## BOARD QUESTION PAPER: OCTOBER 2015 BIOLOGY

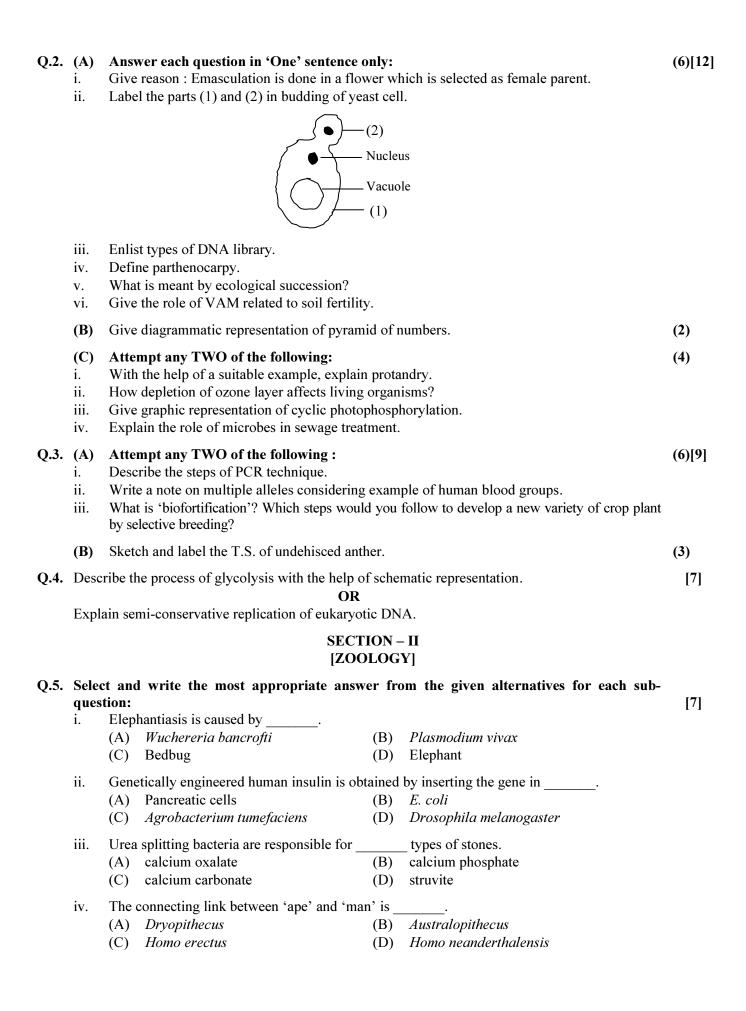
			D	IULU	JG 1		
Time: 3 Hours Note:						)	
Note i.		mestic	ons are compulsory.				
i. ii.			o Section-I and Section-II should	d be written it	Two Separate answer books		
ii.	Ques	stions			ok of Section-II and vice-versa will not be		
v.	Drav	Draw neat and labelled diagrams wherever necessary.					
· •	Figu	Figures to the right indicate full marks.					
i.	Ansv	ver to	every new question must begin	on a new pag	e.		
				SECTION -	- I		
				[BOTANY	7]		
<b>).1.</b>		ct and	d write the most appropriat	e answer fro	om the given alternatives for each sub-	[7]	
	i.	How	many meiotic divisions will be r	needed to prod	uce 44 female gametophytes in angiosperms?		
		(A)	11	(B)	22		
		(C)	44	(D)	66		
	ii.	If the	e codon on m-RNA is AUG, the	e compatible a	nticodon on t-RNA is		
		(A)	UAG	(B)	UAC		
		(C)	GUA	(D)	AUC		
	iii.		enzymes are used as biolog	gical scissors	in r-DNA technology.		
		(A)	Restriction endonucleases	(B)	DNA ligases		
		(C)	DNA polymerases	(D)	Reverse transcriptases		
	iv.	Vege	etative propagation takes place	with the help	of leaves in plant.		
		(A)	Kalanchoe	(B)	Oxalis		
		(C)	Cynodon	(D)	Dahlia		
	v.	Tric	hoderma konigi is a source of	enzyn	ne.		
		(A)	invertase	(B)	lipase		
		(C)	pectinase	(D)	cellulase		
	vi.	What (A) (B) (C) (D)	Attachment, Penetration, Multiplicar Attachment, Lysis, Multiplicar Attachment, Lysis, Multiplicar	s, Multiplicat tiplication, Ly tion, Attachm	ion rsis ent		
	vii.	Edib	ele fruiting bodies are produced	by			

(B) Rhizopus

(D) Agaricus

(A) Yeast

(C) Nostoc



	v.	Crippling disease is caused due to poisoning of					
		(A) Arsenic (B) Lead					
		(C) Mercury (D) Selenium					
	vi.	The genetic marker used as key factor in DNA fingerprinting is					
		(A) VNTRs (B) Exons					
		(C) Introns (D) DNA probes					
	vii. The trophoblast cells in contact with embryonal knob are called .						
		(A) Inner mass cells (B) Blastomere					
		(C) Amniogenic cells (D) Cells of Rauber					
Q.6.	<b>(A)</b>	Answer the following in 'One' sentence each:	(6)[12]				
<b>~</b>	i.	Mention any 'two' methods used to prevent spoilage of fish.					
	ii. Define the term 'genome'.						
	iii.	What is meant by organic evolution?					
	iv.	What is criss-cross inheritance?					
	v.	Mention any 'two' functions of uterus.					
	vi.	What is Red Data Book?					
	<b>(B)</b>	Sketch and label the structure of chromosome.	(2)				
	<b>(C)</b>	Attempt any TWO of the following:	(4)				
	i.	Explain the concept 'survival of the fittest'.	,				
	ii.	Give economic importance of apiculture.					
	iii.	Give the importance of transgenic animals.					
	iv.	Explain the mechanism of sex determination in human being.					
Q.7.	<b>(A)</b>	Attempt any TWO of the following:	(6)[9]				
	i.	Describe T.S. of the spinal cord.					
	ii.	Explain the structure of antibody.					
	iii.	Give the effects of air pollutants on human health.					
	<b>(B)</b>	Sketch and label L.S. of human kidney.	(3)				
Q.8.	With the help of a labelled diagram describe the internal structure of human heart.						
		OR					
	Describe the stages during three trimesters of pregnancy. Explain the process of parturition. Add a						

note on lactation.