# **ZOOLOGY**

1.	Arrangethe externalopenin Set -I	Arrangethe externalopeningsandtheirsegmental numbers of Pheretima Set -I Set-II				
	A.Male genital apertures 1) Between 12/13 to last segment B.Dorsal pores 2) From 3rd to last segment					
	C.Spermathecal	athecal 3) 18th segment apertures				
	D.Nephridiopores	4) From 5/6 to 8/9 segments				
	a)A-2, B-1, C-3, D-4	b) A-3, B-1, C-4, D-2				
	c)A-3, B-4, C-2, D-1	, D-1 d)A-2, B-3, C-1, D-4\				
2.	The largest class in the kingdom Animalia is					
		natoda	c)Arachnida	d) Insecta		
3.	The hormone used for suppressing allergies, rheumatoid arthritis and tissue inflammation is :					
	(a) Mineralo corticoid (b) Gl	ucocorticoid	(c) Thyroxin	(d) Adrenalin		
4.	Silicosis is caused by  (a) Acid rains (b) Depletion of Ozone (c) Inhalation of aerosols (d) Inhalation of sulphur dioxide					
5.	Assertion (A):Urinary bladder can considerablybe distended to accommodate urine Reason (R): It is lined by stretchable pseudostratified epithelium.					
a) Both (A) and (R) are true and (R) is correct explanation of (A)						
<ul> <li>b) Both (A) and (R) are true and (R) is not correct explanation of (A)</li> <li>c) is true but (R) is false</li> <li>d) Both (A) and (R) are false</li> </ul>				tion of (A)		
6.	. Match the following	***	•			
	List-I ~' A)Cervus e/aphus hanglu	Llst- I I) Kolk				
	B)Ailurusochraceus	Donard British	shriliri stag			
	C)ZSI	III) Red Panda				
	D) Earth Summit IV) Rio detla					
	a)A-I, B-II, C-III, D-IV	The state of the s				
	c)A-II, B-III, C-I, D-IV	d) A-II, B-III,	C-IV, D-I			
7.	Which of the following is needed by Linnaeus	ot a category i	ncluded in the	taxonomic hierarchy		

c) Family

d) Class

a) Kingdom

b) Order



8. Rabbits dental formula is

a) 2/1; 0/0; 3/2; 3/3 b) 1/2; 0/2; 0/2; 3/3

c) 1/2; 0/2; 3/0, 3/3 d) 2/2; 1/1; 2;2, 2/2; 3/3

9. The scientific name of peacock is

a)Corvus . b)Pavo cristatus c) Gallus gallus d) Columba livia

10. In mammals teeth are formed twice in the lifespan, hence the denitition is called

a) Monophyodont

b) Polyphyodont

c) Diphyodont

d) Triphyodont



#### **BOTANY**

- 1. Cell above the egg cell in the archegonial venter in funaria is
  - a. operculum
  - b. neck canal cell
  - c. venter cenal cell
  - d. lid cell
- 2. Chemical attractant in chemotaxis of antherozoids in funaria is
  - a. Mucilage
- b)suger
- c)malic acid
- d)water
- 3. Inverted omega –like arrangement of vascular bundles is present in the anatomy of the following structure of Cycas
  - a. corolloid roots
  - b. roots
  - c. leaflet
  - d. rachis
- 4. A substitute tissue for lateral veins found in Cycas leaflets is
  - a. transfusion tissue
  - b. additional palisade layers
  - c. centripetal xylem
  - d. centrifugal xylem
  - e.
- 5. Identify the correct ascending order of the important event in the history of virology with reference to their discovery year
  - a. nucleoprotein nature of viruses
  - b. causal agents of tobacco mosaic disease are filterable
  - c. TMV crystallization
  - d. Bacteriophages
- 6. Study the following table

SI NO:	DISEASE	PATHOGEN	SYMPTOM
I	Blast of paddy	Pyriculariaoryzae	Leaf sheath turns blackish
п	Red rot of sugarcane	Cercosporapersonata	Discolouration of leaves is the first symptom
Ш	Grain smut of sorghum	Sphacelothecasorghi	The grains are converted in to blackcoloured spore sacs
IV	Citrus canker	Xantho monas citri	Plant show early defoliation

Which two disease show the correct combination?

- a. i&ii
- b. ii & iii
- c. iii & iv



d. i & iii

### 7. Bio –pesticide is

- i. baculo virus ii. Agrobacteriumiii. Bacillus thuringiensis iv.escherichia coil
- a. i & ii are correct
- b. ii & iii are correct
- c. i & iii are correct
- d. iii & iv are correct

e.

#### 8. One of the following is not a criteria for determining the essentility of an element

- a. The element is directly requird in vegetative and reproductive stages of the plant
- b. the element is distributed in all parts of the plant equally
- c. the deficiency sympotoms of an element expressed by the plant can be remove by adding only the same
- d. the element -role in the plant nutrition is direct

### 9. Study the following

	Macro element	Chemical symbol	Available form
I.	Nitrogen	Ni	$NO_2^-, NH_3^+$
II.	Oxygen	$O^3$	CO,CO <sub>3</sub>
III. IV.	Magnesium	$\mathbf{M}\mathbf{g}$	${f Mg}^{+2}$
	Sulphur	S	$SO_4^{-2}$

#### Which two disease show the correct combination?

- a. i&ii
- b. ii & iii
- c. iii & iv
- d. ii & iv

## 10. In chlorophyll-b methyl group is present on

a. pyrrole ring-II b)pyrrole ring-II c)pyrrole ring-III d)pyrrole ring-IV

