Date: 06.10.2010 BIOLOGY PAPER- I

Time: 2 Hrs. Question Paper: October 2010 Max. Marks: 40

(General Biology and Botony)

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2. 1.	Select and write the most appropriate answer from the given alternatives	(8)
	for each sub-question.	
	(i) Which of the following is an endangered species, in India ?	7
	(a) Rauwolfia serpentina (b) Zizyphus jujuba	
	(c) Delonix regia (d) Mangifera indica	
	(ii) Which of the following plants belongs to family "Meliaceae"?	
	(a) Adhatoda vasica (b) Ocimum sanctum	
	(c) Asparagus, racemosus ST (d) Azadirachta indica PERS.COM	
	(iii) One of the following plants does not follow HSK pathway.	
	(a) Coconut (b) Maize (c) Sugarcane (d) Amaranthus	
	(iv) The correct sequence from periphery to the centre of angiospermic ovule is .	
	(a) Integuments, nucellus, embryo sac, secondary nucleus	
	(b) Integuments, embryo sac, secondary nucleus, nucellus	
	(c) Integuments, embryo sac, nucellus, secondary nucleus	
	(d) Integuments, secondary nucleus, embryo sac, nucellus	
	(v) Which type of natural resource the water is ?	
	(a) Exhaustible renewable (b) Exhaustible non-renewable	
	(c) Inexhaustible (d) Artificial non-renewable	
	(vi) The process of casing is related with	
	(a) Tissue culture (b) Anther culture	
	(c) Mushroom culture (d) Silviculture	
	(vii) Acetylation is connecting link between	
	(a) Glycolysis and ETS (b) Glycolysis and Kreb's cycle	
	(c) Glycolysis and Calivin's cycle (d) Kreb's cycle and ETS	
	(viii) Bryophyllum reproduces vegetatively by means of	
	(a) Seed (b) Stem (c) Leaf (d) Root	
0. 2	(A) Explain the process of plasmolysis. OR	(2)
	Distinguish between self pollination and cross pollination.	
	(B) Write the medicinal uses of Ocimum sanctum and Adhatoda vasica.	(2)
	OR	
	Write a note on somatic hybridization.	
	(a) Expiant the bitters - Francisco	(2)
	(D) Oliotoli alla landi.	(2)
Q. 3		(2)
		(2)
	Describe the hazards of deforestation.	
		(2)
	D) Cite the important	(2)
	Give adaptations for anemophily.	
Q. 4	Attompt any 1110 or and 10110111110	(8)
	(A) Explain the biosynthetic phase of photosynthesis.	
	(B) Give physiological effects of auxins and abscisic acid.	
	(C) Describe the structure of root hair. Explain the absorption and movement	
	of water from soil to xylem of root.	/O1
Q. 6	n Describe the official of the control of the contr	(8)
	(M) Booking the contribution	(4)
	(B) Explain Kreb's cycle.	(4)