

INDIAN SCHOOL MUSCAT
SECOND PERIODIC TEST
SET - C

QP.NO.	VALUE POINTS	SPLIT UP MARKS
1.	Purine with pyrimidine	1
2.	AUG- start codon; UAG- stop codon ½ m each	1
3.	Louis Pasteur	1
4.	Technique of obtaining identical copies of particular DNA Segment/Gene	1
5.	Used radioactive thymidine to detect newly synthesized DNA in the chromosome./ Conclusion- DNA replicates semiconservatively/ 1m each	2
6.	Removal of introns/joining Exons in a definite order.1m/ primary transcript has both exons and introns. 1m	2
7.	Analogous organs/ perform same function but are dissimilar in the basic structure 1 m each OR i) Near Eastern & Central Asia ii) 1400 cc	2
8.	a) definition – 1m b) process of making multiple copies of a DNA segments invitro.	2
9.	Microinjection – animal cell; biolistics or gene gun – plant cells – description 1 m each	2
10.	Replication fork/ role of DNA polymerase/ action of the enzyme with polarity 1 m each OR a) DNA sequence in transcription unit – binding site for RNA polymerase;/ defines the end of transcription./ 2m 23S rRNA of ribosome will act as enzyme in peptide bond formation during translation. 1m	3
11.	Gel electrophoresis. / negatively charged DNA move towards anode under electric field through agarose medium/ DNA fragments resolve according to their size./ stained with Ethidium Bromide/ exposed to UV rays/ elution ½ m each OR Chemical- calcium / heat shock method 2m DNA – hydrophilic/ cannot pass through cell membrane, 1m	3