GLOBAL TALENT SEARCH EXAMINATIONS (GTSE)

CLASS -XI

Max Marks: 100 Time: 11:30 to 12:45 p.m.

Biology

General Instructions: (Read Instructions carefully)

- 1. All questions are compulsory. First 15 minutes for reading instructions.
- 2. This paper contains **50 objective type questions**. Each question or incomplete sentence is followed by four suggested answers or completions. Select the one that is the most appropriate in each case and darken the correct alternative on the given answer-column, with a pencil or pen.
- 3. For each correct answer 2 marks will be awarded and there is no negative marking.
- 4. No extra sheet will be provided.

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- 5. Use of calculators & mobile is not permitted in examination hall.
- 6. Use of unfair means shall invite cancellation of the test

Name of the Student	:
Roll No.	:
Centre	:
Invigilator's Signatur	e:
AMITY INS	TITUTE FOR COMPETITIVE EXAMINATIONS
• B-1/623, 3 rd Floor, Main Cast Delhi Centre: Amity Internatio	E-25, Defence Colony New Delhi - 110024. Ph.: 24336143, 24336144. Nazafgarh Road, Janakpuri, New Delhi - 110058. Ph.: 25573111 / 12 / 13 / 14. nal School, Sector-6/HS-1, Vasundhara Youjna, Ghaziabad-201012. Ph.: 95120-2885412/13/14 nity Campus, Sector-44, Noida - 201303. Ph.: 95120-2431839, 2431842

 3. The first seeded plant is (a) Selaginella (b) Pteridium (c) Pteridosperms (d) Nephrolep 4. How many generations are represented in the seed of Pinus ? (a) One (b) Two (c) Three (d) Four 5. Anti-rabies vacine was prepared by (a) Salk (b) Pasteur (c) Jenner (d) Koch 6. Antiviral glycoproteins produced in virus infected cells of vertebrates are called 	1.	Iden	tify "X" in the L.	S. of G	ILL of Agaricus.				
 (c) Sub-hymenium (d) Basidium (d) Basidium (e) Sub-hymenium (f) Basidium (g) Basidium (h) Basidium (h) Pteridophyta (h)		(a)	Trama						
 (d) Basidium (d) Basidium (e) Basidium (f) Basidium (f) Basidium (g) Bryophyta (h) Pteridophyta (h) Pt		(b)	Hymenium			Χ -			
 2. Which group of plants exhibits origin and evolution of stele ? (a) Bryophyta (b) Pteridophyta (c) Gymnosperms (d) Angiospern 3. The first seeded plant is (a) Selaginella (b) Pteridium (c) Pteridosperms (d) Nephrolep 4. How many generations are represented in the seed of Pinus ? (a) One (b) Two (c) Three (d) Four 5. Anti-rabies vacine was prepared by (a) Salk (b) Pasteur (c) Jenner (d) Koch 6. Antiviral glycoproteins produced in virus infected cells of vertebrates are called (a) Phytoalexins (b) Oncogenes (c) Interferon (d) Allochemic 7. Prions are (a) Infectious protein with DNA (b) Infectious protein without DNA (c) Infectious protein with RNA 		(c)	Sub-hymenium						
 (a) Bryophyta (b) Pteridophyta (c) Gymnosperms (d) Angiospern 3. The first seeded plant is (a) Selaginella (b) Pteridium (c) Pteridosperms (d) Nephrolep 4. How many generations are represented in the seed of Pinus ? (a) One (b) Two (c) Three (d) Four 5. Anti-rabies vacine was prepared by (a) Salk (b) Pasteur (c) Jenner (d) Koch 6. Antiviral glycoproteins produced in virus infected cells of vertebrates are called (a) Phytoalexins (b) Oncogenes (c) Interferon (d) Allochemic 7. Prions are (a) Infectious protein with DNA (b) Infectious protein without DNA (c) Infectious protein with RNA (d) Non-infectious protein without DNA 		(d)	Basidium				B		and the second s
 (a) Bryophyta (b) Pteridophyta (c) Gymnosperms (d) Angiospern 3. The first seeded plant is (a) Selaginella (b) Pteridium (c) Pteridosperms (d) Nephrolep 4. How many generations are represented in the seed of Pinus ? (a) One (b) Two (c) Three (d) Four 5. Anti-rabies vacine was prepared by (a) Salk (b) Pasteur (c) Jenner (d) Koch 6. Antiviral glycoproteins produced in virus infected cells of vertebrates are called (a) Phytoalexins (b) Oncogenes (c) Interferon (d) Allochemic 7. Prions are (a) Infectious protein with DNA (b) Infectious protein without DNA (c) Infectious protein with RNA (d) Non-infectious protein without DNA 	2.	Whi	ch group of plants	exhibi	ts origin and evolu	tion of s	tele ?	01.0	a a a ag
 (a) Selaginella (b) Pteridium (c) Pteridosperms (d) Nephrolep 4. How many generations are represented in the seed of Pinus ? (a) One (b) Two (c) Three (d) Four 5. Anti-rabies vacine was prepared by (a) Salk (b) Pasteur (c) Jenner (d) Koch 6. Antiviral glycoproteins produced in virus infected cells of vertebrates are called (a) Phytoalexins (b) Oncogenes (c) Interferon (d) Allochemic 7. Prions are (a) Infectious protein with DNA (b) Infectious protein without DNA (c) Infectious protein with RNA 					-			(d)	Angiosperms
 (a) Selaginella (b) Pteridium (c) Pteridosperms (d) Nephrolep 4. How many generations are represented in the seed of Pinus ? (a) One (b) Two (c) Three (d) Four 5. Anti-rabies vacine was prepared by (a) Salk (b) Pasteur (c) Jenner (d) Koch 6. Antiviral glycoproteins produced in virus infected cells of vertebrates are called (a) Phytoalexins (b) Oncogenes (c) Interferon (d) Allochemic 7. Prions are (a) Infectious protein with DNA (b) Infectious protein without DNA (c) Infectious protein with RNA 	3.	The	first seeded plant	is					
 (a) One (b) Two (c) Three (d) Four 5. Anti-rabies vacine was prepared by (a) Salk (b) Pasteur (c) Jenner (d) Koch 6. Antiviral glycoproteins produced in virus infected cells of vertebrates are called (a) Phytoalexins (b) Oncogenes (c) Interferon (d) Allochemic 7. Prions are (a) Infectious protein with DNA (b) Infectious protein without DNA (c) Infectious protein with RNA (d) Non-infectious protein without DNA 			-		Pteridium	(c)	Pteridosperms	(d)	Nephrolepis
 (a) One (b) Two (c) Three (d) Four 5. Anti-rabies vacine was prepared by (a) Salk (b) Pasteur (c) Jenner (d) Koch 6. Antiviral glycoproteins produced in virus infected cells of vertebrates are called (a) Phytoalexins (b) Oncogenes (c) Interferon (d) Allochemic 7. Prions are (a) Infectious protein with DNA (b) Infectious protein without DNA (c) Infectious protein with RNA (d) Non-infectious protein without DNA 	4.	Ном	v many generation	ns are r	epresented in the	seed of	Pinus ?		
 (a) Salk (b) Pasteur (c) Jenner (d) Koch 6. Antiviral glycoproteins produced in virus infected cells of vertebrates are called (a) Phytoalexins (b) Oncogenes (c) Interferon (d) Allochemic 7. Prions are (a) Infectious protein with DNA (b) Infectious protein without DNA (c) Infectious protein with RNA (d) Non-infectious protein without DNA 					-			(d)	Four
 (a) Salk (b) Pasteur (c) Jenner (d) Koch 6. Antiviral glycoproteins produced in virus infected cells of vertebrates are called (a) Phytoalexins (b) Oncogenes (c) Interferon (d) Allochemic 7. Prions are (a) Infectious protein with DNA (b) Infectious protein without DNA (c) Infectious protein with RNA (d) Non-infectious protein without DNA 	5.	Anti	-rabies vacine wa	s prepa	ured by				
 (a) Phytoalexins (b) Oncogenes (c) Interferon (d) Allochemic 7. Prions are (a) Infectious protein with DNA (b) Infectious protein without DNA (c) Infectious protein with RNA (d) Non-infectious protein without DNA 					-	(c)	Jenner	(d)	Koch
 (a) Phytoalexins (b) Oncogenes (c) Interferon (d) Allochemic 7. Prions are (a) Infectious protein with DNA (b) Infectious protein without DNA (c) Infectious protein with RNA (d) Non-infectious protein without DNA 	j.	Anti	viral glycoprotein	s produ	iced in virus infec	ted cells	of vertebrates are	called	
 (a) Infectious protein with DNA (b) Infectious protein without DNA (c) Infectious protein with RNA (d) Non-infectious protein without DNA 				•					Allochemicals
 (a) Infectious protein with DNA (b) Infectious protein without DNA (c) Infectious protein with RNA (d) Non-infectious protein without DNA 	<i>.</i>	Prio	ns are						
				in with	DNA	(b)	Infectious protein	n withou	ut DNA
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Kough Spuce					- · Poug	h Space	•_		
					- : Roug	n Spuce .			

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(a)	Bacillus and Azo	tobad	cter	(b)	Clostridium and P	seude	omonas			
(c)	Gram negative b	acter	ria	(d)	Gram positive bac	cteria				
In a	young sporophyte of	of feri	n, nourishment from j	orotha	allus is drawn by the					
(a)	Root	(b)	Rhizoids	(c)	Haustoria	(d)	Foot			
Spor	re sac, air spaces ar	nd col	umella are related w	ith wł	nich part of moss spo	oroph	yte			
(a)	Seta	(b)	Operculum	(c)	Apophysis	(d)	Theca			
Whi	ch of the following	bryop	byte is related with o	liscov	very of sex chromoso	me in	plants ?			
(a)	Andrea	(b)	Funaria	(c)	Sphagnum	(d)	Sphaerocarpus			
The	number of chromos	ome i	n archegonia of fern	is 8. V	What will be the num	ber of	f chromosome in leaf,			
spor	e and indusium?									
(a)	16, 8, 8	(b)	8, 16, 16	(c)	16, 8, 16	(d)	8, 16, 8			
The	largest ovule, the la	argest	male cone and large	est ma	ale gamete occur resp	oectiv	ely in			
(a)	Cycas, Pinus and	l Cyc	as	(b)	Pinus, Cycas, Cyc	as				
(c)	Cycas, Cycas, C	ycas		(d)	Cycas, Pinus, Eph	nedra				
The	edible part of Pinu	s ger	ardiana seed is							
(a)	Pericarp	(b)	Endosperm	(c)	Cotyledons	(d)	Seed coat			
Whi	ch of the following	is an	example of homologo	ous or	gans ?					
(a)	Thorn of Bougair	iville	a and tendril of Cuci	urbitc	ı					
(b)	Stipules of Lathy	rus a	phaca and petiole of	Acad	cia					
(c)	Tendrils of Passif	lora	and <i>Gloriosa</i>							
(d)	Both (a) and (c)									
Nun	nerous male flowers	and	a single carpel are fo	ound i	n					
(a)	Head	(b)	Verticillaster	(c)	Cyathium	(d)	Hypanthodium			
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Endospores are resting spores produced by bacteria. These are found in

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17.	•• III		Ũ	wrongly matched?				
	(a)	Hypanthodium	– Sycon	us	(b)	Sunflower – Cyr	osela	
	(c)	Umbel – Cremo	ocarp		(d)	Catkin – Sorosis		
18.	Whi	ch one of the follo	owing is	wrongly paired?				
	(a)	Gram and pea			(b)	Castor and maize	e	
	(c)	Jackfruit and pi	neapple		(d)	Nucellus and me	gaspora	ngium
19.	Adn	ate stipules occur	in					
	(a)	Rose and Ixora	ļ		(b)	China rose and A	Polygon	um
	(c)	Passiflora and I	Rumex		(d)	Strawberry and	rose	
20.	Wha	it is the edible pai	rt in cuc	umber?				
	(a)	Epicarp, mesoc	arp and	endocarp and seed	ls			
	(b)	Mesocarp and e	endocar	þ				
	(c)	Endocarp, place	entae an	d seeds				
	(d)	Mesocarp, endo	ocarp, p	lacentae and seeds				
21.	Smu	t disease develop	s in the					
	(a)	Roots	(b)	Stem	(c)	Leaves	(d)	Ovaries
22.	The	cells of slime mo	ulds are					
	(a)	Uninucleate and	haploid	1	(b)	Uninucleate and	diploid	
	(c)	Binucleate and l	naploid		(d)	Multinucleate and	d diploid	l
23.	Prot	onema of moss d	evelops	from				
	(a)	Archesporium	(b)	Amphithecium	(c)	Endothecium	(d)	Spore
24.	'Chi	lgoza' is the seed	of					
	(a)	Pinus roxburgl	nii		(b)	Pinus longifolia	ı	
	(c)	Pinus gerardia	na		(d)	Pinus sylvestris		

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	(a)	1		(b)	2		(c)	3		(d)	4
26.	Hear	t burn is ass	ociated	l with							
	(a)					nter the	oesopl	nagus d	ue to malfu	inction	ning of oesophageal
		sphincters					•	C			
	(b)	High acidit	y in the	stom	ach						
	(c)	Alkaline co sphincters	mpone	nts of	duodenum	n enter the	e stor	nach due	e to abnorn	nal fu	nctioning of pyloric
	(d)	Excess accu	umulati	ion of	pericardia	l fluid aro	ound h	eart			
27.	An e	xample of co	mpetiti	ive inł	hibition of	an enzyme	e is the	e inhibiti	on of		
	(a)	Succinate d	ehydro	genas	se by malo	nic acid					
	(b)	Cytochrom	e oxida	se by	cyanide						
	(c)	Hexokinase	by glu	icose-	-6-phospha	te					
	(d)	Carbonic and	nhydras	se by	carbon dio	xide					
28.	The	reagent used	to dete	ect sug	gar, in the	urine, is					
	(a)	Tollen's rea	gent	(b)	Fehling's	solution	(c)	Benedic	ct's solution	(d)	All of the above
29.	Pher	etima posthi	<i>ıma</i> ha	is an o	enormous	economic	value	, becaus	e		
	(a)	Birds are k	illed du	e to f	eeding on I	P. posthur	na cor	ntaminat	ed with DD	Tand	malathion residues
	(b)	They are us	ed as f	fish ba	ait and wor	n around	arm a	s good o	omen by Ba	ster tr	ibals
	(c)	They make	soil po	rous,	leave their	castings	and br	ing in le	aves etc. in	the so	bil
	(d)	Their burro	ws ma	ke soi	l porous ai	nd loose a	nd the	y excret	e lot of calc	ium p	hosphate in the soil
30.	Marl	the true sta	tement	t							
	(a)	Oxytocin he by anterior			-	ric girdle/1	nuscle	es of vag	inal apertur	e duri	ng birth and secreted
	(b)	Prolactin st	imulate	es as v	well as mai	intains the	e relea	se of mi	lk from mar	nmary	y glands
	(c)	FSH stimul of pituitary	ates ov	varian	follicles to) mature a	ind cau	ises ovu	lation, and	is secr	reted by anterior lobe
	(d)	LH is produ	iced by	anter	rior pituita	ry and cau	ises ov	vulation			
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31.	In c	ockroach blood is devoid of respirato	ry pigment	, because Periplanata americana
	(a)	Does not respire		
	(b)	Respires anaerobically		
	(c)	Oxygen passes to all the tissues thro	-	ion
	(d)	Oxygen reaches tissues through trac	cheoles	
32.	Late	eral line sense organs found in fishes h	nave disapp	peared in amphibians due to
	(a)	Development of sturdy legs		
	(b)	Change over to herbivorous feeding		
	(c)	Occurrence of metamorphosis in am	phibians	
	(d)	Evolution of terrestrial habit.		
33.	The	correct statement regarding Ascaris?		
	(a)	A larval stage of Ascaris is swallowed	by cattle w	which in turn infects human beings
	(b)			ps directly into an adult without entering other
		organs of the host		
	(c)	Snail act as a secondary host of Ascar	is	
	(d)	Eggs of Ascaris containing second stage	e juvenile la	rvae when swallowed by man becomes infective
34.	Hist	ones are rich in which of the following a	mino acids	?
	(a)	Arginine and lysine	(b)	Lysine and tryptophan
	(c)	Arginine and tryptophan	(d)	Arginine, lysine and tryptophan
35.	The	fight-or-flight response is developed by	hormones of	of the
	(a)	Adrenal cortex	(b)	Adrenal medulla
	(c)	Hypothalamus	(d)	Cortico-medullary complex
36.	Deto	oxification in cells is done with the help of	of	
	(a)	Ribosomes	(b)	Endoplasmic reticulum
	(c)	Lysosomes	(d)	Sphaerosome
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37.	The	sodium potassium p	oump					
	(a)	Transports Na ⁺ in	to the	e neuron and K ⁺ out	t			
	(b)	Transports Na ⁺ ar	nd K ⁺	out of the neuron				
	(c)	Transports K ⁺ inte	o the	neuron and Na ⁺ out	ţ			
	(d)	Transports Na ⁺ ar	nd K ⁺	into the neuron				
38.	Whe	eel organ of <i>Lancele</i>	<i>et</i> is h	elpful in				
	(a)	Locomotion	(b)	Ciliary feeding	(c)	Thermoregulation	(d)	None of these
39.	Dur	ing an injury nasal s	septur	n gets damaged the	n which	n cartilage will be pr	eferre	ed for its repair
	(a)	Elastic cartilage			(b)	Hyaline cartilage		
	(c)	Calcified cartilage	•		(d)	Fibrous cartilage		
40.	Whe	en we move from da	ark to	light, we fail to so	ee for s	sometimes but after	a whi	ile visibility becomes
	norr	nal. It is an example	e of					
	(a)	Accomodation	(b)	Adaptation	(c)	Mutation	(d)	Photoperiodism
41.	Sele	ct the correct break	up of	the classes of RNA	A in larg	ge subunit of 70S rit	oson	ne
	(a)	25 S + 5 S + 5.8 S	5		(b)	28 S-29 S + 5 S + 5	5.8 S	
	(c)	16 S-17 S + 5 S			(d)	23 S + 5 S		
42.	Defi	ciency of plasma th	romb	oplastin component	as blo	od clotting factor lea	ds to	
	(a)	Thrombosis			(b)	Stuart disease		
	(c)	Thrombocytopenia	a		(d)	Christmas disease		
43.	Whi	ch of the following	chara	cters is dissimilar in	n aves a	and mammals ?		
	(a)	The type of system	mic a	rch	(b)	Metanephric kidney	y	
	(c)	Number of foetal	mem	branes	(d)	Homeothermy		
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	(a)	Simple diffusion	(h)	Facilitated diffusion	n (c)	Active transport	(d)	Both (a) and (b)
. –		-				-		
45.	The	regulation and cont	rol of	cell cycle operates i	mainly	in which part of it '	?	
	(a)	S - phase	(b)	M - phase	(c)	G ₁ - phase	(d)	G ₂ - phase
46.	In ar	mniote female, the	ureter	is formed from				
	(a)	Wolffian duct	(b)	Mullerian duct	(c)	Metanephric duct	(d)	None of these
47.	Vacc	cination in malaria i	s out	of question because				
	(a)	Plasmodium Proc	luces	mintue bodies				
	(b)	Plasmodium Proc	luces	antitoxins				
	(c)	It does not produc	e anti	bodies and anti-toxi	ns			
	(d)	None of the abov	e					
48.	Raff	inose has, one mo	lecul	e each, of				
	(a)	Glucose, fructos	e and	galactose	(b)	Glucose, pentose	and n	naltose
	(c)	Glucose, glucose	and	galactose	(d)	Fructose, fructose	and	galactose
49.	Pave	ement epithelium i	s					
	(a)	Cuboidal	(b)	Squamous	(c)	Columnar	(d)	Ciliated
50.	In w	hich enzyme inhibi	tion k	Im remains unchang	ed but	t V _{max} decreases ?		
	(a)	Competitive inhibi	tion		(b)	Non-competitive in	hibitic	n
	(c)	Allosteric inhibitio	n		(d)	None of these		
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Answers: Class XI (Biology)

$\begin{array}{cccccccccccccccccccccccccccccccccccc$										
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1.	(d)	2.	(b)	3.	(c)	4.	(c)	5.	(b)
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	6.	(c)	7.	(b)	8.	(d)	9.	(d)	10.	(d)
21. (d) 22. (d) 23. (d) 24. (c) 25. (c) 26. (a) 27. (a) 28. (d) 29. (c) 30. (c) 31. (d) 32. (d) 33. (d) 34. (a) 35. (c) 36. (b) 37. (c) 38. (b) 39. (b) 40. (c) 41. (d) 42. (d) 43. (a) 44. (a) 45. (c)	11.	(d)	12.	(c)	13.	(c)	14.	(b)	15.	(a)
26. (a) 27. (a) 28. (d) 29. (c) 30. (c) 31. (d) 32. (d) 33. (d) 34. (a) 35. (c) 36. (b) 37. (c) 38. (b) 39. (b) 40. (c) 41. (d) 42. (d) 43. (a) 44. (a) 45. (c)	16.	(c)	17.	(b)	18.	(b)	19.	(d)	20.	(d)
31. (d) 32. (d) 33. (d) 34. (a) 35. (a) 36. (b) 37. (c) 38. (b) 39. (b) 40. (c) 41. (d) 42. (d) 43. (a) 44. (a) 45. (c)	21.	(d)	22.	(d)	23.	(d)	24.	(c)	25.	(c)
36. (b) 37. (c) 38. (b) 39. (b) 40. (c) 41. (d) 42. (d) 43. (a) 44. (a) 45. (c)	26.	(a)	27.	(a)	28.	(d)	29.	(c)	30.	(d)
41. (d) 42. (d) 43. (a) 44. (a) 45. (31.	(d)	32.	(d)	33.	(d)	34.	(a)	35.	(b)
	36.	(b)	37.	(c)	38.	(b)	39.	(b)	40.	(b)
46. (c) 47. (c) 48. (a) 49. (b) 50. (41.	(d)	42.	(d)	43.	(a)	44.	(a)	45.	(c)
	46.	(c)	47.	(c)	48.	(a)	49.	(b)	50.	(b)

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