

Paper Code: 20

sr. No. 2296

LIFE SCIENCES [Paper-III] tor OMR Sheet No.:.

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ľin	ne : 2½ Hours]						[Ma	ı Xigo	um l	Mark	s:15
Vu	mber of Pages in this Booklet : 16		N	umber	of Q	ues	tions	s ja t	his l	Book	let:7
	Instructions for the Candidates	į	· .	परीध	भार्थिय	गें के	लिए	्निर्दे	श		
١.	Write your roll number in the space provided on the top	1.	पहले पृष्ठ वे	कपर नि	यत स्था	न पर	अपना	स्रोल न	ग्बर वि	लेखिए।	
	of this page.	2.	इस प्रश्न-प								
•	This paper consists of seventy five multiple-choice type	1			-					 .	
	of questions.	3.	परीक्षा प्रहरम								
	At the commencement of examination, the question	1	मिनट आप								त जाच्च
	bookelt will be given to you. In the first 5 minutes, you are requested to open the booklet and compulsorily	1	लिए दिये ज								
	examine it as below:		(i) कवर	पृष्ठ पर र	छपे निर्दे	र्दशानुस	सर प्रश	श्न-पुर <u>ि</u>	तका व	के पृष्ठ	तथा प्रश
	(i) Tally the number of pages and number of questions			मंख्याको							
	in the booklet with the information printed on the	l		का जिनमें						•	
	cover page. Fault booklets due to pages/questions	İ									
	missing or duplicate or not in serial order or any			हों अर्थात							
	other discrepancy should be got replaced			तथा उसी							
	immediately by a correct booklet from the		प्रश्न-	पुस्तिका व	ले लें।	इसके '	लिए ३	आपकी	पाँच	मेनट दि	ये जायेंगे
	invigilator within the period of 5 minutes.	l	उसके	- बादन त	रो आपर	को प्रक	म-परि	तका र	अपस र	ली जाये	गी और
	Afterwards, neither the Question Booklet will be			।पको अहि							
	replaced nor any extra time will be given.		-								. wG
	(ii) After this verification is over, the OMR Sheet		(ii) इस व			K 42	ion on	; sp.H. 4	संख्या	इस प्रश	1-41401
	Number should be entered on this Test Booklet.			कित कर			_				
	Each item has four alternative responses marked (A), (B), (C) and (D). You have to darken the oval as indicated	4.	प्रत्येक प्रश्न	के लिए	वार उत्त	र पत्रव	কুবি	ज़्ल्य (∄	į), (E	3), (C)	तथा (L
	below on the correct response against each item.		दिये गये हैं					ावृत्त व	ता पन	स भर	कर कार
	Example: A B D		करना है जैर				11. 6	<u>√</u>			
	where (C) is the correct response.		उदाहरण :			•		(D)	,		
	Your responses to the items are to be indicated in the	١.	जबकि (C)					_ & _	- حـ .		
	Answer Sheet given inside the Paper I Booklet only. If	5.	प्रश्नों के उ	तर कवल	प्रश्नप	ার <u>র</u> ব	∌ अन्द	स दिय	गय र —> -	ऽसर-पः	शकंपर ह
	you mark at any place other than in the ovals in the		अंकित करन	। ह। याद	आप व	ऽत्तर प	।त्रक्ष प	र ।दय	गयद अ.⊸	।ववृत्तं व	ক সংলা
	Answer Sheet, it will not be evaluated.	l	किसी अन्य	स्थान पर	र उत्तर	चहन	गक्त	करत्।	ह, ता	उसका	मूल्याक
	Read instructions given inside carefully.		नहीं होगा।		۔۔ دہ			٠.			
	Rough Work is to be done in the end of this booklet.	6.									
	If you write your name or put any mark on any part of		कच्चा काम								
	the test booklet, except for the space allotted for the	8.								भान	शान क
	relevant entries, which may disclose your identity, you		हैं तो परीक्षा								
	will render yourself liable to disqualification.	9.	आपको परी								
	You have to return the test question booklet and OMR	1	निरीक्षक मह							। समापि	तं के ब
	Answer sheet to the invigilators at the end of the	1	उसे अपने स								
	examination compulsorily and must not carry it with you	10.	परीक्षा समा			OME	२ उत्तर	–पत्रक	की व	कार्बन व	नपी अप
	outside the Examination Hall.	1	साथ ले जा								
U.	Students can take home carbon copy of this OMR		केवल नीले/								
	answer sheet.	12.	किसीभी प्र	कार का	संगणव	हं (के	लकुले	टर) य	। लाग	टिवस्त	आदि व
1.	Use only Blue/Black Ball point pen.	1	प्रयोग वर्जित				-				
2.	Use of any calculator or log table etc., is prohibited.	1 13.	गलत उत्तरों		होई अंव	क कारे	टे नहीं	जाएँगे '	1		

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Note नोट	e: • This paper contains Seventy Five (; • इस प्रश्नपत्र में पिच्हेत्तर (75) बहुविव	75) multiple choice questions, each question car रुत्पीय प्रश्न हैं। प्रत्येक प्रश्न के दो (2) अंक हैं।	rying two (2) marks.
1.	Lipoproteins are those proteins wh	ich:	
	(A) Are readily soluble in lipids		
	(B) Are present between the lipid b	oilayers	
	(C) Can easily associated with lipid	ds	
	(D) Are conjugated proteins having	g lipids as their prosthetic groups	
2.	Te length of DNA fibre associated A^{i}):	with a nucleosome is about (average si	ze of a base = 3.4
	(A) 200 nm	(B) 147 nm	
	(C) 50 nm	(D) 68 nm	
3.	The least conserved among the fiv	e histones involved in formation of nucl	eosomes is:
	(A) H ₁	$(B) H_2A$	
	.(C) H ₃	(D) H ₄	
4.	The molar concentration of H ⁺ in a	a solution with pH 5 will be:	
	(A) 5	(B) 5×10^{-1}	
	(C) 10 ⁻⁵	(D) 5×10^{-5}	
5.	The bond p between amino acids i	n a protein in known as:	
	(A) Glycosidic	(B) Phosphodiester	•
	(C) Ionic	(D) Peptide	
6.	How many atoms of oxygen will b	e there in 4.5 g of water ? (Avogadro nur	mber = 6.023×10^{23})
	(A) 1.5055×10^{23}	(B) 3.011×10^{23}	
	(C) 0.75275×10^{23}	(D) 6.022×10^{23}	
7.	The total number of proto filamer	ts present in nine doublets of a flagella	is:
	(A) 207	(B) 229	
	(C) 260	(D) 233	**
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8.	Apoplastic movement of water in plants	does not occur through:
	(A) Cell walls	(B) Intracellular air spaces
	(C) Plasmodesmata	(D) Xylem vessels
9.	The desmotubule a structural component	of plasmodesmater is made up of:
	(A) Membranes	(B) Microtubules
	(C) Microfilaments	(D) Intermediate filaments
10.	. A plasmid that can integrate reversibly w	rith chromosome of its bacterial host and multiplies
	as an integrated part of the chromosome	and is also capable of multiplying independently of
	the chromosome is known as:	and is also capable of multiplying independently of
	(A) Episomes	(B) Exosomes
	(C) Endosomes	(D) Mesosomes
11.	Giant chromosomes produced by interph many identical chromatids arranged side by	ase replication without division and consisting of by side in a lable like pattern are known as:
	(A) Lampbrush chromosome	(B) Polytene chromosomes
	(C) Isochromosomes	(D) Polychromosomes
12.	(1) fibosomes (2) centriole, (3) mesosome	t matches between the stems of column A having and (4) Golgi bodies and Column B comprising acterial DNA anchorage (c) microtubule organizing
	(A) 1-d, 2-c, 3-b, 4-a	(B) 2-d, 1-c, 3-b, 4-a
	(C) 1-b, 2-c, 3-d, 4-a	(D) 1-a, 2-c, 3-b, 4-d
13.	The drug tetracylin interfere with:	
((A) Peptidyl transferases	(B) Aminoacyl-tRNA binding
((C) Cell wall synthesis	(D) Translocation
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14. What will h	nappen if lac operator	or from region of DNA is deleted:					
(A) Cells w	(A) Cells will express β-galactosidase, permease and transacetylase even in absence of lactose						
(B) Cells v		alactosidase, permease and transacetylase even in absence of					
(C) Cells wi	ill express β-galactos	osidase and permease in absence of lactose					
(D) None							
15. What percer	ntage of RNA in mos	ost bacterial cells is mRNA:					
(A) Less tha	an 5%	(B) 10-15%					
(C) 35-40%		(D) 50-60%					
16. Which of the	e following is not dir	irectly related to gene regulation:					
(A) Acetylat	tion of histones	(B) Glycosylation in the endoplasmic reticulum					
(C) Splicing		(D) Silencer					
17. In bacteria, v	which of the followin	ing is not an iducer of an operon:					
(A) Allolacto	ose	(B) IPTG	,				
(C) Tryptoph	han	(D) L-arabinose	•				
18. Select the ite	em having all the corn	prrect matches between column A and column B:					
Column	1 A	Column B					
P. Transger	nic	1. Catalytic RNA					
Q. Proteom	e °	2. Polyadenylate polymerase					
R. Ribozym	ne	3. Complement of a protein expressed by					
		a genome					
S. Poly-A-t	ail	4. A cell having foreign gene					
(A) P-3, Q-2,	, R-4, S-1	(B) P-2, Q-1, R-4, S-3					
(11) 1 5, 2 2,							

19. Select the correctly matched option:

Column A

Column B

1. Fibronectin

- P. General name for long, linear highly charged polysaccharides composed of a repeating pair of sugar, one of which is always an amino sugar that is found covalently linked to a protein core in the extracellular matrix
- Q. Type of collagen molecule that assembles into ropelike structures and larger cable like bundles
- 2. Elastin

3. Fibrillar collagen

- R. Extracellular matrix protein that binds
 to cell surface integrins to promote
 adhesion of cells to the matrix and to
 provide guidance to migrating cells
 during embryogenesis
- S. Hydrophobic protein that forms
 extetensible fibers that give tissues
 their stretchability and resilience
 - 4. Glycosaminoglycan (GAG)

- (A) P-1, Q-4, R-3, S-2
- (B) P-2, Q-1, R-4, S-3
- (C) P-4, Q-3, R-1, S-2
- (D) P-3, Q-2, R-4, S-1
- 20. Methotrexate a common cancer chemotherapeutic agent is:
 - (A) an antimetabolite drug
- (B) an alkylating agent

(C) an antibiotic

(D) a topoisomerase inhibitor

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21.	An action potential is a brief large electrical d plasma membrane caused by :	epolarization and repolarization of the neuronal	
	(A) Inward movement of potassium ions and	subsequent outward movement of sodium ions	
	(B) Inward movement of sodium ions and su	bsequent outward movement of potassium ions	
	(C) Short and pulsed movement of positive ions outwards	ly charged ions inward and negatively charged	
	(D) Specific inward movement of Ca^{2+} ions down the axon	followed by unidirectional movement of charge	
22.	Which subunit of G-protein generally stimula	ates neighbouring pores and enzymes:	
	(Α) α	(B) β	
	(C) γ	(D) β and γ	
23.	The cells involved in allergic reactions, had containing histamines are known as:	aivng surface receptor for IgE antibodies and	
	(A) Neutrophils	(B) Monocytes	
	(C) Basophils	(D) Dendritic cells	
24.	Diacylglycerols, cAMP and calcium ions tha	t stimulate protein kinases are known as:	
	(A) First messenger	(B) Second messengers	
	(C) Neurotransmitters	(D) Agonists	
25.	The cytoplasmic male sterility in following proteins in :	plants is caused by the expression of abnormal	
	(A) Mitochondria	(B) Chloroplast	
	(C) Peroxisome	(D) Nucleus	
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26	. How is the ABC model for floral identification homeotic gene function derived from studi	ty in Arabidopsis reminiscent of the models for es in Drosophila?
	(A) In both organism, homeobox genes s organisms	specify the identity of the region's of the mature
	(B) In both organisms, one homeotic gene in to domains more central to that of the contributing unambiguous identities to	is expressed at the two ends, a second expressed ne first, and a third expressed more centrally, thus all regions of the organism
	(C) The key responsibility of the homeotic	genes is patterning of dorso-ventral symmetry
	(D) In both organisms, the homeotic gene genes present that is critical in unambig	s interact, so that it is often the combination of guously specifying structures in adult.
27.	Sperm storage area in Caenorhabditis ekgan	ns is called:
	(A) Uterus	(B) Spermatheca
	(C) Testis	(D) Distal tip
28.	In Xenopus and most vertebrates the factor of meiosis is:	that arrests the secondary oocyte in metaphase II
	(A) Cytostatic factor	(B) Vitellogenisis factor
	(C) Mitosis promoting factor	(D) Tumour neuosis factor
29.	The three genes that control the development because they control zones of development by binding to:	ent of flower parts appear to be homeotic genes and the gene products regulates gene expression
	(A) Transcription factor	(B) Elongation factor
	(C) DNA directly	(D) mRNA directly
30.	The portion of a developing limb bird where	most hox genes are expressed is described as:
	(A) Proximal anterior	(B) Distal anterior
	(C) Proximal posterior	(D) Distal posterior
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	(A) ATP will not be synthesized	(B) NADPT is not reduced
	(C) PS I will not be active	(D) PS II will be active
32.	The alteration of plant growth pattern in resp	onse to a mechanical stimuli is known as:
	(A) Heliotropism	(B) Thigmotropism
	(C) Nostic response	(D) Mechanotactio
33.	Oxygen poisons the enzyme nitrogenase, there	fore in heterocysts present in some cyanobacteria:
	(A) Photosystem I is absent	(B) Photosystem II is absent
	(C) Both are absent	(D) Both are present
34.	Which element is essential for the synthesis	of plant growth regulator Indole-3-acetic acid?
	(A) Zinc	(B) Iron
	(C) Calcium	(D) Sodium
35.	The hormone associated with the closure of s	stomata during drought is :
	(A) Indole-3-acetic acid	(B) Gibberellic acid
	(C) Abscisic acid	(D) Kinetin
36.	The immediate precursor of elhylene in plant	s is:
	(A) 1-aminocyclopropane-1-carboxylic acid	(B) S-adenosylmethionine
٠.	(C) Aminoelhoxy-vingl glycine	(D) Aminooxyacetic acid
37.	Electrical synapase are characteristic of:	•
	(A) Vertebrates	(B) Invertebrates
`	(C) Lions	(D) Electric fish
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31. If the light of wavelengths beyond 680 nm is only available for excitation :

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38.	Functions of hypothalamus are:	· v
	(A) Autonomic and neuroendocrine control	(B) Coordination of movement and memorate
	(C) Motor control and emotion	(D) Higher cognitive function
39.	A person with defective otolith sensory rece	ptors:
	(A) Is deaf	(B) Has a difficult time in maintaining ba
N.	(C) Cannot detect external temperature	(D) Has a faulty sense of smell
40	Autoimmune diseases are product when:	
, .	(A) immune system fails to to elf anti	genes
<i>y</i> -	(B) immune system becomes	
•	(C) immune system starts fight with pathogo	enes
	(D) All of the above	
41.	The cardiac cycle consists of systole and dia	astole, the ventricles contract at:
	(A) Diastole	(B) Systole
	(C) Both at systole and diastole	(D) Neither at systole nor at diastole
42.	Select the option that represents all the corre	ect matches between items of colum A and
	Column A	Column B
•	1. Animal	1. Triploblastic
	2. Radiata	2. Sponges
	3. Bilateria	3. Hydra
	4. Cnidaria	4. Insects
	5. Open circulatory system	5. Heterotrophs
	6. Choanocytes	6. Diploblastic
	(A) 1-5, 2-6, 3-1, 4-3, 5-4, 6-2	(B) 1-6, 2-5, 3-1, 4-3, 5-4, 6-2
•	(C) 1-5, 2-6, 3-3, 4-1, 5-4, 6-2	(D) 1-5, 2-5, 3-1, 4-3, 5-2, 6-4
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	(A) Turner syndrome	(B) Down syndrome	
	(C) Philadelphia chromosome	(D) Klinefelter syndrome	
44.	A large number of hybrid diploid cells are	ising from the mating of two alaning	e-requiring
	mutants of E. coli can synthesize their own		
	phenotype most likely arose as a result of:	A A	**;
	(A) back mutations	(B) cis complementation	
	(C) trans complementation	(D) transposable elements	
45.	The type of gene regulation governing the t		ed as:
	(A) Positie inducible	(B) Negative inducible	* *-
	(C) Attenuation	(D) Feedback inhibition	
46.	1 how that	t does not involve whole sets of chron	nosómes):
	(A) Alloploidy	(B) Aneuploidy	
	(C) Triploidy	(D) Euploidy	
47	. The distances between bacterial genes as de	termined from interrupted conjugation	experiments
	are measured in units of:		
	(A) Recombination	(B) Micrometer	
	(C) Percentage of genome	(D) Minutes	
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48.	A type of allelic interaction in which a phen	otype of a heterozygote is outside the phenotypic
	units of the corresponding homozygotes is c	alled ·
	and of the corresponding nomozygotes is c	and.
	(A) Variance	(B) 0
	(A) Variance	(B) Over dominance
<i></i>		
	(C) Heterosis	(D) Continuous variation
49.	Chemotrophic bacteria are:	
	(A) Primary consumer	(B) Primary producer
•	(C) Secondary consumer	(D) Decomposer
	Court of the second	, , , , , , , , , , , , , , , , , , , ,
40	What abarestoristics are community and to	44'C-41-1'
30.	What characteristics are commonly used to i	dentity the blomas of earth?
	(A) Temperature	(B) Precipitation
	(C) Vegetation	(D) Temperature and Precipitation only
5 1.	Succession following a volcanic eruption is a	reffered as
	outerstand to nowing a volcanic craption is i	cificient as .
	(A) Climax succession	(B) Primary succession
	(C) Secondary succession	(D) Seral stage
	grand Jawa Maring a service	
52.	Which of the following has low lethality but	high intimacy?
	and the second s	ingii iitiiiiiiiiiii
	ZAN D	
	(A) Parasitoids	(B) Predators
	(C) Parasites	(D) Herbivores
		≫
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53.	As the number of individuals of the predator	ory species	increases, the	prey popu	ulation:	et.	
	(A) Increases	(B) Dec	creases		e de la companya de l		
٠.	(C) Stabalizes	(D) Fire	st increases and	d then beg	ins to dec	rease	
54.	Two organisms that use the same resource said to be:	es, when the	hose resources	s are in sh	ort suppl	y are	
	(A) Predators	(B) Cor	mpetitors	2.05		n è	
	(C) Mutualists	(D) Cor	mmensalists	, tav	**		
55.	Postzygotic isolating mechanisms are those	in which	:				
	(A) Hybrid zygotes fail to develop	(B) Hył	orid zygotes de	evelop abn	ormally		
	(C) Hybrids cannot established in nature	(D) All	of the above			å•å,	
56.	Evolution of genome is contributed by:						
	(A) Whole genome duplication	(B) Seg	mential duplic	ation			
	(C) Loss of gene function	(D) All	of the above				
57.	The term "industrial melanism" refers to the	e process t	y which :		1 W 1	. 1 11.43	
	(A) Darker individuals come to predominate	e over ligh	iter individuals	S .			
	(B) Lighter individuals come to predominat	te over dar!	ker individual:	s	şî e		
	(C) No dominance by either lighter individu	uals or darl	ker individuals	S			
	(D) Lighter individuals come to predominar	nt					
58.	Speciation occurs much more readily in the	•			e Various a		
	(A) Presence of gene flow among populatio	'n		1 4 2	ere i		
	(B) Absence of gene flow among population	n					
	(C) Presence or absence of gene flow among	g populatio	on				9411 9
	(D) Presence of gene flow among species					Ball the	
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	59. The DNA fingerprinting process inv	olved:
	(A) Chain termination	(B) Degenerate oligonucleotides
	(C) VNTR Loci	(D) RFLPs
	60. To produce plants that are homozygo	ous for all traits, the best choice is:
	(A) Cell suspension culture	(B) Anther/pollen culture
	(C) Protoplast culture	(D) Callus culture
	61. Gormline gene therapy could potenti	ally correct a genetic defect in a (n):
	(A) Affected individual only	
	(B) Affected individual and his or he	r offsprings only
	(C) Affected individual and all of his	or her descendants
٠	(D) Parents of an affected child	
	62. Which of the following assay in curre	ntly being used for the detection of Helicobacter pyla
	(A) Agglutination	
	(B) Enzyme-linked immunoabsorbent	assay
	(C) Immunodiffusion	
	(D) Flow Cytometry	
* 4	63. Desensitization to an allergen involve production of the following immunog	es injection of the allergen beneath the skin to induction
	(A) Ig A	(B) Ig D
	(C) ig G	(D) Ig E
	64. In the creation of a microarray (biochi	p) fragments of DNA are placed on a:
	(A) Microscope slide	(B) Circuit board
	(C) Silicon chip	(D) Membrane

65.	Darwin proposed that :				
	(A) Natural selection on variants with population leads to evolutionary changes				
	(B) Natural selection on variants may not lead to evolutionary changes				
	(C) Variation was not responsible for evolution				
	(D) Evolution is unpredictable			¥	
66.	Phase contrast microscopy enables the viewing of unstained and thin objects by:				
	(A) Converting phase differences to amplitude differences				
	(B) Making use of amplitude differences caused by the object			رَة	
	(C) Converting amplitude differences to phase	se differences	W.		
	(D) Optically staining the object	$\frac{ \Phi_{n}(x_{n}) }{ x_{n}(x_{n}) } = \frac{1}{n} \left(\frac{1}{n} \right) \right) \right) \right) \right) \right) \right) \right) \right) \right)} \right) \right)} \right) \right) } \right) } \right) $	alic'		
67.	What is the standard deviation for a sample of 10 calf body weight given below: 210, 215, 220, 225, 215, 205, 220, 210, 215, 225			•	
	$(A) \pm 10$	(B) ± 6.58		14	
	$(C) \pm 5.68$	(D) ± 3.24	•		
68.	The best statistical method for finding the closeness between two sets of data is:				
	(A) Correlation analysis	(B) Regression analysis			
	(C) Chai square test	(D) Student t-test			
69.	The correct hierarchical order of the following taxonomic terms is:				
•	(A) Family-Phyllum-Class-Order	(B) Phyllum-Order-Class-F	amily		
	(C) Class-Family-Phyllum-Order	(D) Phyllum-Class-Order-I	amily		
70.	In five-kingdom system of classification all prokaryotes have been put under:				
	(A) Protista	(B) Monera		Ne.	
	(C) Plantae	(D) Mycota			
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71.	The organisms referred to an mycoplasma are:		
•	(A) Eubacteria	(B) Anchaebacteria	
	(C) Cyanobacteria	(D) Mycobacteria	
72.	Which group of plants are refered to a amp	phibians of plant kingdom?	
	(A) Xanthophytes	(B) Bryophytes	
	(C) Chorophytes	(D) Pteridophytes	
73.	Swim Bladder is present in:		
	(A) Bony fishes	(B) Frogs	
	(C) Aquatic snakes	(D) Aquatic reptiles	
74.	Which one of the following correctly matches all the items of column A with those given column B?		
	Column A	Column B	
	1. The enzyme that synthesizes pre mRN	A (a) RNA polymerase I	
	2. The enzyme that synthesizes m RNA	(b) RNA polymerase II	
	3. The enzyme that synthesizes 4 SS rRN	IA (c) RNA polymerase III	
	4. The enzyme that synthesizes t RNA	4. RNA polymerase IV	
	(A) 1-a, 2-b, 3-c, 4-d	(B) 1-b, 2-c, 3-a, 4-c	
	(C) 1-c, 2-b, 3-c, 4-a	(D) 1-a, 2-b, 3-d, 4-c	
75.	Which of the following is not a source for stem cells:		
	(A) Early embryo	(B) Umbilical cord blood	
	(C) Sperm and egg	(D) Certain adult tissues	
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