

## DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE ASKED TO DO SO

## TEST BOOKLET SERIES

## TEST BOOKLET PGT(BIOLOGY)-2016



Time	Allowed : 2 Hours] [Maximum Marks : 100
	All questions carry equal marks.
	INSTRUCTIONS
1.	Immediately after the commencement of the examination, you should check that test booklet does not have any unprinted or torn or missing pages or items, etc. If so, get it replaced by a complete test booklet.
2.	Encode clearly the test booklet series A, B, C or D as the case may be in the appropriate place in the answer-sheet.
3.	Write your Roll Number only in the box provided alongside.  Do not write anything else on the Test Booklet.
4.	This Test Booklet contains 100 items (questions). Each item comprises four responses (answers). Choose only one response for each item which you consider the best.
5.	After the candidate has read each item in the Test Booklet and decided which of the given responses is correct or the best, he has to mark the circle containing the letter of the selected response by blackening it completely with Black or Blue ball pen. In the following example, response "C" is so marked:
12	(A) (B) (D)
6.	Do the encoding carefully as given in the illustrations. While encoding your particulars or marking the answers on answer sheet, you should blacken the circle corresponding to

- the choice in full and no part of the circle should be left unfilled. After the resp been marked in the ANSWER SHEET, no erasing/fluid is allowed.
- You have to mark all your responses ONLY on the ANSWER SHEET separately given according to 'INSTRUCTIONS FOR CANDIDATES' already supplied to you. Responses marked on the Test Booklet or in any paper other than the answer sheet shall not be
- All items carry equal marks. Attempt all items. Your total marks will depend only on the number of correct responses marked by you in the Answer Sheet. There will be no negative marking.
- Before you proceed to mark responses in the Answer Sheet fill in the particulars in the front portion of the Answer Sheet as per the instructions sent to you.
- If a candidate gives more than one answer, it will be treated as a wrong answer even 10. if one of the given answers happens to be correct.
- After you have completed the test, hand over the Answer Sheet only, to the Invigilator. 11.

## PGT(BIOLOGY)-2016

Tin	ie Allo	owed : 2 Hours]		[Maximum Marks	: 10
1.	Ch	olesterol is not the precur	sor in the s	synthesis of:	
	(A)	Steroid hormones	(B)	Bile acids	
	(C)	Vitamin D	(D)	Adrenalin	
2.	Am	monia is the main nitrog	enous excre	tory material in :	
	(A)	Amphibians	(B)	Turtles	21
	(C)	Tadpoles	(D)	Reptiles	
3.	The	retrieval of data from bi	oinformatics	source is called as:	
	(A)	Surfing	(B)	Data collection	
	(C)	Data mining	( <b>D</b> )	Google searching	į
4.	Ribo	ozymes function as :			12
	(A)	Genetic material	(B)	RNA	2
	(C)	Enzyme	(D)	Both (B) and (C)	8
5.	Whi	ch of the enzyme is not a	ssociated w	ith genetic engineering?	
	(A)	Exonuclease	(B)	Endonuclease	
	(C)	Ligase	<b>(D)</b>	Lyase	
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	6.	Rem	oval of the keystone predator	from a	community will	result in	
		(A)	Dominance of an alternate p	redator		2 2	
		(B)	General decline in species di	versity			
		(C)	Increases in prey population	densiti	es		
					901	>3	
		(D)	Decrease in primary product	ivity			
	7.	Whi	ch is the first Immunoglobul	in prod	uced in primary	y response	to an
		anti	gen ?				
		(A)	IgG	(B)	IgE		
		(C)	IgA	(D)	IgM		
	8.	Whi	ch wildlife reserve in India i	s popul	arly known as l	Floating Na	ational
		Parl	k ?	2 (2.1)		- 25	
		(A)	Keibul Lamjo	(B)	Keoladeo		
4		(C)	Chilka Lake	(D)	Nal Sarovar		
7:	9.	Whi	ich hormone is used for early	pregna	ncy diagnosis ?		
			LH	70000	Oxytocin	3	
ž.		300765	and the same of th	v.e.s.	- 14 A		
		(C)	Progesterone	(D)	hCG		4, 9
	10.	Whi	ich one of the following pairs is	not corr	ectly matched?	Wildlife San	ctuary
	2	and	State:			10	
ř		(A)	Eturnagarma — Tamil Nad	u			
		(B)	Bhagavan Mahavir — Goa		* lie sa		47
		20000) 20000	THE RESERVE AND ADDRESS OF THE PERSON OF THE		74		
		(C)	Nandini — Jammu and Kas	nmır			100
		(D)	Narayan Sarovar — Gujara	t			
	PGT	(BIOI	LOGY)-2016—B	3	9	AND V	P.T.O.

11.	То	hydrolyse ATP during	muscle contra	ction ATPase is pres	ent in :
	(A)	Head of myosin	(B)	Neck of myosin	SII
	(C)	Tail of myosin	(D)	Active site of Actin	filamen
12.	Zor	na pellucida is a non-cel	llular layer be	tween :	
	(A)	Oolemma and corona	(B)	Granulosa and the	a
	(C)	Ooplasm and Nucleose	ol (D)	Theca and germina	l layer
13.	Ozo	onosphere is a componer	nt of:		.0.
94II 34	(A)	Troposphere	(B)	Stratosphere	
	(C)	Mesosphere	(D)	Thermosphere	
14.	Wh	ich hormone is not secr	eted by ovary	?	161 1.0
55	(A)	Estrogen	(B)	Relaxin	* "
	(C)	Progesterone	(D)	FSH	
15.	Zygo	ote is:	F 44 1		
	(A)	Totipotent	(B)	Pluripotent	
	(C)	Multipotent	(D)	Unipotent	
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16.	Whic	h vitamin has ma	ximum antioxidant	properties ?	
	(A)	Vitamin A	(B)	Vitamin B	
	(C)	Vitamin C	(D)	Vitamin D	-
17.	Whic	ch type of cleavage	e occurs in poultry	egg ?	
1 187	(A)	Holoblastic	(B)	Meroblastic	
8	(C)	Discoidal	(D)	Unequal holoblastic	148 <sub>y</sub>
18.	Whi	ch is the smallest	bone in mammals	?	
	(A)	Patella	(B)	Carpals	
9	(C)	Incus	(D)	Stapes	
19.	The	colour differentiat	ion is due to :		
	(A)	Rods	(B)	Cones	
	(C)	Bipolar nerves	(D)	Pigmented epithelium	
20.	Whi	ich type of pollutio	n causes jaundice	?	
	(A)	Air	(B)	Water	9
	(C)	Soil	(D)	Thermal	
PG7	(BIOI	LOGY)-2016—B	5		P.T.O

21.	Wh	ich of the following plant	yields the r	eserpine used in	the treatment of
	hyp	ertension ?			
	(A)	Ranunculus	(B)	Rauvolfia	
	(C)	Cinchona	(D)	Atropa	
22.	A g	ummy resinous substanc	e used as spi	ice is obtained from	om root of which
	of t	he following plant?			
	(A)	Coriandrum	(B)	Carum	
	(C)	Copticum	(D)	Ferula	
23.	The	phenomenon of double	fertilization v	was first describe	d by:
	(A)	Nawaschin	(B)	Strasburger	
	(C)	Nageli	(D)	Schwann	27
24.	Uni	sexual flowers and bicoll	ateral bundle	es are found in t	he family :
	(A)	Cruciferae	(B)	Commelinaceae	
	(C)	Cucurbitaceae	(D)	Combretaceae	
25.	In v	which of the following an	giosperms ve	essels are absent	?
	(A)	Digitalis	(B)	Desmodium	
	(C)	Drimys	(D)	Dodonea	26
PGT	BIOL	OGY)-2016—B	6	(2)	

26.	A piece of DNA molecule that can serve as a carrier for the genes to be cloned						
	is ca	ılled :					
	(A)	Virus	· (B)	Vector			
	(C)	Viroid	(D)	Mycoplasma			
27.	The	capability of a isolated single	cell to	develop into a complete plant is			
	knov	wn as:					
Š	(A)	Apomixis	(B)	Totipotency			
	(C)	Parthenogenesis	(D)	Somatic hybridization .			
28.	Who	is regarded as father of Plant	Tiss	ue Culture ?			
	(A)	Haberlandt	(B)	White			
	(C)	Linnaeus	(D)	Skoog			
29.	Which of the following ecological pyramids is always upright?						
	(A)	Pyramid of energy	(B)	Pyramid of biomass			
	(C)	Pyramid of number	(D)	None of these			
30.	Whi	ch of the following algae shows	s para	sitism ?			
	(A)	Padina	(B)	Fucus			
	(C)	Cephaleuros	(D)	Batrachospermum			
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(a)							
	(A)	Cercospora		(B)	Phytophthora		
						25,	
	(C)	Albugo		(D)	Fusarium		
			14	(4)	4.50	11 N	
32.	Wilt	of pigeon pea is caus	ed by:				
			7				
	(A)	Helminthosporium		(B)	Pythium		
	(C)	Alternaria	a 11 =	(D)	Fusarium		5
33.	Who	authored the book D	ie Naturli	chen	Pflanzen ?		
	(A)	Thorne		(B)	Cronquist		
	(C)	Engler & Prantle		(D)	Takhtajan		
34.		is a	specimen	dupli	cate of the holoty	e from th	e same
	colle	ection of the same date	and san	ne loc	ality.		
	(A)	Isotype		(B)	Paratype		
	(C)	Lectotype	10-6	(D)	Neotype		
PGT(	BIOL	OGY)-2016—B	8				

Tikka disease of groundnut is caused by:

35.	Accor	ding to ICBN the starting	ng date for a	valid name of an	angiosperm is:
	. (4	1770	(B)	21st June, 1853	
	(A)	1st May, 1753	(B)	Zist June, 1005	
	(C)	31st June, 1853	(D)	21st May, 1857	
36.	In th	ne mesophyll cells of C4	plants, which	one of the followi	ng substance is
	abse	nt:			
	(A)	Rubisco	(B)	Phosphoenolpyru	vate
	(C)-	PEP carboxylase	(D)	PGA	
37.	Whi	ch of the following growt	h regulators	is known to promo	te senescence in
	plan	ts ?			
	(A)	Auxin	(B)	Gibberellic acid	
	(C)	Ethylene	(D)	Kinetin	
38.	Whi	ch of the following com	pounds is re	generated in Calv	in cycle ?
	(A)	Phosphoglyceric acid	(B)	RuBP	
	(C)	Erythrose phosphate	(D)	Glucose	
PG'	r(BIOI	LOGY)-2016—B	9	1	P.T.O.

39.	Ov	ules are not protected by	ovary wall	in:	7
		-1. 19	86.		
	(A)	Rose	(B)	Cycas	
					9 9
8	(C)	Petunia	(D)	Eucalyptus	5
40.	In	which of the following lea	f performs fu	nction of reprod	ection in addition
			<b>1</b>	or reprote	action in addition
	to 1	normal photosynthesis?			
	(A)	Bryum	(B)	Pteris	
	(C)	Cycas	(D)	Cuscuta	
		Annual Commission			
41.	. Wh	ich of the following struct	ture is not fo	ound in a eukar	yotic cell ?
			35		
	(A)	Ribosome	(B)	Mitochondria	
	(C)	Mesosome	_ (D)	Golgi body	
				1 8 <sub>e</sub>	
42.	Ubis	sch bodies responsible for	exine forma	tion are produce	d in:
		7.65 F			
	(A)	Endothecium	(B)	Endothelium	
	14		100		. I
	(C)	Tapetum	(D)	Middle layer	7 A 1 1 1 10
PGT	BIOL	OGY)-2016—B	10		1 1 5

43.4	The p	process of evolution	of differen	t spec	nes in a given geographical area
2	starti	ng from a point and	literally ra	diatir	ng to the other areas of geography
	is kn	own as:			
	(A)	Migration		(B)	Adaptive radiation
	(C)	Divergent evolution		(D)	Natural selection
44.	The p	gradual and fairly p	redictable	chang	ge in the species composition of a
	given	area is called:			
	(A)	Ecotone		(B)	Ecological succession
	(C)	Ecosystem		(D)	Gross productivity
45.	Incre	ase in concentration	of a harmf	ul sul	ostance at successive trophic levels
	is kn	own as:	V 207		
	(A)	Biomagnification		(B)	Eutrophication
	(C)	Pollution		(D)	Biodegradation
46.	Duri	ng which phase of n	nitosis cell	is me	tabolically active and continuously
	grow	s but does <i>not</i> repli	cate its Di	NA:	
	(A)	$G_1$		(B)	S
	(C)	$G_2$		(D)	M
PGT	BIOL	OGY)-2016—B	. 11		P.T.O.

47.	When water enters a cell wall	l it results i	n the development of a press	)re
	against wall is known as:	1.3		
8	(A) Diffusion Pressure	(B)	Wall Pressure	
	(C) Turgor Pressure	(D)	Osmotic Pressure	
48.	In plants, K+ ions are essenti	al for:		
	(A) Maintenance of turgidity	of cell		-
3.	(B) Synthesis of chlorophyll			
	(C) Synthesis of IAA			
	(D) Nitrogen fixation	v Berlin		
49.	Cell wall is in the form of two	thin overla	apping shells which fit together	as
	soapbox, in:			
8	(A) Chrysophyta	(B)	Dinoflagellates	
	(C) Euglenoids	(D)	Slime moulds	
50.	An anticancerous drug, Taxo	l is obtained	d from :	
	(A) Taxodium	(B)	Taxus	
	(C) Todea	. (D)	Trachyspermum	
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						W 2 1 2
	(A)	Agaricus		(B)	Aspergillus	
	(C)	Albugo		(D)	Saccharomyces	×
52.	Chlo	rophyll $a$ , $d$ and p	hycoerythrin	are p	present in the men	nbers of:
	(A)	Chlorophyaceae		(B)	Phaeophyaceae	
	(C)	Rhodophyaceae		(D)	Cyanophyaceae	
53.	Food	is stored in the	form of manni	tol a	nd laminarin in :	
	(A)	Phaeophyaceae		(B)	Rhodophyaceae	3 1 1
	(C)	Chlorophyaceae		(D)	Cyanophyaceae	
54.	Two	unequal flagella	are present in	2008	spores in :	
0113	(A)	Chlorophyaceae	IR o	(B)	Phaeophyaceae	
39	(C)	Rhodophyaceae		(D)	Cyanophyaceae	
55.	Spo	rophyte is physical	ly and physiol	ogica	lly dependent on g	ametophyte in :
	(A)	Fucus		(B)	Asterella	3
	(C)	Selaginella	38	(D)	Cycas	A Services
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54 Sexual spores are produced exogenously in :

56.	Jac	keted sex organs are for	ınd in :			L
19	(A)	Spirogyra	0	(B)	Polysiphonia	22
	(C)	Marchantia		(D)	Agaricus	
57.	Dur	ring translation, peptidyl	transfera	se e	enzyme is involved in :	
	(A)	Transfer of phosphate	group			
	(B)	Amino acid activation			* no = 3	
6	(C)	Peptide bond formation	n between	adj	acent amino acids	
	(D)	Binding of ribosome su	ibunits to	mR	INA	
58.	In e	eukaryotes, translation i	s initiated	by	binding of ribosome to:	
	(A)	Pribnows box		(B)	Hogness box	
	(C)	5' cap		(D)	Poly A tail	f e
59.	The	X-ray diffraction studies	conducted	d by	were key to	the
	disc	overy of the structure of	f DNA.		20	
	(A)	McClintock	(	(B)	Franklin	
	(C)	Messelson & Stahl		(D)	Chargaff	
60.	Lar	gest male gamete are fo	und in wh	nich	of the following:	
	(A)	Sequioa	(	B)	Cycas	
	(C)	Eucalyptus	(	D)	Taxus	
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61.	which lake is situated on the	chanshal peak in Rohr	Tehsil of Shimla
	District ?		
	(A) Chandratal	(B) Tanu Jubbal	
	(C) Chandranahan	(D) Surajtal	
62.	What is the approximate altit	ude of Rohtang pass wh	ich is gateway to
	Lahaul and Spiti ?		
	(A) 11000 ft.	(B) 13050 ft.	
	(C) 14665 ft.	(D) 14875 ft.	
63.	Which shrine near Mandi town	of H.P. is dedicated to	the Nagas ?
	(A) Kamrunag	(B) Mahunag	
	(C) Kelangnag	(D) Nagchala	
64.	Who is the author of Antiquitie	s of Chamba State, Part	I ?
	(A) G.T. Vigne	(B) J. Ph. Vogel	
	(C) H.T. Princep	(D) A.F.D. Harcour	t
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				20.00		87	16
65.	Which	year did Mugha	d emperor Ja	hangi	r capture the	Kangra fort	?
	- 120	*					
	(A) 16	604 A.D.		(B)	1609 A.D.		
	The state of		36				
	(C) 1	616 A.D.	T OF T	(D)	1622 A.D.		77 7
	45		0.000 22	2	1		11
66.	In whi	ich District of H	P. are the H	ul co	pper mines ?		
	(A) N	Mandi	25	(B)	Sirmaur		
	(-1)					5. Tar	
	Contract of	······································		(D)	Solan		
	(C) (	Chamba		(1)	Dolan		
		10 No. 1			- 1	- Turk	0000004400
67.	Which	of the following	g Moravian m	onast	eries are situa	ited at Keylo	ng, the
			7.7				
	headq	uarters of Lahu	l-Spiti Distric	t of F	I.P. ?	W 15	8
. 1				T., X.			
	(A)	Khardong		(B)	Shashur		9.0
ğ	(0)	Tayul	1 55	(D)	All of these		
	(C)	Tayui		0.0755.0	N DEWESS SERVE		
				di seco		Landa Lada	- oot un
68.	At w	hich place is the	e proposed H.	P. Ju	dicial Legal A	cademy being	g set up
			E				-
	by th	e H.P. Govt. ?			17 534		
1	(A)	Ghandal near S	Shimla	(B	Tara Devi	near Shimla	
	(A)	Camarana anna a	V2-11-11-1				
		-	(800)	æ	Vathinum :	near Bilaspu	•
	(C)	Saproon near S	olan	(D	/ Kotmpura	dear Didapu	
PG	T(BIOL	OGY)-2016—B	1	6			
10.10		NAMES OF TAXABLE PARTY.					

69.	Which country is helping Hir	nachal Prade	sh in promoting th	he cultivation of
	Jaitoon (olive) ?			×
1	(A) France	(B)	Canada	
	(C) Italy	(D)	Germany	
70.	Which town in Himachal Prac	lesh has been	selected under Sm	art City Mission
Si .	(first phase) ?	2	1100	(34)
	(A) Shimla	(B)	Dharamsala	
	(C) Mandi	(D)	Solan	
71.	Against which country did I	ndian Men's l	Hockey team regis	ster its only win
	at the 2016 Rio Olympics?			
	(A) Canada	(B)	France	
	(C) Argentina	(D)	None of these	
72.	In which state of India is I	Outtingal Dev	i temple ?	×
	(A) Tamil Nadu	(B)	Kerala	9" (
	(C) Karnataka	(D)	Telangana	
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73.	Which day is observed as Indian Navy Day?						
	(A)	April 05		(B)	November 30		
	(C)	December 04		(D)	December 07		
74.	At v	which place in Raja	sthan is the I	argal	h of Sufi Saint Khwaja Moint	ıddin	
	Chi	sti ?			5		
	(A)	Pushkar		(B)	Boondi		
	(C)	Alwar		(D)	Ajmer		
75.	Wh	ich airport in Indi	a is named a	fter G	Gopinath Bordoloi ?		
	(A)	Guwahati		(B)	Pashighat		
	(C)	Imphal		(D)	Dimapur		
76.	Which is the country of origin of Oman Mateen who killed over 50 people						
	in	Florida in June 2	016 ?				
	(A)	) Iran		(B)	Afghanistan		
	(C	) Iraq	X P	(D)	Syria		
PG'	r(BIC	LOGY)-2016—B	18	8			

77.	Con	viden the following with	rogard to Pr	resident Barack Obar	na's visit to				
***	Consider the following with regard to President Barack Obama's visit to Hiroshima Peace Memorial on May 27, 2016:								
	(i)								
	(ii)								
	(iii)	He embraced a surviv	or of the 1945	bomb attack.	E.				
	Whi	ch of the above are tra	ie ?						
	(A)	(i) and (ii) only	(B)	(i) and (iii) only					
	(C)	(ii) and (iii) only	(D)	(i), (ii) and (iii)					
78.	Who	among the following w	vas named 'Per	rson of the year 2015'	by the U.S.				
	magazine Time on December 09, 2015 ?								
	(A)	Narendra Modi	(B)	Angela Merkel	82.				
	(C)	Dilima Rousseff	(D)	Donald Trump					
79.	Nea	r which city of Cambodi	a a huge city co	omplex surrounding a	stone temple				
	and	iron smelting sites ha	s been discove	red ?					
	(A)	Phnom-Penh	(B)	Battambang	+3				
	(C)	Kampong Chan	(D)	Angkor Wat	,				
80.	When did Mother Teresa, who was elevated to Sainthood on September 04,								
	2016, pass away ?								
	(A)	1996	(B)	1997					
	(C)	1998	(D)	2000					
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	(A)	5' to 3'	(B)	3' to 5'
	(C)	1' to 5'	(D)	5' to 1'
82.	The	cells which line semnifer	ous tubules	in testis of mammals are :
	(A)	Leydig cells	(B)	Sertoli cells
	(C)	Myoid cells	(D)	Interstitial cells
83.		ing muscle contraction wh	ich ions are	e necessary :
	(A)	Ca++	(B)	Na <sup>+</sup>
	(C)	K <sup>+</sup>	(D)	Mg <sup>++</sup>
84.	The	royal Bengal tiger is four	nd in :	
	(A)	Kaziranga	(B)	Rewa
	(C)	Sunderban	(D)	Jim Corbett
85.	Niss	sil's granules are present	n which typ	pe of cells ?
	(A)	Muscles	(B)	Nerves
	(C)	Liver	(D)	Epithelial
PGT	(BIOL	OGY)-2016—B	20	

DNA is synthesized in the direction of:

50	(A)	Thalassaemia	(B)	Cystic fibrosis	147
	(C)	Cretinism	(D)	Haemophilia	$\widetilde{X}_{i_1 + i_2}$
07	X -2				ta saltad
87.	AS	udden change in the str	ucture and i	unction of a gene	is called as :
	(A)	Variation	(B)	Mutation	
Œ	(C)	Linkage	(D)	Heredity	13
88.	In h	pirds the crop milk is pr	roduced by :	$^{*}$ $^{*}$	AT,
	(A)	Male	(B)	Female	
	(C)	Both male and female	(D)	Flight birds	
89.	Owl	l is:			
	(A)	Diurnal	(B)	Crepuscular	
	(C)	Vesper tine	(D)	Nocturnal	196
90.	Mor	nkeys are :			
	(A)	Digitigrade	(B)	Plantigrade	
	(C)	Ungligrade	(D)	Bradypus	(#S
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Which of the following is not a hereditary disease?

91.	Scal	y ant eater belongs	to order :	k	
	(A)	Eutheria		(B)	Metatheria
	(C)	Prototheria		(D)	Edentata
92.	The	Indian Pearl Oyster	is:		
	(A)	Pinctada		(B)	Sepia
	(C)	Loligo		(D)	Solen
93.	Whi	ch group of animals	was the fi	rst to	evolve to fly :
	(A)	Reptiles		(B)	Mammals
	(C)	Insects		(D)	Birds
94.	Coel	omic fluid helps in t	the locomot	ion in	
	(A)	Hydra		(B)	Earthworm
	(C)	Frog		(D)	Starfish
95.	The	characteristic featur	e of Coelen	trates	is:
	(A)	Diploblastic		(B)	Mesoglea
	(C)	Cnidoblasts		(D)	Ostium
PGT	BIOL	OGY)-2016—B	22		

42	(A)	Epithelial		(B)	Cardiac	
	(C)	Connective		(D)	Muscular	
97.	Anti	ibodies are produced by :				
	(A)	Lymphocytes		(B)	Plasma cells	
	(C)	RBCs		(D)	T-cells	
98.	Pan	creas secretes :		5,		
	(A)	Insulin		(B)	Glucagon	
	(C)	Pancreatic juice	9	(D)	All (A), (B) and (C)	
99.	Wha	at is common in both stric	ated ar	nd ca	rdiac muscle cell ?	
	(A)	Shape		(B)	Number	E .
	(C)	Striations		(D)	Contractions	
100.	The	molecule that is the main	n sour	ce of	ATP synthesis:	
	(A)	Glucose		(B)	Triglycerides	
	(C)	Proteins		(D)	Cholesterol	
PGT(	BIOL	OGY)-2016—B	23			P.T.O.

Which type of tissue is Blood ?