

**INDIAN SCHOOL MUSCAT**  
**HALF YEARLY EXAMINATION**  
**SEPTEMBER 2019**

**SET B**

**CLASS XII**

**Marking Scheme – BIOLOGY [THEORY]**

**UNCOMMON QUESTIONS OF SET A**

Q.NO.	Answers	Marks (with split up)
1	Water required for gamete transfer/ water needed for germination of spores	1
3	Motivate smaller families by using various contraceptive methods/incentives given to couples with small families ( any one).	1
6	Five closely related species of warblers living on the same tree were able to avoid competition and co-exist due to behavioural differences in their foraging pattern.	2
9	Beta galactosidase, permease and transacetylase.	$\frac{1}{2} \times 3$
14	She is a carrier as her father was colour blind. (1) If she marries a normal man, 25% of her sons can be colourblind and 25% of her daughters could be carrier. ( $\frac{1}{2} + \frac{1}{2}$ )/ Cross (1)	3
2	Parturition is induced by a complex neuroendocrine mechanism. /The signals for parturition originate from the fully developed fetus and the placenta which induce mild uterine contractions called foetal ejection reflex./ This triggers release of oxytocin from the maternal pituitary. /Oxytocin acts on the uterine muscle and causes stronger uterine contractions, which in turn stimulates further secretion of oxytocin./ The stimulatory reflex between the uterine contraction and oxytocin secretion continues resulting in stronger and stronger contractions. /This leads to expulsion of the baby out of the uterus through the birth canal – parturition.	$\frac{1}{2} \times 6$