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(32 A-13)

SARDAR PAT

SARDAR PATEL UNIVERSITY B Sc - YI SEMESTER APRIL-2019

BIOTECHNOLOGY [ZOOLOGY]

US 06 CZOO 05

TIME: 10.00AM-1.00PM	DATE: 03/04/2019 WEDNES	DAY	MARKS: 70	
Q-1 MULTIPLE CHOICE QUASTIONS			[10]	
1. THERE AREBAS	es der turn of B - DNA			
a. 12	B. 13	C. 10	D. 11	
2. THE ENZYME WHICH OPEN TWO STRANDS OF DNA.				
a. HELICASE	B. LIGASE	C. POLYMERASE	D. NUCLEASE	
3. FORMATION OF mRNA FR	OM DNA IS	\IS		
	B. TRANSLATION	C. TRANSLOCATION	D. TRANSCRIPTION	
4. THE TWO SUB UNITS OF P	PROKARYOTIC RNA ARE			
a. 40,30	в. 50,30	C. 60,40	D. 40,50	
5IS ALSO A				
a. C DNA	B. SYNTHETIC	C. RNA	D. ALL	
WHICH IS NON-GENETIC I		C I BNA	D.ALL	
a. rRNA	B. m RNA	C. t RNA	D.ALL	
TISSUE CULTURE LABORA		C. INCUBATOR	D. ALL	
	B. MEDIA	C. INCODATOR	D. ALL	
8. THE MEANING OF VITRO	IN IVF IS B. MICROSCOPE	C. GLASS	D. AL	
a. LABORATORY 9. NEOPLASIA IS ALSO CALLE		q, GD 100	•	
a TUMOUR	B, CANCER	C. BENIGN	D. NONE	
10. IS THE FIRST	T HORMONE TO BE USED IN GENETIC	ENGINEERING.	a TRICENIC	
a. GROWTH	B.SOMATOSTANIN	C. INSULIN	D. TRIGENIC	
Q-2 SHORT QUESTIONS [ANY TEN]			[20]	

- 1. WRITE ABOUT POLYMORPHISM IN DNA
- 2. DRAW A STRUCTURE OF ADENINE
- 3. STRUCTURE OF EUKARYOTIC r RNA
- 4. WHAT ARE PROBES?
- 5. WRITE RULES FOR PREPARATION OF PROBE
- 6. GIVE NAMES OF RESTRICTION ENZYMES PRODUCES BOTH BLUNT AND STICKY ENDS.
- 7. WHAT IS FERTILIZATION?
- 8. DEFINE SUPEROVULATION
- 9. WHAT IS EMBRYO TRANSFER?
- 10. SKETCH AND LABEL THE STRUCTURE OF SPERM CELL
- 11. EMBRYO THERAPY
- 12. EXPLAIN THE TYPE OF TUMORS.

Ų-3	3 (A) EXPLAIN GRIFFITH EXPERIMENT	
	[B] DESCRIBE REPLICATION OF DNA IN EUKARYOTE	[05]
	OR	
Q-3	DISCUSS WATSON & CRICK MODEL OF DNA IN DETAIL	[10]
Q-4	[A] WRITE ABOUT POLYMERASE CHAIN REACTIONS	[05]
	[B] DEFINE PROBES AND IT'S LABELING	[05]
	OR	
Q-4	GIVE AN EXPLANATORY NOTE ON ISOLATION OF DNA.	[10]
Q-5	[A] EXPLAIN SURROGACY	[05]
	[B] EXPLAIN ORGAN CULTURE	[05]
	OR	_
Q-5	DISCUSS CAUSES OF INFERTILITY, ASSESSMENT OF PATIENT AND TREATMENT	[10]
Q-6	GIVE AN ACCOUNT ON APPLICATION OF BIOTECHNOLOGY IN MEDICINE.	[10]
	OR	
Q-6	EXPLAIN ONCOGENESIS IN DETAIL	[10]