

INDIAN SCHOOL MUSCAT
SECOND PRELIMINARY EXAMINATION
FEBRUARY 2019

SET B

CLASS XII

Marking Scheme – BIOLOGY [THEORY]

Q.N O.	Answers	Marks (with split up)
1.	UNCOMMON QUESTIONS	1
2.		1
3.	Ig A and Ig E	1
4.		1
5.	Genetic diversity	1
6.		2
7.	If there is a change in allele frequency this may be due to gene migration or genetic drift or mutation due to sexual reproduction or natural selection which leads to evolution.	2
8.		2
9.		2
10.		2
11.	Proinsulin contains chain-a,b and c. When C chain is removed, it becomes functional insulin.	2
12.		2
13.		3
14.	They reduce the cost of developing seeds by artificial hybridization method. The desired traits are maintained with no segregation year after year.	3
15.		3
16.	Two species of sugarcane <i>Saccharum barberi</i> and <i>Saccharum officinarum</i> were crossed to get a variety which had thick stem, high sugar content, high yield and ability to grow in North India.	3
17.		3
18.		3
19.	<i>Salmonella typhi</i> causes typhoid. Diagnostic symptoms are constipation, stomach pain, headache, weakness, loss of appetite, high fever. The disease is transmitted through contaminated food and water.	3
20.		
21.		3
22.		3
23.	a) Population density can be counted by physical counting, percent cover or total biomass, from relative density such as bacteria in water, counting pug marks or counting faecal pellets of an animal in forest. b) It will let us know the status of habitat, whether competition for survival exists or	3

	not, whether population is increasing or declining.	
24.		3
25.		5
26.		5
27.		5