STEBOOZ Basic Malecules Biology GOVERNMENT SCIENCE COLLEGE

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Class: Semester: Division: 2010-20												
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GOVERNMENT SCIENCE COLLEGE, 19-20

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58.	Vasuva Stehenjuli	· · · · · · · · · · · · · · · · · · ·	VVG	116	VIR	VVR	1	IVA	JULR	JV.R	VNR	VIR	VYA	VV.P	
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65.	Chaudhar Jincel H.	NY Y		0	Gul	Gul	Ch	G	Cult	Lalle	G	Call	Kal	()	
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69.	Cherrichar Raishner	1 10	K.Q.C	K.a.	Kapit	AND.C	Repa	6A	(D)	and	(m)	KAU-C	a	and	
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71.	Chaudhar Magank P.	1.4000 92	MCN	man p	1100	1112	Mid.	1200	1151.	istel.	1.84	ALM.	1,Cr	and	
72	Chaudhan Nisha b.	assister rad	NIGH	Mish	Nic	NEP	A41	Alter	MUS PO	NH	ALU	NUSA	NISM AL.	I NISM	1
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29	Elandhasi Salmi P.	- Kaline	Jale	Seles	Sil	Sile	Car	fler	All	as	au	Que	- (Ser	gene	1
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GOVERNMENT SCIENCE COLLEGE, 19-20

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93	58.0	SPI	5	21.5	21	5.01	SPI	58.4	300	5.01	5.01	5.8.0		S.P.L	50.10	5.01	5.0.6	3.84	8. P.G.	Tion 2
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GOVERNMENT SCIENCE COLLEGE,

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19-20

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101	Chandhar onvya B.		Voor	Deer	Ver	Que	Qq	Der	Dear	Dog	Der	age	Dear	Den	
124	Chaudhard Diriter R.		Oper	Den	Oct	Dar	(e)	DY?	Salter	000	Serre	OFF.	200	~	
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124	Chandhear Maller SD.	1	(H)0	00	Why	(ru	Que	Ruy	Du	1/2	Au	Mee	Dee	Na	
108	Chemahari minal R.	2	March	niem	moun	migue	Mary	Harry	4	Harry	Miguer	moun	migui	man	
129	Chevidhan Hellin G.		Pres	au	Que	QU	De	18	Be	MUL	MUS	all	aves	Qy	
130	Cherneller Neher M.		R	R	R		R	R	D	2	R	12	AS .	X	
131	Chandhall Nikiter C.	4 3 1	the	Ver	W	de	W	W	W	W	W	M	W	N	
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133	Chendhall Nikeli S.	17.1	Ame	ally	n	8.	nin	- ily	zilit	nby	1	, nu	- nu	nell	ĩ
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Roll Call Register for the Practicals of the 1st / 2nd Term Month_

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Department of Botany Government Science College, Vankal Ta. Mangrol, Dist. Surat AISHE Code: C- 46595



Syllabus covered of Short Term Course

Basic Molecular Biology

Course code: STCBO02 **Course title:** Basic Molecular Biology **Course Duration:** 30 Hours

Week 1: Introduction to Molecular Biology

Day 1-2 (1 hour each)

• **Topic**: Overview of Molecular Biology

Day 3-4 (1 hour each)

• Topic: Historical Milestones

Day 5 (2 hours)

• Topic: Central Dogma of Molecular Biology

Day 6-7

• Review & Reflection (1 hour each)

Week 2: Structure and Function of Macromolecules

Day 8-10 (2 hours each)

• Topic: Structure of DNA and RNA

Day 11-12 (1.5 hours each)

• **Topic**: DNA Replication

Day 13-14 (1 hour each)

• **Topic**: Structure and Function of Proteins

Week 3: Gene Expression and Regulation



Department of Botany Government Science College, Vankal Ta. Mangrol, Dist. Surat AISHE Code: C- 46595



Day 15-16 (2 hours each)

• Topic: Transcription and RNA Processing

Day 17-18 (2 hours each)

• Topic: Translation and Protein Synthesis

Day 19-20 (2 hours each)

• **Topic**: Regulation of Gene Expression

Week 4: Molecular Biology Techniques & Applications

Day 21-22 (2 hours each)

• **Topic**: Polymerase Chain Reaction (PCR)

Day 23-24 (1.5 hours each)

• **Topic**: Gel Electrophoresis

Day 25-26 (1.5 hours each)

• Topic: DNA Cloning and Sequencing

Day 27 (3 hours)

• Topic: Applications of Molecular Biology

Day 28-30

• Review & Assessment (1 hour each)



Department of Botany Government Science College, Vankal Ta. Mangrol, Dist. Surat AISHE Code: C- 46595



Time Table of Short Term Course

Basic Molecular Biology

Course code: STCBO02 **Course title:** Basic Molecular Biology **Course Duration:** 30 Hours

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Day 27 (3 hours)

• Topic: Applications of Molecular Biology

Day 28-30

• Review & Assessment (1 hour each)



Sr. No. SCTBO02/2019-20/30

Date: 30/08/2019

This is to certify that Mr. / Ms. <u>Chaudhari Vishal M</u> has successfully completed Short Term Certificate Course of 30 hours on <u>STCBO02: Basic Molecular Biology</u> offered by Department of Botany from <u>22/07/2019 to 27/08/2019</u> and secured "<u>A</u>" grade during performance evaluation.

fleeleer

Principal

Course Coordinator

Head of the Department



Sr. No. SCTBO02/2019-20/69

Date: 30/08/2019

This is to certify that Mr. / Ms. <u>Chaudhari Krishna D</u> has successfully completed Short Term Certificate Course of 30 hours on <u>STCBO02: Basic Molecular Biology</u> offered by Department of Botany from <u>22/07/2019 to 27/08/2019</u> and secured "<u>A</u>" grade during performance evaluation.

fileeleer

Principal

Course Coordinator

Head of the Department



Sr. No. SCTBO02/2019-20/158

Date: 30/08/2019

This is to certify that Mr. / Ms. <u>Vasava Nisha P</u> has successfully completed Short Term Certificate Course of 30 hours on <u>STCBO02: Basic Molecular Biology</u> offered by Department of Botany from <u>22/07/2019 to 27/08/2019</u> and secured "<u>A</u>" grade during performance evaluation.

fileeleer

Principal

Course Coordinator

Head of the Department



Sr. No. STCBO02/2019-20/164

Date: <u>28/08/2019</u>

This is to certify that Mr. / Ms. <u>Chaudhri Nalin G.</u> has successfully completed Short Term Certificate Course on STCBO02: Basic Molecular Biology offered by Department of Botany from <u>22/07/2019 to</u> <u>27/08/2019</u> and secured "<u>A</u>" grade during performance evaluation.

felecter

Principal

Course Coordinator

Head of the Department



Sr. No. STCBO02/2019-20/164

Date: <u>28/08/2019</u>

This is to certify that Mr. / Ms. <u>Chaudhari Miral R.</u> has successfully completed Short Term Certificate Course on STCBO02: Basic Molecular Biology offered by Department of Botany from <u>22/07/2019 to 27/08/2019</u> and secured "<u>A</u>" grade during performance evaluation.

feleeleer

Principal

Course Coordinator

Head of the Department

Government Science College, Vankal

Department Of Botany

Short Term Course (2019-20)

Course Name: Basic Molecular Biology

Student Name:

Date:

1.	Which of the following is considered the foundational concept	ot of n	olecular biology?
	• a) Evolution	0	c) Natural Selection
	• b) The Central Dogma	0	d) Genetic Drift
2.	Who is credited with the discovery of the double helix structu	ure of	DNA?
	• a) Watson and Crick	0	c) Mendel
	• b) Darwin and Wallace	0	d) Hershey and Chase
3.	What does the Central Dogma of molecular biology describe	?	· ·
	• a) The transmission of genetic	0	c) The replication of DNA
	information from RNA to DNA	0	d) The transcription of RNA to
	• b) The flow of genetic information		DNA
	from DNA to RNA to protein		
4.	Which of the following historical milestones contributed to the	he und	lerstanding of DNA as the genetic
	material?		8
	\circ a) Griffith's transformation	0	c) The Human Genome Project
	experiment	0	d) Avery-MacLeod-McCarty
	• b) Mendel's Laws of Inheritance		experiment
5.	What is the significance of the Hershey-Chase experiment?		•
	\circ a) It confirmed DNA as the genetic	0	c) It demonstrated the double helix
	material		structure of DNA
	• b) It proved proteins are the carriers	0	d) It showed how mutations occur
	of genetic information		in DNA
6.	What is the primary structure of a protein?		
	• a) The sequence of amino acids	0	c) The beta-sheet configuration
	• b) The three-dimensional shape of	0	d) The interaction between
	the protein		different protein subunits
7.	Which enzyme is responsible for DNA replication?		
	 a) RNA polymerase 	0	c) Ligase
	 b) DNA polymerase 	0	d) Helicase
8.	What is the difference between DNA and RNA?		
	• a) DNA is single-stranded, RNA is	0	c) DNA contains ribose sugar,
	double-stranded		RNA contains deoxyribose sugar
	 b) RNA contains uracil instead of 	0	d) DNA is found in the cytoplasm,
	thymine		RNA is found in the nucleus
9.	Which of the following best describes the structure of DNA?		
	• a) Single-stranded linear molecule	0	c) Circular strand found only in
	 b) Double-stranded helix 		prokaryotes
		0	d) Triple helix structure
10.	What is the role of tRNA in protein synthesis?		
	\circ a) It carries amino acids to the	0	c) It provides the genetic code for
	ribosome		protein synthesis
	 b) It transcribes DNA into RNA 	0	d) It catalyzes the peptide bond
			formation
11.	During transcription, which of the following is synthesized?		
	\circ a) DNA	0	c) Proteins
	o b) RNA	0	d) Lipids
12.	What is the function of RNA polymerase?		
	 a) Synthesizes DNA 	0	c) Synthesizes proteins
	• b) Synthesizes RNA from a DNA	0	d) Splices introns from mRNA
	template		

13. What is	s the role of a promoter in gene expression?		
0	a) It terminates transcription	0	c) It binds amino acids
0	b) It initiates transcription	0	d) It translates mRNA into protein
14. Which process involves the removal of introns from pre-mRNA?			
0	a) Translation	0	c) Replication
0	b) Splicing	0	d) Transcription
15. What is the function of a ribosome during translation?			
0	a) To transcribe DNA into mRNA	0	c) To synthesize proteins by linking
0	b) To replicate DNA		amino acids
		0	d) To process and modify mRNA
16. What is the main purpose of Polymerase Chain Reaction (PCR)?			
0	a) To separate DNA fragments by	0	c) To sequence DNA molecules
	size	0	d) To edit DNA sequences
0	b) To amplify specific DNA		
	sequences		
17 . Which c	component is NOT necessary for a PCR reaction?		
0	a) DNA template	0	c) Primers
0	b) RNA polymerase	0	d) DNA polymerase
18. During gel electrophoresis, DNA fragments are separated based on what property?			
0	a) Sequence	0	c) Length
0	b) Charge	0	d) Temperature
19. Which enzyme is crucial for DNA cloning?			
0	a) DNA ligase	0	c) Reverse transcriptase
0	b) RNA polymerase	0	d) Topoisomerase
20. Sanger sequencing primarily relies on the incorporation of what kind of nucleotide?			
0	a) Deoxynucleotides	0	c) Ribonucleotides
0	b) Dideoxynucleotides	0	d) Pyrophosphates
21. Which of	the following is a primary application of molecular bio	ology	in medicine?
0	a) Increasing agricultural yield	0	c) Developing new types of plastic
0	b) Gene therapy for treating genetic	0	d) Creating renewable energy
alsorders sources			
22. which te	confique is most commonly used in biotechnology for a	трп	a) DCD (Delymerose Chain
0	a) Ger electrophoresis	0	C) FCK (Folymerase Cham Beastion)
0	b) western blotting	~	
0 u) ELISA 23 Which of the following is an example of genetic angineering?			
23. Which of	a) Using CPISPP to modify the	~	c) Performing an Y ray
0	DNA of crops	0	d) Administering antibiotics
0	b) Measuring blood glucose levels	0	d) Administering antibioties
24 What is a significant ethical consideration in the future of molecular biology?			
2 •• nat is a	a) The development of more		c) The use of molecular biology in
0	efficient fertilizers	0	animal breeding
\sim	b) The potential for creating	\circ	d) The automation of laboratory
0	designer babies through genetic	0	techniques
	editing		teeninques

25. Which of the following future trends is expected to have a major impact on molecular biology?

- a) The decline of biotechnology industries
- b) The rise of personalized medicine through genomics
 c) The obsolescence of PCR techniques
- o d) The elimination of ethical considerations in research









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