

INDIAN SCHOOL MUSCAT
HALF YEARLY EXAMINATION
SEPTEMBER 2019

SET C

CLASS XII

Marking Scheme – BIOLOGY [THEORY]

UNCOMMON QUESTIONS OF SET A

Q.NO.	Answers	Marks (with split up)
2	During succession/ Hydrarch succession/ Xerarch succession	1
3	A rapid decline in death rate, maternal mortality rate (MMR) and infant mortality rate (IMR) as well as an increase in number of people in reproducible age.	$\frac{1}{2} + \frac{1}{2}$
6	Thomas Hunt Morgan/ Drosophila Melanogaster/ Easy to culture in the lab/complete life cycle in 2 weeks.	$\frac{1}{2} \times 4$
11	(a) Speciation is generally a function of time, unlike temperate regions subjected to frequent glaciations in the past, tropical latitudes have remained relatively undisturbed for millions of years and thus, had a long evolutionary time for species diversification, (b) Tropical environments, unlike temperate ones, are less seasonal, relatively more constant and predictable. Such constant environments promote niche specialisation and lead to a greater species diversity and (c) There is more solar energy available in the tropics, which contributes to higher productivity; this in turn might contribute indirectly to greater diversity. (Any two)	1 x 2
13	Thorns (Acacia, Cactus) are the most common morphological means of defence. Many plants produce and store chemicals that make the herbivore sick when they are eaten, inhibit feeding or digestion, disrupt its reproduction or even kill it. A wide variety of chemical substances that we extract from plants on a commercial scale (nicotine, caffeine, quinine, strychnine, opium, etc.,) are produced by them actually as defences against grazers and browsers. OR Orchid and Mango tree, cattle and egret, barnacle and whales.	1 x 3