IX M.Sc. (Wildlife Science) National Entrance Test 20 April 2003

SECTION III: OPTIONAL SUBJECT - LIFE SCIENCES

Max. Marks:30

			IVIA.	i. Marks:50
1.	Which is C ₄ plant			
	A . Dames			
	A. Papaya			
	B. Potato			
	C. Pea			
	D. Maize		()	
2.	The boundary region between two differen	ent ecosystems is		
	A. Eudam			
	B. Niche			
	C. Ecotone		-	
			, ,	
	D. Ernone		()	
3.	"Green house effect" is because of			
	1 60			
	A. CO ₂			
	B. CO			
	C. SO ₂			
	D. NO ₂		()	
1.	Intercellular spaces are absent in	. 62		
	A. Cortical tissue			
	B. Meristematic tissue			
	C. Spongy tissue			
	D. Arenchyma tissue		[]	
	D. Mellenyma ussue	F•3 69	` ,	
5.	Sclerenchymatous cells are absent in the mechanical support from	hydrophytes, because	the pla	nt gets
	A. Ellers			
	A. Fibres			
	B. Collenchymatous cells			
	C. Parenchymatous cells			
	D. Water		[]	

6.	Identify the family to which the rubber yielding plant Hevea brasiliensis belongs			
	A. Euphorbiaceae			
	B. Moraceae			
	C. Apocyanaceae			
	D. Rutaceae	()		
7.	Identify the group of angiospermic plants which is considered the evolutionary scale	l most advanced in		
	A. Annuals			
	B. Biennials			
	C. Perennials			
	D. All are equally evolved	()		
8.	The endodermis layer is also known as			
	A. Protein sheath			
	B. Starch sheath			
	C. Starch protein sheath	()		
	D. Protein lipid sheath	()		
	2,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
9.	Identify the family which is most widely distributed in differ habitats	ent ecological		
	A. Liliaceae			
	 B. Apocyanaceae 			
	C. Palmaceae			
	D. Poaceae	[]		
10.	Association between fungus hyphae and plant root is termed	as		
	A. Rhizobiota			
	B. Mycorrhiza			
	C. Rhizoflora	[]		
	D. Mycobiota			
11.	Which law of thermodynamics explains ten % rule of energ ecosystem?	y flow in the		
	A. 1st law of thermodynamics			
	B. 2 nd law of thermodynamics			
	C. 3 rd law of thermodynamics			
	D. both 1 st and 2 nd law of thermodynamics	()		
	D. Dom , and a land of the lan			

12.	Mutualism is the result of following type of interaction between two species						
	A. Positive and neutral						
	B. Positive and negative						
	C. Positive and positive						
	D. Negative and negative						
	D. Hoganie and negative			4	(]	
13.	If two closely related populations d isolation is referred to as	iffer in th	eir breed	ling seas	on th	е герго	ductive
	A. Ecological						
	B. Ethological						
	C. Geographical						
	D. Temporal				ſ	1	
	D. Temporal				,	,	
14.	Which of the following microbes w of DNA?	as extens	ively use	ed in dise	cove	ing gen	etic role
	A. Pneumococcus					, 89	
	B. Salmonella						
	C. Clostridium						
	D. Bacillus				ſ)	
						,	
15.	All viruses are composed of any one of the following combinations						
	A. Nucleic acid and lipids						
	B. Nucleic acid and proteins						
	1. TO THE COURT OF THE PERSON						
	C. DNA and proteins					1	
	D. RNA and proteins				[)	
16.	Neurohypophysis of the pituitary gland secretes one of the following						
	A. ADH						
	B. LTH						
	C. ACTH						,
	D. Thyroxine						
	D. Thytoxine				()	
17.	In which of the following situations a mammalian cell will swell						
	A. 0.9% NaCl						
	B. 0.9% KCl						
	C. 1% NaCl						
	D. 0.75% NaCl				(]	
	2. 0.707011401				ι	,	

18.	The metal ion associated with oxygen evolving system in chloroplast is				
	A. Mg ⁺⁺ B. Mn ⁺⁺				
	C. Fe ⁺⁺	()			
	D. Ca ⁺⁺	()			
	D. Ca				
19.	One of the following is the larval form of Poriferra				
	through the of the control of the co				
	A. Ephyra				
	B. Glochidium				
	C. Trochophora				
	D. Parenchymula				
	araprasidasas • care e ;	[]			
20.	Archaeopteryx forms a connecting link between				
	A. Amphibians and birds				
	B. Reptiles and mammals				
	C. Birds and mammals				
		<i>(</i>)			
	D. Reptiles and birds	()			
21.	The phenomenon of torsion in the typical gastropod white embryo rotates the visceral mass upon the head and food	ich occur in the early d by			
	A. 180° clockwise rotation				
	B. 360° clockwise rotation				
	C. 180° anticlockwise rotation				
	D. 360° anticlockwise rotation	()			
	D. 300 anticlockwise lotation	()			
22.	Ligaments join the mandibles in				
	A. Lizards				
	B. Snakes				
	C. Fishes	()			
	D. Birds	()			
23.	The skin and the nervous system in animals is derived to	from the germinal layer			
	@				
	A. Ectoderm				
	B. Mesoderm				
	C. Endoderm	()			
	 D. None of the above 	[]			

24.	Mark the odd one out of the following			
	A. Urodela			
	B. Squamata			
	C. Anura			
	D. Gymnophiona	[]		
	2. Cynniophiona	l J		
25.	Read the statements and answer: A. Dogs and wolves are placed together if B. Dogs and wolves have structural simil getting them in the same species.			
	A. Both the statements are true			
	B. A is true			
	C. Both the statements are false	1 - 10 - 1 - 1 - 1 - 1 - 1		
	D. B is true	[]		
	D. B is true			
26.	Biomembrane has a lipid bilayer structure because of presence of			
	A. Nonpolar lipid			
	B. Membrane proteins			
	C. Amphipathic lipid			
	D. Membrane bound sugars	()		
27.	Anticodon sequence is present in			
	A. mRNA			
	B. tRNA			
	C. DNA			
	D. Amino acid	()		
	D. Annio acid			
28.	The origin of Asafoetida (Hing), an aromatic cond	liment is		
	A. Bark			
	B. Root or rhizome			
	C. Fruit			
	D. Coelentrate	()		
29.	FSH is related to			
	A. Pituitary			
	B. Thyroid			
	C. Pancreas	J		
	D. Prostrate	()		

()

30.	Following	is not an	example of	genetic disorder
50.	ronowing	15 HOL all	champic of	genetic disorder

- A. Albinism
- B. Galactosemia
- C. Turner syndrome
- D. Kala-azar or black sickness

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