INDIAN SCHOOL MUSCAT

FIRST PRELIMINARY EXAMINATION

JANURARY 2019

SET B

CLASS XII

Marking Scheme – BIOLOGY [THEORY]

UNCOMMON QUESTIONS 2 20% 5 Aedis mosquito 1 The collection of all the diverse alleles of all the genes of crop plant is called germ plasm collection In plant breeding programmes, the germplasm provides the entire of genes and alleles, and the characterstics which they express. The plant breeders select the most favourable characters of a particular gene and manipulate its transfer to a desirable parent. OR Brandy/Beer 11 eurythermal and stenothermal with definition 14 Paleontology is the study of fossils. It indicates The geological time period in which the organisms existed. That life forms varied over time and certain life forms are restricted to certain geological time pans. That new forms of life have appeared at different times in the history of earth. 17 Periodic abstinence , withdrawal , lactational amenorrhea	Marks (with
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water.Biological treatment or Secondary treatment Sample . C. is most polluted	
because it has highest BOD level among the three samples of water.	
23 Grass,phytoplanktons,GPP is the rate of Biomass production /g/yr whereas NPP is	
1+1+1 the rate of Biomass converted into plant matter and available for the	
consumers (NPP=GPP-Respiration), Oceans have less solar energy available compared	
to land hence productivity is lower.	

24	Cross	2+2+1
	1:2:1 for both	
	Incomplete dominance with definition	
	OR	
	DNA polymerase, unwind, new strand 5'-3'. Deoxyribonucleotide	
	triphosphates added. Leading and lagging strands. Ligase. diagram	
26		2 ½+2 ½
	ii)leachingiii)catabolism.Humificationandmineralization—humificationleadsto	
	accumulationofdarkcoloursubstancecalledhumus.Mineralisationresultinreleaseof	
	inorgranic substances a)climaticfactor—	
	i)tempii)soilb)chemicalqualityofdetritus.Highertempandmoist condition – high	
	rate of decomposition.Drysoil ,High temp-Lowrate	
	OR	
	a) Conventional sedimentation, filtering and chlorine treatment. Absorption and	
	assimilation of pollutants by algae fungi and bacteria. (b) .Ecosan. derived from	2+3=5
	ecological sanitation. Handling human excreta using dry composting toilets. Its	
	practical, hygienic and cost effective method.	