SECOND TERMINAL EXAMINATION, 2014

BIOLOGY

Time: 3½ hrs. Class - XI M.M.: 70

Date - 05.03.2014

General Instructions:

- All the questions are compulsory.
- This Question paper consists of **four Sections** A, B, C and D. Section A contains **8 Questions** of **1 mark** each. Section B contains **8 questions** of **2 marks** each. Section C contains **7 questions** of **3 marks** each. Section D contains **3 questions** of **5 marks** each.
- Question No. 27 is OTBA question on theme II carrying 10 marks..
- There is no overall choice. However, internal choices are provided in one question of two marks, one question of three marks and three questions of five marks. You have to attempt only one of the alternatives in such questions.
- Draw neat and labelled diagrams, wherever necessary.

SECTION A

- **Q.1** Name the highest and lowest taxonomic category.
- **Q.2** Give two distinctive features of kingdom Monera.
- **Q.3** Differentiate between Racemose and cymose inflorescence.
- **Q.4** What is crossing over?
- **Q.5** Give two examples of secondary meristem.
- **Q.6** Give two examples of Red algae.
- **Q.7** Where is cuboidal epithelium found in man?
- **Q.8** Name the phylum to which these organisms belong
 - a) Ascaris
- b) Starfish
- c) Myxine
- d) Sponge

SECTION - B

- **Q.9** Draw the Zwitterionic form of Amino acid. Name a basic and acidic amino acid.
- **Q.10** Draw a labelled diagram of Metaphase of mitosis.
- **Q.11** Explain the following terms:
 - a) water potential
- b) pressure potential
- **Q.12** What is the role of Boron and Copper in plants?
- **Q.13** Draw a labelled diagram of electron transport chain.
- **Q.14** Give the importance of Auxin in plants.
- **Q.15** Describe Expiration and Inspiration in man.
- **Q.16** Differentiate between the following:
 - a) blood and lymph
 - b) Systemic and pulmonary circulation

OR

Draw a labelled diagram of cross section of kidney.

SECTION - C

Q.17	Explain sliding filament theory in muscles.											
Q.18	Give	Give the function of the following hormones.										
	a)	ACTH	b) .	ADH	c)	Gluca	gon		d)	Oestrogen		
Q.19	Draw a cross section of eye.											
Q.20	Explain symplast and Apoplast pathway of transport.											
Q.21	Give the function of the following:											
	a)	Trypsin	b) 1	Rennin	c)	Sucras	se	d)	HC1			
	e)	Lipase	f) j	ptylin								
Q.22	Explain cardiac cycle in man with diagram.											
Q.23	Describe EMP pathway.											
			OR									
	Explain the following terms in short											
	a)	F-actin	1	b) Rub	oisco		c)	Maste	r gland			
				SI	ECTIO	N – D						
Q.24	Expl	Explain Meiosis with labelled diagrams.										
	OR											
	Desc	Describe the counter current mechanism in kidney.										
Q.25	Expl	Explain transmission of nerve impulse across a synapse.										
	OR											
	Expl	ain Kreb's cy	ycle.									
Q.26	Describe the Life cycle of a fern.											
	OR											
	Give	Give the function of the following:										
	a)	Tracheids	and Vessel	s b)	Plasi	molysis		c)	Nitrog	genase		
	d)	Gastrin		e)	Sarc	omere						
Q.27	Sect	ion – Open T	Гext – Bas	ed assessn	nent (O	TBA)						
	Instructions:											
	• T	hese question	ns are base	d on theme	e-II prov	vided to	you by	the Bo	ard.			
	o v b a	on the question, your answer could be shorter/longer. It is important to present your views, arguments and conclusions logically, coherently in your own language; based on the concepts learnt during teaching learning sessions till class IX, their applicability with respect to the open test material and your own awareness of the given theme.										
		play a vital	l role in eco	onomic an	d indust	rial deve	elopme	nt of o	ır coun	try.	(5)	
	b) Is construc	ting roads	through de	ense for	est benef	icial?	write y	our vie	ws on this.	(5)	