# RAMAKRISHNA VIVEKANANDA MISSION MODEL QUESTION FOR ANNUAL EXAM 2020 SUBJECT- LIFE SCIENCE (ENGLISH MEDIUM)

**CLASS-IX** 

**Full Marks-90** 

Group	– A
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			Answer to all gue		y 1 X 14 = 14		
1) (	hoos	Answer to all questions is compulsory se the correct answer : -			y 1 X 14 = 14		
1) (		In the course of orga		nae emerged in the	following period:		
	a)	i) Cambrian			- ·		
	b)	i) Cambrian ii) Ordovician iii) Permian iv) None of these The branch of biology that deals with the study of molluses is: -					
	D)	_	-		ornithology		
	c)	i) Mycology ii) Malacology iii) Entomology iv) o Naked seeds are present in :			) or intriblogy		
	C)	i) Thallophyta		iii)Gymnosperni	s iv) Byophyta		
	d)				totrophic and heterotrophic		
	u)	organism is:	ricidues edicai yotic, i	urnicential, both au	otropriic and neterotropriic		
		<b>S</b>			y) Rantac		
	۵۱	Site of kreb cycle is:	ii) ivionera	iii) i urigi — i	n) Karitac		
	<del>C</del> )	i) Cytoplasm	ii) Mitochondria	iii) Ribosome	iv) None of these		
	f)	Total parasite on Ho	•	III) KIDOSOITIE	iv) None of these		
	1)	i) Dodder	ii) Mucor	iii) Agaricus	iv) Pinus		
	g)	A lipolytic enzyme is	•	iii) Agaricus	10) 1 11103		
	9)	i) Amylase	ii) Renin	iii) Lipase	iv) Sucrase		
	h)	The main inorganic of	,		iv) sucrase		
	'''	i) Urea	ii) Ammonia		y) Uric Acid		
	i)	The functional site o	,	•	•		
	'/	i) Paratop	ii) Epitop	iii) Antivenom	iv) None of these		
	j)	The largest antibody		my runtivorioni	iv) None of those		
	٦/	i) IgM	ii) IgG	iii) lgE	iv) IgD		
	k)	Haemocyanin pigme	. •	, .9=	, .95		
	,	i) Copper	ii) Magnesiam	iii) Zinc	iv) Potassiem		
	I)	Neptune's cup belor	, ,	,	,		
	•,	i) Ctenophora		iii) Cnideria	iv) Nemetoda		
		,	,	,	,		
	m)	Single membrane bo	und organelle is:				
	,	· ·	a ii) Golgi Bodies	iii) Ribosome	iv) chlorophyll		
		,	, 0	·	, , ,		
	n) The microelement which influences plant development and regulates osmotic						
		i) Zinc	ii) Chlorine	iii) Sodium	iv) None of these		
			Group	– B			
2. Fill in		lanks (answer any fiv			1 X 5 = 5		
		of WB					
		Blood pressure is me		of arte	ery.		
	c)	is called th					
	d)	is the l					
	e)				ded particles in one direction.		
	f)		smoregulation and a				
3. Write	true	or false against the fo	ollowing statements	(answer any five)	1 X 5 = 5		

a) Glomerulus helps in ultra filtration.

- b) Blood goes to the lungs by the systole of right auricle.
- c) Tannins are carbonaceous excretory products of plants.
- d) Ovary produces female sex organ oestrogen and progesterone.
- e) Dark reaction is fully dependent on light reaction.
- f) Prokaryotic cell-wall is composed of cellulose.

# 4. Answer in one sentence (any ten)

1 X 10 = 10

- a) Write the name of the hormone that regulates transpiration.
- b) Which alkaloid is used in the treatment of eyes?
- c) Write the name of two pigments present in bile.
- d) Name one natural and one artificial coagulant.
- e) What is papine?
- f) Write the name of two enzymes present in intestinal juice.
- g) Write the name of two non-proteinaceous nitrogenous substance present in blood.
- h) Name the mineral which prevents tetany.
- i) Name the only living tissue in xytem.
- j) Write one important function of centrosome.
- k) Name two parts of the body where stratified cubical epithelium tissue is found.

### Group - C

## 5. Answer in brief (any twelve)

2 X 12 = 24

- a) Write two differences between light phase and dark phase.
- b) Differentiate epitope and paratope.
- c) Write two important differences between Chondrichthyes and Osteichthyes.
- d) Write a short note on-
  - First class protein
  - Second class protein
- e) Write two important differences between amino acid and fatty acid.
- f) Write two important functions of Zinc in human body.
- g) What do you mean by carbon assimilation?
- h) Explain the four external factors which effect the rate of transpiration.
- i) Explain four important functions of lymph.
- i) What is ICF?
- k) Name the two vitamins which are responsible for the maturation of RBC.
- I) Name four non-nitrogenous excretory product in plant and animal.
- m) Defined vaccination and write its principle.

#### Group - D

#### 6. Answer four questions or there alternatives given below:

8 X 4 = 32

- Write four important differences between annelid and arthropoda with examples. 6.a)
- 6.b) Describe symbiotic nutrition with example.

4

4

4

- Define accessory respiratory organs with examples. 6.a)

Describe the structure accessory respiratory organ in – i) koi (Anabas Testutineus) 6.b)

ii) Magur( Clarius Batrachus)

- Write the sources, substrats and role in digestion of the following enzymes- (2 ½ + 2 ½ )=5 6.c)
  - i) Trypsin
  - ii) Lactase
- Write the important functions of nephron 6.d)

3

Define Mycorrhiza mentioning its types 6.c)

2 + 2 = 4

6.d)	Match the following:			4	
	Column A		Column B		
a)	Largest WBC	i)	Trachea		
b)	Grass hopper	ii)	Monocyte		
c)	Muscle formentation	iii)	Potassium Ferric Oxalate		
d)	Artificial hill reagent	iv)	Lactic Acid		
6.e) 6.f)	Draw a typical nephron (without peritubular capillaries.) Label atleast four parts.				
6.e) 6.f) 6.g) 6.h)	Or, Write the endocrine and exocrine function of testis. Mention two main functions of brain. Discuss the mechanism of ascent of sap explained by the theory of Dixon and Jolly. Write the significance of respiration.				
6.g) 6.h)					