

CLASS: XIth SUBJECT: BIOLOGY DATE: DPP No.: 3

Topic:-molecular basis of inheritance

1.	In prokaryotes, the process of replication is catalysed by the following enzymes. Identify which of the enzymes is best coordinate with the role (A) Helicase– Joins the ends of DNA segments (B) DNA polymerase I – Synthesis DNA (C) DNA polymerase II – Erases primer and fills gaps (D) Primase – Synthesis RNA primers							
2.	The eukaryotic differs from the prokaryotic genome because (A) Repetitive sequences are present in eukaryotes. (B) Genes in the former case are organized into operons (C) The DNA is complexed with with histones in prokaryotes (D) The DNA is circular and single stranded in prokaryotes							
3.	The double helix mode (A) C-DNA	l of Waston and Crick is kn (B) B-DNA	own as (C) Z-DNA	(D) D-DNA				
4.	Find out the wrong statement (A) Mobile genetic elements, transposons were visualized by Barbara McClintock (B) Udder cell, a somatic cell is used to produce the cloned sheep nuclear transplantation method (C) In pedigree analysis, a person immediately affected by an action is called propositus (D) Dr. Ian Wilmut produced a cloned sheep called Dolly (E) DNA ligase are used to cleave a DNA molecule							
5.	Who among the following did not provide experimental proof for the semiconservative model of DNA replication							
	(A) Meselson & Stahl	(B) Cairns	(C) Waston & Crick	(D) Taylor				
6.	mRNA carries the genetic information from DNA to the or Which of the following is the site of translation of the mRNA (A) Chloroplasts (B) Ribosomes (C) Mitochondria (D) Lysosomes							
7.	During DNA replication in prokaryotes DNA is anchored (A) Chromosome (B) Mesosome (C) Nucleolus (D) Ribosome							
8.	DNA is acidic due to (A) Sugar	(B) Phosphoric acid	(C) Purine	(D) Pyrimidine				
9.	RNA is not found in (A) Chromosome	(B) Plasmmaalemma	(C) Nucleous	(D) Ribosome				

10.	The length of DNA molecule greatly exceeds the dimensions of the nucleus in eukaryotic cells. How is this						
	DNA accommodated (A) Deletion of non-essen (B) Super-coiling in nucle (C) DNAase digestion (D) Through elimination of	eosomes					
11.	The two polynucleotide cl (A) Parallel	hains in DNA are (B) Discontinuous	(C) A	antiparallel	(D) Semiconservative		
12.	In DNA of certain organisadenine (A) 0% (C) 20% (E) 40%	(B) 10% (D) 30%	% of t	he bases. W	hat percentage of the bases would be		
13.	Base composition in RNA (A) $A + T = G + C$ (C) $A + U = G + C$	(B) A + G = T + (D) A + G = U +					
14.	Left handed DNA among (A) DNA (C) C DNA	following is (B) A DNA (D) B DNA					
15.	Which of the following be (A) A-DNA (C) C-DNA	e named for DNA produced (B) B –DNA (D) Z–DNA	l from	RNA			
16.		dditional processing. Out of added to the 5'-end of hall (B) Tailing (D) Termination			f them an unusual nucleotide (methyl vn as		
17.	If a segment of an mRNA molecule has the sequence 5' GUACCGAUCG 3', which of the following could havbe been the template DNA molecule (A)5' GCUAGCCUAG 3' (B)5' GUACCGAUGC 3' (C)5' CATGGCTAGC 3' (D)5' CGATCGGTAC 3'						
18.	Clover leaf model of tRN (A) Went (C) Holley	A was suggested by (B) Flemming (D) Messelson					
19.	Width of DNA molecule (A) 15 Å (C) 25 Å	(B) 20 Å (D) 34 Å					
20.	Z-DNA and B-DNA diffe (A) Constitution of bases (C) Number of helix	er in					