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Na	ame & Signature of the Invigila	ator	PAPER-III SEPT/13/04	ICR Answer Sheet No	o.:
-			3131 1,10,04	Roll No.:	
-				Roll Number in words:	***************************************
Ti	me : 2.30 Minutesi	No of	Printed Pages	. 30	(415)
_	tructions for the Candidates	140.01	Frinted Pages	: 20	Maximum Marks: 150
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7. 8 10. 11. 12.	Rough work is to be done in the You have to return the original Is it with you outside the examination. One black ball point pen. Use iff my Calculators or log to There shall be no negative mark in case of any discrepancy in Grandles and heave of any discrepancy in Grandles and heave of the case.	CR Answer Sheet to the still Hall You are, how there or any other electronics.	inverilators at the ever allowed to onic devices is pr	ohibited.	CR sheet and test booklet on
veli	प्रकानम् नाट श्रीचनम्बद्धाः			Traffictor Aerastras 2110010 D	e unkții as final.
1.	આ પાનાની ટોચમાં દર્શાવેલી જગ્યામાં	તમારો રોલનંબર લખો.			
2.	આ પ્રશ્નપત્રમાં બહુવૈકલ્પિક ઉત્તરો ઘર	ાવતા કુલ પંચોતેર (૭૫) પ્રશ	ખો આપેલા છે. <b>બધા</b>	જ પ્રશ્નો કરજિયાત છે.	
3.	પરીશ્વાના શરૂઆતમાં ઉમેદવારને પ્રશ	નપુસ્તિકા આપવામાં આવશે	. પ્રથમ પ મિનિટ દર	મ્યાન, ઇમેદવારે પ્રશ્નપુસ્તિકા ખે	ોલી અને કરિક્રયાતપદ્મે નીચે
	3 am actual act.				
	THE CALL THE				કર વગરની કે ખુલ્લી પ્રશ્નપુરિતકા
	(ii) ક્લર યુષ્ક પર છપાયેલ ભિદેશાનું હોય, બે લાર લપાયા હોય, અનુ પ્રશ્ન પૂર્વ હોય તો ભિદેશ અન્ય કોય તો ભિદેશ આવશે. પછીથી, પ્રશ્ન પુષ્ટિલ કર્યા છો. આ ગામ પછી, પ્રશ્ન પુષ્ટિલ કર્યા છો. આ ગામ પછી, પ્રશ્ને કે પ્રશ્ન થો. ગામ પછી, કરેલ અંક્લિક કેમીટલ આપર છેલા અભાવ આ પોલ અ	જન્મ અવેશ કાઇ અન્ય કરક શક પહેલી તુરંત જ બીજ સ પડલવામાં આવશે નહીં કે છે ટેસ્ટ યુન્તિકા નંબર પ્રાપ્ત જય M. (B), (C) અને (D) આપલ	ાવય અથાત મહાપુલ (શે પ્રશ્નપુરિતા) મેળ ઉવધારાઓ સમય પ્ર (બ પંત્રકમાં ભ્રષ્નો અ તમાં આવેત છે. પ્રસંદ	કારલ જામીયુક્ત પ્રખ્યવૃક્તિકાર વી લેવી. આ ગાટે ઉમેદવારને પાં પ્રઆપવામાં આવશે નહીં. પ્રઆપવામાં આવશે નહીં.	ર્લીકારવી નહીં. એને જે ખાંધીપુકત ચમિતિટનો સમયગામો આપણમાં
	audi thri	A His da	ાત સાત લખવા	A same	
	આ પ્રશ્લપૃક્તિકાના પ્રશ્નોના જવાબ અ		The desired with a sect N	<b>ે અથ</b> વા	LA
, \	न्तरंद-ना ना स्वास्ताना मान्यदह यह	11	ac annual normal re	પર–૩ લખલા વભાગમાં જ લખ	યા.
	આ પ્રશ્નપશ્ચિકાની અંતે આપેલ પાને ર	5.0440.0			
	પરીક્ષા સમય પુરો થઈ ગમ ઘણી ઓરી નહીં. પરીક્ષા પુર્શ થયા ભાર ઇમેદવાર માત્ર કાળી પેનાકાળી બોલ પેન વાપરની	જિલ્લા (CR જવાલ પંત્રક જે) પ્રસ્તુપક્ષિણ તથા (CR જવા	તે નિરીશકને કરજાય પંપાનીની કૃષ્ણિકેટ કે	ત સોપી દેવું અને કોઈપણ સંજોગો યો પોતાની સાથે લઈ જઈ શકે છે.	માં પરી <b>લા</b> ખંડની બહાર જઈ શકશે
	कर माना बन्धानमा नामा मन वास्तरक				

10

કલ્લાવું કર અને અન્ય જેલાં કર્યાના મહાના ઉપયોગ કરવાની મનાઈ છે. બોરા જ્યાર માટે ને કેટિલ સુધાકન પ્રયાનની પ્રાપ્ય પુરત્યાલના માઈ પ્રયત્નના અનુવાદ અંગે કોઈ વિવાદ/મતભેદ જણાય તો અંગ્રેજી વર્ઝન યોગ્ય ગણાશે.

## LIFE SCIENCES

## PAPER - III

Note: This paper contains SEVENTY FIVE (75) Multiple-choice questions, each question carrying TWO (2) marks. Attempt All questions.

1.	Which of the following modifications is found in the glutamate residue in protein?
	(A) Acetylation
	(B) Methylation
	(C) Carboxylation
	(D) Phosphorylation
2.	Which of the following statements is correct?
	(A) Solubility of proteins at isoelectric point is maximum
	(B) Solubility of proteins at isoelectric point is minimum
	(C) Solubility of proteins is independent of isoelectric point
	(D) Solubility of proteins is dependent on their size
3.	Which of the following statements is false?
	(A) All biological processes have negative ΔG°
	(B) Biological processes with positive $\Delta G^\circ$ can only occur upon coupling with another process with higher negative $\Delta G^\circ$
	(C) $\Delta G^{\circ}$ varies with the concentrations of biological constituents of the process
	(D) $\Delta G^{\circ}$ does not describe the energetics of biological process
Life	Sciences-III 3 [P.T.O.]

<b>4</b> .	Wh	ch of the following statements is correct?	
	(A)	Cellulose is glucose polymer of a 1 - 4 linkage	
	(B)	Starch is glucose polymer of $\beta$ 1 – 4 linkage	
	(C)	Amylopectin has large number of β 1 – 6 linkage	
	(D)	Cellulose is glucose polymer of $\beta$ 1 – 4 linkage	
5.	Wh	ich of the following enzymes have common proteins?	
	(A)	Pyruvate carboxylase and PEP carboxylase	
	(B)	Pyruvate carboxylase and acetyl CoA carboxylase	
	(C)	Pyruvate dehydrogenase and 2-ketoglutarate dehydrogenase	$\boldsymbol{c}$
	( <b>D</b> )	Phosphofructokinase and pyruvate kinase	W
6.	Wh	ich of the following is correct for the B-DNA structure?	
	(A)	Sugar pucker is 2' endo and glycoside bond is syn	
	(B)	Sugar pucker is 3' endo and glycoside bond is syn	
	(C)	Sugar pucker is 2' endo and glycoside bond is anti	
	(D)	Sugar pucker is 3' endo and glycoside bond is anti	
7.	Wh	ich of the following molecules is least likely to cross a cellular mer	nbran
	by	simple diffusion ?	
	(A)	Carbon dioxide (B) Nitrogen	
	(C)	Oxygen (D) Water	
Life	Sci	ences-III 4	

8.	The number of nuclear pores on n	uclear 1	nembrane depends on :	
	(A) Size of a cell	(B)	Transcriptional activity of	a cell
	(C) DNA content of a cell	(D)	Size of a nucleus	В
9.	The lowest level of chromosome or	ganizati	on is:	
	(A) 30 nm fiber	(B)	Nucleosome	
	(C) Solenoid	(D)	Chromosomal loops	В
10.	What effect would you expect if ge	ne expr	ession of lac operon is comp	oletely
	repressed ?			
	(A) Cell will become more efficient	in ene	rgy production	
	(B) Lactose will accumulate and be	ecome t	oxic	
	(C) Lactose will not be converted in	into ind	ucer	
	(D) Lactose will be converted into	glucose	С	
11.	Which specific protein is formed in	G2 pha	ase ?	
	(A) Histone	(B)	Polymerase	
	(C) Scaffold protein	(D)	Condensin	D
12.	Golgi apparatus is not found in :			
	(A) Nerve cell	(B)	RBC.	
	(C) Germ cell	(D)	Gland cell	В
Life	Sciences-III	5	· [P	.T.O.]

13.	Which of the following is true for the separation of proteins by gel filtration
	chromatography?
	(A) Proteins with low molecular weight comes out first
	(B) Proteins with high molecular weight comes out first
	(C) Proteins entrapped into the pores of the gel matrix comes out in the increasing
	order of size
	(D) Proteins entrapped into the pores of the gel matrix comes out in the
	decreasing order of size
14.	Which of the following bond(s) does not play a role in the folding of common
	polypeptides ?
	(A) Hydrogen bonds between side chains
	(B) Hydrogen bonds between backbone
	(C) Salt bridges
	(D) Disulfide bonds
15.	Which of the $\phi$ and $\psi$ values of amino acid residues are sterically allowed according
	to Ramachandran plot ?
	(A) Both φ and ψ values are negative
	(B) Both φ and ψ values are positive
	(C) The value of $\phi$ is negative and $\psi$ is positive
	(D) The value of $\phi$ is positive and $\psi$ is negative
Life	Sciences-III 6

16.	Which of the following sequence of protein	ins is involved in the initiation o	f bacterial
	DNA replication ?		
	(A) Dna A, Dam A, Gyrase, Primase		
	(B) Dam A, Dna A, Gyrase, Primase		
	(C) Gyrase, Dna A, Dam A, Primase		D
	(D) Dna A, Gyrase, Dam A, Primase		
17.	Which of the following bacterial gene	s has a unique promotor reg	ion ?
	(A) Citrate synthase	(B) tRNA	
	(C) rRNA	(D) Flagellin	D
18.	During the initiation of bacterial tra	nscription the o factor does	not bind
	to:		
	(A) -10 consenses sequence		
	(B) -35 consenses sequence		
	(C) The region between -35 and -10	consenses sequence	
	(D) UP element		D
19.	Which of the following statements ab	out a protective immune res	ponse to
	intracellular bacterial pathogens is no	ot true ?	30
	(A) It involves an antibody response		
	(B) It involves a cell mediated immur	ne response	
	(C) It may involve CTLS		
	(D) It may involve Th <sub>1</sub> type of cells	The Street and St.	A
ife	Sciences-III 7		PTOI

20.	Cytokines that are the soluble medi	ators	of immune response are :
	(A) produced by only T helper cells		
	(B) produced by only B cells		
	(C) produced by only macrophages		
	(D) produced by macrophages, B an	d T c	ells D
21.	The cell junction that is responsible cells is:	for ma	intaining the polarity of epithelia
	(A) gap junctions	(B)	desmosomes
	(C) tight junctions	<b>(D)</b>	hemi desmosomes
22.	In G-protein coupled receptors, the sub is the following:	unit of	G-protein that has GTPase function
	(Α) Gα	(B)	Сβ
	(C) Gαβ	(D)	$G\gamma$
23.	Conversion of a proto-oncogene to an considered as:	oncog	ene that results in cancer may b
	(A) loss of function mutation	<b>(B)</b>	gain of function mutation
	(C) activation of gene	(D)	inactivation of gene B
24.	Bacteria may use the following for e	ntry i	nto host cells, except :
	(A) TLR	(B)	EGF-R
	(C) Mannose receptor	(D)	Scavenger receptor
Life	Sciences-III 8		D D

<b>25</b> .	Fate mapping with vital dye for	amphibia	n eggs was done by:	
	(A) Vogt, 1929	(B)	Mangold, 1931	
	(C) Spemann, 1930	(D)	Von Boer, 1927	A
26.	Haploid nuclei are found in:			
	(A) Microspores and microspore	mother ce		
	(B) Microspore mother cell and	megaspore	mother cell	
	(C) Microspore mother cell and	megaspore		
	(D) Megaspore and microspore			D
<b>27</b> .	The complete meiotic division occu	rs exactly	during somatogenesis l	etween the
	stages of :		40 i - 100	
	(A) Resting and dividing sperma	ntogonia		
	(B) Primary and secondary speri	matocytes		
	(C) Primary spermatocyte to spe	rmatic lev	rel	C
	(D) Spermatid to sperm			
28.	Apical initials are present in :			
	(A) Root and shoot apex	(B)	Shoot and leaf apex	
	(C) Bud apex	( <b>D</b> )	Leaf apex	$\boldsymbol{A}$
29.	Differentiation process in life cyc	le of anin	nals is a/an :	
	(A) Specialised state	(B)	Unspecialised state	
	(C) Common state	(D)	Uncommon state	$\boldsymbol{A}$
Life	Sciences-III	9		[P.T.O.]

30.	The main difference between necrosis	and	apoptosis is not:
	(A) Vesicular traffic	(B)	DNA fragmentation
	(C) No change in cellular organelle	(D)	Apoptotic bodies
31.	In senescent leaves, the first in the	break	down pathway of chlorophyll is
	(A) Removal of magnesium	<b>(B)</b>	Opening of porphyrin structure
	(C) Removal of phytol chain	(D)	Modification of tetrapyrrole
32.	The reaction centre chlorophyll of photo	syste	m I absorbs maximally at
	in its reduced state.		
	(A) 680 nm	(B)	870 nm
	(C) 620 nm	<b>(D)</b>	700 nm D
33.	The regulation of the distribution of fixed	d carb	on into various metabolic pathways
	is known as :		
	(A) Distribution	<b>(B)</b>	Allocation
	(C) Division	(D)	Gradation B.
34.	A high Respiratory Quotient (RQ) val	lue is	indicative of:
	(A) Absence of respiration	(B)	Aerobic respiration
	(C) Anaerobic respiration	(D)	Inhibition of respiration
35.	Phototropins, the photoreceptors for p	hotot	rophic bending in seedlings are
	(A) Terpenes	(B)	Flavoproteins
	(C) Lipids	(D)	Alkaloids B
Life	Sciences-III 10		

36.	The only plant growth hormone t	hat has	been transported pa	artly is:
	(A) Auxin	(B)	Abscisic acid	
	(C) Gibberellic acid	(D)	Ethylene	A
37.	The process of differentiation of sp	ermatozo	oa from a spermatid	is known as:
	(A) Spermeiogenesis	(B)	Spermatogenesis	
	(C) Spermiation	(D)	Spermatolysis	<b>A</b>
38.	Classic haemophilia is due to defic	cit of :		
	(A) Factor IV	(B)	Factor VIII	
	(C) Factor IX	(D)	Factor XI	В
39.	Inhibitory neurotransmitter is:			
	(A) Ach	(B)	Dopamine	
	(C) Serotonin	(D)	GABA	D
<b>4</b> 0.	Function of portal veins is to deliv	ver ;		
	(A) Releasing hormones	(B)	insulin	
	(C) Octapeptides	(D)	Neurotransmitters	<b>A</b>
41.	The type of placenta in human is			
	(A) Chorial	(B)	Desmochorial	
	(C) Haemochorial	(D)	Syndesmochorial	C
Life	Sciences-III	11		[P.T.O.]

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<b>42</b> .	Example for ureotelic animals are:			
	(A) Protozoan, Echinoderm, Fish			
	(B) Amphibian, Arthropod, Fish			
	(C) Amphibian, Fish, Protozoan		D	
	(D) Fish, Amphibian, Mammal		9	
43.	In a test-cross of a pea plant heteroz	ygous	for the recessive allele, wrin	kled
	what fraction of the progeny would b	e wri	nkled ?	
	(A) one third	(B)	one half	
	(C) one fourth	(D)	three fourth	
44.	Two genes A and B are 10 cm apart	. Wha	at percentage of the progeny	will
	be aabb when a cross is made between	en tw	o individuals both with the g	geno-
	type $\frac{AB}{ab}$ ?			
	(A) ~10%	(B)	~20%	
	(C) ~40%	(D)	-80%	
<b>4</b> 5.	The process by which a bacterial cell pi	cks uj	exogenous pieces of DNA dire	ectly
	from the media and incorporates it in	ito ita	s genome is called:	
	(A) conjugation	(B)	transduction	
	(C) transformation	(D)	translocation C	
Life	Sciences-III 12			

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<b>46</b> .	Αl	lod score is :			
	(A)	measure of genetic diversity	in a pop	ulation	
	(B)	measure of interference of or	ne crossov	er with another	
	(C)	measure of the number of h	uman chr	omosomes in a hybrid	cell
	(D)	measure of the probability of	f linkage	between two loci	D
47.		ich of the following diseases c mutation originates in somat		cribed as a genetic dis	ease where
	(A)	Huntington's disease	(B)	Cystic fibrosis	
	(C)	Cancer	(D)	Sickle-cell anemia	C
48.	Cla	ssification of which animals dep	ends on th	e characteristics of the c	ytoskeleton
	pre	sent:			
	(A)	Porifera	(B)	Platyhelminths	
	(C)	Urochordata	(D)	Fishes	A
<b>4</b> 9.	The	disease "Elephantasis' is cau	sed by :		
	(A)	Wuchereria	<b>(B)</b>	Ascaris	
	(C)	Fasciola	(D)	Schystosoma	A
<b>50</b> .	APO	G classification is essentially:			
	(1)	Cladistics	(2)	Molecular taxonomy	
	(3)	Numerical taxonomy	(4)	Phylogenic in nature	
	(A)	(1)	(B)	(1) + (2)	
	(C)	(1) + (2) + (3)	(D)	(1) + (2) + (4)	D
Life	Scie	nces–III	13		[P.T.O.]

51.	Symbiosis type of association between animals can be seen in:				
	(A) Hermit crab and Sea anemone				
	(B) Hermit crab and Sycon				
	(C) Sea anemone and Unio		A		
	(D) Unio and Sycon				
52.	Polymorphism is seen mainly in the	phylu	um of :		
	(A) Coelenterata	(B)	Annelida		
	(C) Arthropoda	( <b>D</b> )	Porifera		
53.	According to nomenclatural type method	l Ang	iosperms should be correctly named		
	as ;				
	(A) Embryophyta	(B)	Maganoliophyta		
	(C) Spermatophyta	(D)	Magnoliopsida  B		
54.	A food chain always starts with:				
	(A) Nitrogen fixation	(B)	Respiration C		
	(C) Photosynthesis	( <b>D</b> )	Decay		
55.	Which one of the following is the cor	rect f	food chain?		
	(A) Algae — Daphnia — Dragonfly n	ymph	n — Newt — Grass snake		
	(B) Daphnia — Dragonfly nymph —	Newt	— Algae — Grass snake		
	(C) Grass snake — Newt — Dragonf	ly ny	mph — Daphnia — Algae		
	(D) Newt — Grass snake — Dragonf	ly ny	mph — Algae — Daphnia		

## Print Less... Save Paper... Save Trees...

56.	In an aquatic ecosystem, the depth	to whi	ch light penetrates is	called :
	(A) Aphotic	(B)	Photic	10
	(C) Euphotic	(D)	Non-photic	В
57.	Biomass produced by plants in ocea	ans acco	ounts for :	
	(A) 85%	(B)	75%	
	(C) 65%	(D)	58%	A
58.	Species diversity is higher in ecosy	stem ex	periencing:	
	(A) No disturbance	(B)	Moderate disturbance	
	(C) High disturbance	(D)	Drastic disturbance	D
<b>5</b> 9.	Who is the author of the book 'Ori	gin of S	Species' ?	
	(A) Mendel	(B)	Lamarck	
	(C) Darwin	(D)	Weisman	C
60.	The organ which was once function	al and	well developed in an o	organism's
	evolutionary past but has become r	educed	or non-functional now	is called :
	(A) Homdogous organ	(B)	Analogous organ	ig in
	(C) Primordial organ	(D)	Vestigial organ	D
61.	Cenozoic era refers to the age of:			
	(A) Invertebrates	(B)	Fishes	
	(C) Birds	(D)	Mammals	D
Life	Sciences-III 1	5		[P.T.O.]

62.	The	e oldest microfossil found so far of	age	3.5 billion years a	go is :	
	(A)	Cyanobacteria	(B)	Coacervates		
	(C)	Eobionts	(D)	Microspheres		A
63.	Wh	ich of the following times was ma	rked	by the largest ma	ss extino	ction of
	life	in the history of earth?				
	(A)	The end of Devonian				
	(B)	The end of Cretaceous				
	(C)	The end of Permian				C
	(D)	The end of Triassic				
64.	A cl	inical isolate of <i>Pseudomonas</i> is resis	tant t	o penicillins. Which	of the fo	llowing
	can	be used to overcome the resistan	ce ?			
	(A)	β-glucanase inhibitor				
	(B)	β-glucosidase inhibitor				
	(C)	β-lactamase inhibitor				
	(D)	β-galactosidase inhibitor			C	
65.	B-l <sub>3</sub>	mphocytes that are responsible fo	r pro	ducing antibodies	do so :	
	(A)	Only after exposure to the corres	pondi	ng antigen		
	(B)	Even before exposure to the corre	espon	ding antigen		
	(C)	Only after it interacts with an ar	ntiger	n presenting cell		
	(D)	When (A) and (C) take place			В	
Life	Scie	ences–III 16				

66.	Microorganisms are diverse as regards to their ability to produce metabolites.			
	Which of the following is a source of	f micr	obial cellulose?	
	(A) Acetobacter xylanicum			
	(B) Acetobacter diazotropicus			
	(C) Azotobacter chroococcum		$oldsymbol{A}$	
	(D) Aeromonas maltophila			
67.	Rhizoremediation of pollutants is bas	ed on	microorganisms associ	iated with:
	(A) Bulk soil	(B)	Root soil	
	(C) Spermosphere	(D)	Phyllosphere	В
68. The first attempt at gene therapy in humans was using the				lowing gene
	to overcome SCID :			
	(A) gene for adenosine deaminase			
	(B) gene for tyrosinase			
	(C) gene for recombinase			<b>A</b>
	(D) recombination activating gene		a ida adala	
69.	Which of the following may by used a	s a co	emponent of biosensor	based on ${ m O_2}$
	consumption ?			
	(A) glucose oxidase	(B)	superoxide dismutase	9
	(C) catalase	(D)	(A) and (C)	A
Life	Sciences-III 17			[P.T.O.]

70.	The molecular mass of a protein determined by gel filtration is 120 kDa. When
	its mass is determined by SDS-PAGE with and without $\beta$ -mercaptoethanol, it
	is only 60 kDa. What is the most probable explanation for these observations?
	(A) Protein is a dimer in which two identical chains are cross-linked by disulfide
	bond(s)
	(B) Protein is a monomer of molecular mass 60 kDa but it is excluded from
	the gel matrix due to strong repulsion between the gel matrix and the
	protein
	(C) Protein is a monomer but it is nicked into half its size by SDS
	(D) Protein is most likely to be composed of two subunits having identical
	molecular mass
71.	The following statement about radio immuno assay technique is not true:
	(A) It is based on antigen-antibody interaction
	(B) The enzyme is radio labelled
	(C) The antigen is radio labelled
	(D) It is a competitive assay
<b>7</b> 2.	Which of the following pictorial representations enable us to study relationship
	between variables ?
	(A) Histogram (B) Pie-chart
	(C) Bar diagram (D) Linear diagram

18

Life Sciences-III

73.	In t	In the experiments conducted by Meselson and Stahl for demonstrating sem			
	con	servative nature of DNA repli	cation, th	e following isotope w	as used :
	(A)	<sup>15</sup> N	(B)	<sup>14</sup> C	
	(C)	3 <sub>H</sub>	(D)	32 <sub>P</sub>	A
74.	Med	hanical fixation in microscopy	involves	the use of:	
	(A)	coagulant fixative			
	(B)	non-coagulant fixative			
	(C)	both (A) and (B)			C
	(D)	liquid nitrogen			
<b>7</b> 5.	Whi	ch of these techniques can be	e used for	single cell recording	?
	(A)	CAT			
	(B)	Patch clamp technique			
	(C)	fMRI technique			В
	( <b>D</b> )	ECG			
Life	Scien	nces-III	19		[P.T.O.]