b.	Pyrimidine
O c.	Keto
( d.	Amino
The cor	rect answer is: Pyrimidine
The cor	rect answer is: Pyrimidine
	rect answer is: Pyrimidine explained transformation principle after his experiments using
Griffith (	explained transformation principle after his experiments using
Griffith o	explained transformation principle after his experiments using
Griffith o	explained transformation principle after his experiments using one:
Griffith of Select of a.	explained transformation principle after his experiments using one:  E.coli
Griffith of Select of a.	explained transformation principle after his experiments using one:  E.coli  Neurospora
Griffith of Select of a.  b. c.	explained transformation principle after his experiments using one:  E.coli  Neurospora  Streptomyces
Griffith of Select of a.  a. b. c. d.	explained transformation principle after his experiments using one:  E.coli  Neurospora  Streptomyces  Pneumonia causing bacterium
Griffith of Select of a.  a. b. c. d. The cor	explained transformation principle after his experiments using one:  E.coli  Neurospora  Streptomyces  Pneumonia causing bacterium  rect answer is: Pneumonia causing bacterium
Griffith of Select of Control of	explained transformation principle after his experiments using one:  E.coli  Neurospora  Streptomyces  Pneumonia causing bacterium  rect answer is: Pneumonia causing bacterium
Griffith of Select of Control of	explained transformation principle after his experiments using one:  E.coli  Neurospora  Streptomyces  Pneumonia causing bacterium  rect answer is: Pneumonia causing bacterium  plasminogen activator is used for
Griffith of Select of Control of	explained transformation principle after his experiments using one:  E.coli  Neurospora  Streptomyces  Pneumonia causing bacterium  rect answer is: Pneumonia causing bacterium  plasminogen activator is used for one:  Maintaning turgor pressure

The correct answer is: Dissolving blood clots

The sur referred	
Select o	one:
O a.	Twisting number
O b.	Linking number
O c.	Writhing number
O d.	Helical number
The cor	rect answer is: Linking number
The spe	ecificity factor of APC in the degradation of securing
Select o	one:
O a.	Cdc 20
O b.	Cdh 1
O c.	Cdc1
O d.	Cdc 15
	rect answer is: Cdc 20  cytometry, each peak in histogram represents
Select of a. b. c.	cytometry, each peak in histogram represents
Select of a. b. c. d.	cytometry, each peak in histogram represents one: Probe labeled with flurochrome Chromosome labeled with quinacrine Single or group of chromosome of same size
In flow of Select of a. b. c. d.	cytometry, each peak in histogram represents one: Probe labeled with flurochrome Chromosome labeled with quinacrine Single or group of chromosome of same size Length of chromosomal arms
In flow of Select of a.  Select of a.  C. C	cytometry, each peak in histogram represents one: Probe labeled with flurochrome Chromosome labeled with quinacrine Single or group of chromosome of same size Length of chromosomal arms  rect answer is: Single or group of chromosome of same size one of the following represents palindrome sequence for <i>Eco</i>
In flow of Select of a	cytometry, each peak in histogram represents one: Probe labeled with flurochrome Chromosome labeled with quinacrine Single or group of chromosome of same size Length of chromosomal arms  rect answer is: Single or group of chromosome of same size one of the following represents palindrome sequence for <i>Eco</i>
In flow of Select of a.  Select of the correction of the correctio	cytometry, each peak in histogram represents one: Probe labeled with flurochrome Chromosome labeled with quinacrine Single or group of chromosome of same size Length of chromosomal arms  rect answer is: Single or group of chromosome of same size one of the following represents palindrome sequence for <i>Eco</i> one:
In flow of Select of a.  The corr  Which of RI?  Select of a.  - Go	cytometry, each peak in histogram represents  one:  Probe labeled with flurochrome  Chromosome labeled with quinacrine  Single or group of chromosome of same size  Length of chromosomal arms  rect answer is: Single or group of chromosome of same size  one of the following represents palindrome sequence for <i>Eco</i> one:  - CGCTATATGCAACG -
In flow of Select of a.  O b. O c. O d.  The cor  Which of RI?  Select of a.  - Go b.	cytometry, each peak in histogram represents  one: Probe labeled with flurochrome Chromosome labeled with quinacrine Single or group of chromosome of same size Length of chromosomal arms  rect answer is: Single or group of chromosome of same size  one of the following represents palindrome sequence for <i>Eco</i> one: - CGCTATATGCAACG -

O d ATTAGAATTCCG -
- TAATCTTAAGGC -
The correct answer is: - ATTAGAATTCCG -
- TAATCTTAAGGC -
17VIOT I7VIGGO
Which of the following molecule have two rings in their structure?
Select one:
a. Purine
O b. Pyrimidine
C. Polysaccharide
O d. Pyrrole
The correct answer is: Purine
Mitomycin is a
Select one:
a. Aflotoxin
b. Bioengineered protein
C. Biochip
od. Immobilized enzyme
The correct answer is: Aflotoxin
The proteins are denaturated and have a negative charge with a uniform charge to mass ratio, when treated with
Select one:
a. TMED
O b. SDS
O c. PAGE
O d. Polygalacturanse

The correct answer is: SDS

The amino acid obtained from kelp which is often used as a flavour enhancer is

Select one:	
a. L-Lysine	
b. L-glycine	
C. L-Glutamate	
d. D/L-Methionine	
The correct answer is: L-Glutamate	
Which of the following acts as asceptic working table of animal cells?	e for inoculation
Select one:	
a. LAF	
O b. 70% ethanol	
C. CO2 incubator	
O d. Culture room	
The correct answer is: LAF	
THE CORECT ANSWER IS. LAF	
THE CORRECT ANSWER IS. LAF	
	as
The tyrosine tRNA precursor prepared from <i>E.coli ha</i>	as
The tyrosine tRNA precursor prepared from <i>E.coli ha</i>	as
The tyrosine tRNA precursor prepared from <i>E.coli ha</i> Select one:  a. 126 nucleotide	as
The tyrosine tRNA precursor prepared from <i>E.coli ha</i> Select one:  a. 126 nucleotide b. 51 nucleotide	as
The tyrosine tRNA precursor prepared from <i>E.coli ha</i> Select one:  a. 126 nucleotide b. 51 nucleotide c. 207 nucleotide	as
The tyrosine tRNA precursor prepared from <i>E.coli ha</i> Select one:  a. 126 nucleotide b. 51 nucleotide	as
The tyrosine tRNA precursor prepared from <i>E.coli ha</i> Select one:  a. 126 nucleotide b. 51 nucleotide c. 207 nucleotide d. 162 nucleotide	as
The tyrosine tRNA precursor prepared from <i>E.coli ha</i> Select one:  a. 126 nucleotide b. 51 nucleotide c. 207 nucleotide d. 162 nucleotide	as
The tyrosine tRNA precursor prepared from <i>E.coli ha</i> Select one:  a. 126 nucleotide b. 51 nucleotide c. 207 nucleotide d. 162 nucleotide	as
The tyrosine tRNA precursor prepared from <i>E.coli ha</i> Select one:  a. 126 nucleotide  b. 51 nucleotide  c. 207 nucleotide  d. 162 nucleotide  The correct answer is: 126 nucleotide	It in a protein
The tyrosine tRNA precursor prepared from <i>E.coli ha</i> Select one:  a. 126 nucleotide b. 51 nucleotide c. 207 nucleotide d. 162 nucleotide  The correct answer is: 126 nucleotide  The change in adenosine to inosine editing can resulating altered amino acid sequence. This editing is can	It in a protein
The tyrosine tRNA precursor prepared from <i>E.coli ha</i> Select one:  a. 126 nucleotide b. 51 nucleotide c. 207 nucleotide d. 162 nucleotide  The correct answer is: 126 nucleotide	It in a protein
The tyrosine tRNA precursor prepared from <i>E.coli ha</i> Select one:  a. 126 nucleotide  b. 51 nucleotide  c. 207 nucleotide  d. 162 nucleotide  The correct answer is: 126 nucleotide  The change in adenosine to inosine editing can resulate with altered amino acid sequence. This editing is called Select one:	It in a protein
The tyrosine tRNA precursor prepared from <i>E.coli ha</i> Select one:  a. 126 nucleotide b. 51 nucleotide c. 207 nucleotide d. 162 nucleotide  The correct answer is: 126 nucleotide  The change in adenosine to inosine editing can resulate with altered amino acid sequence. This editing is called Select one: a. ADARs b. ADA	It in a protein
The tyrosine tRNA precursor prepared from <i>E.coli ha</i> Select one:  a. 126 nucleotide  b. 51 nucleotide  c. 207 nucleotide  d. 162 nucleotide  The correct answer is: 126 nucleotide  The change in adenosine to inosine editing can resulating altered amino acid sequence. This editing is can select one:  a. ADARs	It in a protein

O b. 13 chromosomes
C. 15 chromosomes
O d. 16 chromosomes
The correct answer is: 17 chromosomes
New genes are generated from
Select one:
a. Pre existing genes
b. Gene mutations only
C. Disjunction
O d. Non disjunction
The correct answer is: Pre existing genes
The secondary structure of a protein can be predicted by
Select one:
a. Western blot
b. Ramachandran plot
C. ELISA
O d. Haldane equation
The correct answer is: Ramachandran plot
Picornaviridae are
Select one:
a. Viruses composed of single stranded (+) type RNA
b. Viruses composed of single stranded (-) type RNA
c. Viruses composed of single stranded DNA
d. Viruses composed of double stranded RNA

The correct answer is: Viruses composed of single stranded (+) type RNA

a. Bioinformatics	
o b. HGP	
O c. ELISA	
O d. Widal test	
The correct answer is: HGP	
Homeobox is composed of	
Select one:	
a. 100 nucleotide sequences	
b. 180 nucleotide sequences	
C. 200 nucleotide sequences	
d. 60 nucleotide sequences	
The correct answer is: 180 nucleotide sequences	
Lycopene is the pigment mainly responsible for the color of	
Select one:	
a. Papaya	
O b. Carrot	
C. Tomato	
O d. Mango	
The control of the co	
The correct answer is: Tomato	
Black rots in eggs is caused by	
Select one:	
a. Pseudomonas	
O b. Proteus	
C. Acetobacter	
O d. Alcaligenes	
The correct answer is: <i>Proteus</i>	

In animal cell tissue palladium deposited on agarose was substrate for grwoth of	used as a
Select one:	
a. Amniotic cells	
◯ b. RBC	
C. Fibroblast	
d. None	
The correct answer is: Fibroblast	
The first nucleotide of RNA exists as	
Select one:	
a. Monophosphate	
b. Diphosphate	
c. Triphosphate	
d. None of these	
Which of the following responsible for procreation of estrogovulation?  Select one:  a. Lutenizing hormone  b. Follicle stimulating hormone  c. Both LH and FSH	gen and
O d. Prost	
The correct answer is: Both LH and FSH	
Solitott allomor lo. Dour Eri alla i Ori	
The double helical structure of DNA was published in natural the title	re under
The double helical structure of DNA was published in natu	re under
The double helical structure of DNA was published in natural the title	re under
The double helical structure of DNA was published in natural the title  Select one:	re under
The double helical structure of DNA was published in natural the title  Select one:  a. Molecular structure of DNA	re under

Select	one:
	Fibroblast
	T-cells
	Nasal epithelium
	Myoblasts
<u></u>	Wyobiasts
The co	rrect answer is: Fibroblast
	of the following mineral element facilitates insulin bindings to ceptor site?
Select	one:
() a.	Zinc
O b.	Chromium
O c.	Copper
() d.	Selenium
The co	rrect answer is: Chromium
Vermic	culaite is aluminosilicate soil clay belonging to the type
Select	
() a.	. 1:1
( b.	2:1
O C.	2:2
( d.	2:1:1
The co	rrect answer is: 2:1
DNA fi	nger printing is a modified
Select	
-	RFLP
() a.	
	PCR
O b.	PCR RAPD

Select	one:
() a.	Phenylethylamine
O b.	Phenoxyacetic acid
O C.	Benzoic acid
( d.	Penicillanic acid
The co	rrect answer is: Phenylethylamine
The nit	rogen base in nuclei acid which does not contain a keto group
Select	one:
( a.	Guanine and thymine
( b.	Guanine and adenine
( c.	Thymine and cytosine
( d.	Adenine
The co	rrect answer is: Adenine
0	
	eiosis is pollen mother cell and one meiosis in megaspore cell will contribute gamates for one seed formation in a
Polygo	num type (typical) angiosperm plants. How much meiosis
	take place for the production of 100 pollen grains and 100 sacs which leads to production of 100 seeds?
Select	one:
_	100
O b.	125
O c.	200
( d.	250
The co	rrect answer is: 125

The bioproduct used for acute myocardial infraction which is obtained from animal cell culture is

Select one:

	d. Somatropin
The c	orrect answer is: Urokinase type plasminogen activator
Agrol	pacterium tumifaciens naturally occurs in
Selec	t one:
0	a. Capillary water
() I	o. Root branching portions
0	c. Root stem transition zone
0	d. Soil
The c	orrect answer is: Soil
Diabe	etic person, upon starvation, accumulates
Selec	t one:
0	a. Ketone bodies
	a. Ketone bodies o. Global Alignment
O 1	
0	o. Global Alignment
0	o. Global Alignment c. Glycogen
The c	o. Global Alignment c. Glycogen d. Water
The c	o. Global Alignment c. Glycogen d. Water  orrect answer is: Ketone bodies
The c	c. Global Alignment c. Glycogen d. Water  orrect answer is: Ketone bodies  is a complex material formed by
The co	c. Glycogen d. Water  orrect answer is: Ketone bodies  is a complex material formed by t one:
The co	c. Glycogen d. Water  orrect answer is: Ketone bodies  is a complex material formed by t one: a. Polymer of glucose and sulphur containing pectins
The co	c. Glycogen d. Water  orrect answer is: Ketone bodies  is a complex material formed by t one: a. Polymer of glucose and sulphur containing pectins b. Polymer of galactose and sulphur containing amino acids

The repeating sequence in the telomeric region of human DNA is

Select one:

۵. ۱	ΓAGGG
O b. T	rgggg
( c. T	TTTGG
O d. G	GGTTT
The corre	ct answer is: TTAGGG
Insulin is	made up of
Select on	e:
	lucose and fructose
O b. Two p	polypeptide chains
C. Fructo	ose
O d. N-ace	etyl glucosamine
Fructose	
	ol is used in the treatment of
Allopurino	ol is used in the treatment of
Allopuring Select on	e:
Allopuring Select on a. G	e: out
Allopuring Select on a. G b. He	e: out emophilia
Allopuring Select on a. G b. He c. Cy	e: out
Allopuring Select on a. G b. He c. Cy d. M	e: out emophilia ystic fibrosis
Allopuring Select on a. G b. He c. Cy d. M	e: out emophilia ystic fibrosis uscular dystrophy ect answer is: Gout
Allopuring Select on a. G b. He c. Cy d. M	e: out emophilia ystic fibrosis uscular dystrophy ect answer is: Gout atin is a
Allopuring Select on a. G b. He c. Cy d. M  The corre  Somatost Select on	e: out emophilia ystic fibrosis uscular dystrophy ect answer is: Gout atin is a
Allopuring Select on a. G b. He c. Cy d. M  The corre  Somatost Select on a. G	e: out emophilia ystic fibrosis uscular dystrophy ect answer is: Gout atin is a e:
Allopuring Select on a. G b. He c. Cy d. M  The corre  Somatost Select on a. G b. 51	e: out emophilia ystic fibrosis uscular dystrophy ect answer is: Gout atin is a e: lobular protein

The correct answer is: 14 residue polypeptide hormone

kinase	of the following is not true for CDKs (Cyclin-dependent e)?
Selec	t one:
	a. They are relatively large protein which ranges from 400-4000kDA
() t	o. Regulates cell cycle
0	c. Regulates transcription
0	d. Regulate mRNA processsing
	orrect answer is: They are relatively large protein which ranges 3400-4000kDA
The p	hysical expression of genetic information in an organism is
Selec	t one:
() a	a. Phenotype
() b	o. Trait indicator
	c. Genotype
0	d. Protein display
The c	orrect answer is: Phenotype
	NA strand contains 2000 base pairs, how many spirals would in each strand?
Selec	t one:
	a. 20
() t	o. 200
0	c. 2000
	d. 400
The c	orrect answer is: 200
The m	node of replication in mitochondrial DNA
Selec	
	a. Rolling circle replication
	b. D-Loop replication
$\bigcirc$	c. Theta replication
	d. Unidirectional replication

	orrect answer is: D-Loop replication
-	cal map of restriction sites within a gene located normally on a osome can be provided by
Select	one:
() a	. Southern blot
() b	. Northern blot
0	. Western blot
0 0	l. Any of these
The c	orrect answer is: Southern blot
The re	elationship between affinity of the enzyme for its substrate is
Select	one:  Inversely proportional to feedback ability
	. Inversely proportional to catalytic activity
	Enzyme and its substrate are usually strangers to each other
	I. Directly proportional to catalytic activity
The c	orrect answer is: Directly proportional to catalytic activity
The tr	ansposons known as P elements are found in
Select	one:
() a	. Dracaena
() b	o. Drosera
0	. Drosophila
0	I. Drynaria
The c	orrect answer is: <i>Drosophila</i>
The fla	avour of garlic is stored in
	one:
Select	. Peoxisomes
Select	
Select	. Peoxisomes

0	a. 2
0	b. 3
0	c. 5
0	d. 6
The	correct answer is: 5
A pa	tient with azoospermia has
	ct one:
0	a. High amount of non-motile sperms
0	b. Medium number of motile sperms
Ō	c. High number of motile sperms
0	d. High to moderate number of motile sperm
The	correct answer is: High amount of non-motile sperms
The	molecular scissors present in many types of bacteria are
Sele	ct one:
0	a. DNA polymerase
0	b. Plasmid
0	c. Episomes
0	d. Restriction enzyme
The	correct answer is: Restriction enzyme
Whi	ch of the following tolerates higher ethanol concentration during
	entation?
Sele	ct one:
0	a. Sacchromyces cereviseae
	b. Zymomonas spp.
0	-
0	c. E.coli

Coir pith	n waste is degraded by
Select o	one:
O a.	Bacillus
O b.	Pleurotus sajor-caju
O c.	E.coli
O d.	Salmonella
The cor	rect answer is: <i>Pleurotus sajor-caju</i>
Lysine i	ncorporated as animal feed additive is produced industrially
by	
Select o	one:
( a.	Brevibacterium spp.
O b.	Micrococcus glutamicus
O c.	Bacillus subtilis
O d.	Geobacillus suboxydans
The cor	rect answer is: Micrococcus glutamicus
	of the following is a non-radioactive approach for labelling the acids to be used as DNA probe?
Select o	one:
( a.	Nick translation
O b.	Biotin-streptavidin labelling system
O c.	Probes developed by PCR
	Dot blot technique

The correct answer is: Zymomonas spp.

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Galactose	
Select on	
_	ructokinase
_	dolase
C. Tr	ansferase
O d. La	actase
The corre	ct answer is: Transferase
Chemiosr	mosis is accomplished in the presence of
Select on	e:
_	EP kinase
_	itrate synthase
	TP synthase
	EP carboxylase
The corre	ct answer is: ATP svnthase
	ct answer is: ATP synthase the following is not a bioethics concern in animal genetic
Which of	the following is not a bioethics concern in animal genetic
Which of tengineeri	the following is not a bioethics concern in animal genetic ng?
Which of tengineering	the following is not a bioethics concern in animal genetic ng?
Which of the engineering Select on a. Co	the following is not a bioethics concern in animal genetic ng?
Which of the engineering Select on a. Co	the following is not a bioethics concern in animal genetic ng? e: oncerns about escape of transgene
Which of the engineering Select one a. Co	the following is not a bioethics concern in animal genetic ng? e: oncerns about escape of transgene oncerns about risk for escape of retroviruses
Which of the engineering as Cooling b. Cooling c. Cooling d. Cooling as Cooli	the following is not a bioethics concern in animal geneticing?  e: concerns about escape of transgene concerns about risk for escape of retroviruses concern in over production of recombinant
Which of the engineering a. Color of the corre	the following is not a bioethics concern in animal geneticing?  e: concerns about escape of transgene concerns about risk for escape of retroviruses concern in over production of recombinant concerns in xenotransplantation  ect answer is: Concern in over production of recombinant
Which of the engineering a. Color of the corre	the following is not a bioethics concern in animal geneticing?  e: concerns about escape of transgene concerns about risk for escape of retroviruses concern in over production of recombinant concerns in xenotransplantation
Which of the engineering a. Color of the corre	the following is not a bioethics concern in animal geneticing?  e: concerns about escape of transgene concerns about risk for escape of retroviruses concern in over production of recombinant concerns in xenotransplantation  ect answer is: Concern in over production of recombinant the following can be called as a protective protein?
Which of the engineering a. Color of the correct which of the select one	the following is not a bioethics concern in animal geneticing?  e: concerns about escape of transgene concerns about risk for escape of retroviruses concern in over production of recombinant concerns in xenotransplantation  ect answer is: Concern in over production of recombinant the following can be called as a protective protein?
Which of the engineering a. Considering a. Considering a. Considering a. Considering a. Important to the corresponding a. Important to the cor	the following is not a bioethics concern in animal geneticing?  e: oncerns about escape of transgene oncerns about risk for escape of retroviruses oncern in over production of recombinant oncerns in xenotransplantation  ect answer is: Concern in over production of recombinant the following can be called as a protective protein?  e:
Which of the engineering a. Color of the corresponding a. Important b. Color of the corresponding a. Important	the following is not a bioethics concern in animal genetic ng?  e: concerns about escape of transgene concerns about risk for escape of retroviruses concern in over production of recombinant concerns in xenotransplantation  cct answer is: Concern in over production of recombinant the following can be called as a protective protein?  e: cmunoglobulin

The correct answer is: Immunoglobulin

The	greatest biochemical diversity is seen among
Sele	ect one:
0	a. Plasmids
0	b. Bacteria
0	c. Bacteriophages
0	d. Humans
The	correct answer is: Bacteria
The calle	integrated information database retrieval system of NCBI is ed?
Sele	ect one:
0	a. MGD
0	b. EMBL
0	c. ENTREZ
0	d. OMIM
The	correct answer is: ENTREZ
	virus has RNA dependent DNA polymerase as part of its
gen	ome
Sele	ect one:
0	a. Influenza virus
0	b. Herpes virus
0	c. Cauliflower mosaic virus
0	d. Papilloma virus
The	correct answer is: Influenza virus
	rheological property of the medium grown with <i>Aspergillus</i> rae after 5 days is
Sele	ect one:
0	a. Newtonian
0	b. Pseudoplastic
Ō	c. Casson plastic
	•
0	d. Bingham plastic

Cytocl	nromes are
Select	one:
( a	. Riboflavin nucleotides
() b	. Pyrimidine nucleotides
( c	. Iron porphyrin proteins
() d	. Flavoproteins
The co	orrect answer is: Iron porphyrin proteins
Shrink	resistance to wool is imparted by Kylan, which is a derivative
of	, , , , , , , , , , , , , , , , , , ,
Select	one:
() a	. collagen
() b	. chitin
( ) c	. gelatin
( ) d	. phycocolloids
The co	orrect answer is: chitin
Which	of the following is considered as a secondary metabolite?
Select	one:
() a	. Vitamin B <sub>12</sub>
() b	. Citric acid
() c	. Ethanol from yeast
() d	. Mycotoxin
The co	orrect answer is: Ethanol from yeast
Two o	trands of DNA double helix coil
I WU S	TAINGS OF DIVA GOUDIC HEILA COIL
Select	
() a	. Around each other
() b	. Around a common axis
	At the transfer of the state of
( c	. At right angles to each other

The correct answer is: Around a common axis In 70S ribosome, 'S' is indirectly a measure of Select one: a. Binding action b. Capacity for protein synthesis c. Density and size o. Density and attachment pattern The correct answer is: Density and size The prosthetic group in carbonic anhydrase is Select one: a. Iron o b. Zinc C. Nickel d. Molybdenum The correct answer is: Zinc Which of the following group to which caffeine is classified? Select one: a. Purine b. Pyrimides c. Hydrocarbons d. Complex ploysaccharides The correct answer is: Purine In sickle-cell anaemia, the infected person shows Select one: a. Altered α chain of haemoglobin b. Altered β chain of haemoglobin

 $\bigcirc$  c. Altered α and β chain of haemoglobin

d. Unpredictable changes in haemoglobin

An antibiotic that inhibits cell wall synthesis is Select one: a. Streptomycin b. Tetracycline C. Ampicillin d. Chloramphenicol The correct answer is: Ampicillin According to Michaleis-Menten equation which of the following is correct Select one: ( a.  $V_0 = \underline{Vmax[s]}$ Edit question Km+[s] ( b. Vmax=Km+[s]  $V_0$ ( c. Km=<u>V</u><sub>0</sub> [s] ( d.  $V_0 = Km + [s]$ The correct answer is:  $V_0 = \underline{Vmax[s]}$ Km+[s] Half-life period of <sup>32</sup>P is Select one: a. 32 hours b. 32 days C. 89 days d. 89 weeks

The correct answer is: 32 days

The correct answer is: Altered  $\beta$  chain of haemoglobin

F	reshness of meat can be biosensored using the enzyme
5	Select one:
	a. Uricase
	b. Cholesterol oxidase
	c. Monoamine oxidase
	O d. Glucose oxidase
T	he correct answer is: Monoamine oxidase
	an endonuclease from Aspergillus oryzae that cleaves single C tranded RNA or DNA but does not cut double stranded nucleic acids
5	Select one:
	a. Nuclease AO
	O b. Nuclease H
	C. S1 Nuclease
	O d. Nuclease H
Т	he correct answer is: S1 Nuclease
	The type of electrophoresis involving the combination of gel
	electrophoresis with DNA denaturation that allows separation of DNA nolecules differing in sequence by only a single base is
5	Select one:
	a. PAGE
	O b. DGGE
	C. SDSPAGE
	O d. CGE
_	
T	he correct answer is: DGGE