SAMPLE PROBLEMS

(BIOLOGY)

1.	Which one of the following statement is wrong?							
	(a)	Chlorella and Spirulina are used as space food						
	(b) Mannitol is stored food in Rhodophyceae							
	(c)	Algin and carragen in are products of algae						
	(d)	Agar-agar is obtained from Gelidium and Gracilaria						
2.	A m	major characteristic of the monocot root is the presence of						
	(a) Vaculature without cambium							
	(b) Cambium sandwiched between phloem and xylem along the radius							
	(c) Open vascular bundles							
	(d)	Scattered vascular bundles						
3.	In a ring girdled plant							
	(a)	The shoot and root die together	(b)	Neither root nor shoot will die				
	(c)	the shoot dies first	(d)	the root dies first				
4.	Gastric juice of infants contains							
	(a)	pepsinogen, lipase, rennin	(b)	amylase, rennin, pepsinogen				
	(c)	maltase, pepsinogen, rennin	(d)	nuclease, pepsinogen, lipase				
5.	Min	nt growth include						
	(a) potassium, phosphorus, selenium, boron							
	(b)) magnesium, sulphur, iron, zinc						
	(c)	(c) phosphorus, potassium, sulphur, calcium						
	(d)	calcium, magnesium, manganese, copper						
6.	Eryt	Erythropoiesis starts in						
	(a)	Spleen (b) Red bone marrow	(c)	Kidney (d) Liver				
7.	Which one of the following statements is incorrect ?							
	(a)	(a) The competitive inhibitor does not affect the rate of breakdown of the enzyme-substrate complex						
	(b)	The presence of the competitive inhibitor decreases then Km of the enzyme for the substrate						
	(c) A competitive inhibitor reacts reversibly with the enzyme to form an enzyme-inhibit compelx(d) In competitive inhibition, the inhibitor molecule is not chemically changed by the enzyme.							

8. Capacitation refers to changes in the

(a) ovum after fertilization

(b) sperm after fertilization

(c) sperm before fertilization

(d) ovum before fertilization

9. Which of the following represents the correct combination without any exception?

	Characteristics	Class
(a)	Sucking and circular mouth; jaws absent; integument without scales; paired appendages	Cyclostomata
(b)	Body covered with feathers; skin moist and glandular; fore-limbs forms wings; lungs with air sacs	Aves
(c)	Mammary gland; hair on body; pinnae; two pairs of limbs	Mammalia
(d)	Mouth ventral; gills without operculum; skin with placoid scales; persistent notochord	Chondrichthyes

10. Which one of the following matches is correct?

(a)	Mucor Reproduction by Conjugation		Ascomycetes
(b)	Agaricus	Parasitic fungus	Basidiomycetes
(c)	Phytophthora	Aseptate mycelium	Basidiomycetes
(d)	Alternaria	Sexual reproduction absent	Deuteromycetes

ANSWERS

(BIOLOGY)

1. (b)

2. (a)

3. (d)

4. (a)

5. (c)

6. (d)

7. (b)

8. (c)

9. (d)

10. (d)