Question I	Bank f	for C	T2
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1) St	re house of genetic material in the nucleus
a) C	romosome b) Nucleoplasm c) Nucleolus d) Nucleoid
2) T	e transfer of electrons from one atom to the other is called bond.
a) co	ralent b) Ionic c) Hydrogen d) peptide
3) B	e wax is the example of
a) Pi	teins b) Carbohydrates c) Lipids d) Nucleic acids
4) W	ich enzyme plays a major role in transcription?
A) I	NA Polymerase b) RNA Polymerase c) DNA Ligase d) Endonuclease
5) T	e negatively charged ions are called
a) A	nions b) Cations c) Atom d) Molecules
6) G	obal warming can be controlled by
a) Re	lucing reforestation b) Reducing deforestation c) Increasing deforestation d) Increasing
fo	sil fuel usage
7) D	A replication enzyme is
a) Re	triction enzyme b) DNA polymerase c) RNA Polymerase d) Ligase
8) T	e two DNA strands are connected by bond.
a) Io	ic b) Covalent c) Hydrogen d) Peptide
9) T	e codon which initiate protein synthesis
a) A	(G b)AAA c)UAA d) UAG
10)	The Lock and Key model is proposed by
	a) Mendel b) Emil Fischer c) Schwann d) Robert Hooke
11)_	is called as table sugar.
	a) Glucose b) Lactose c) Fructose d) Sucrose
12) Ir	RNA, Purine based adenine pair with
a) Th	mine b) Guanine
c) Cy	osine d) Uracil
13) T	e discontinuous DNA fragments present in lagging strand are called
a) Ok	zaki b) Lagging c) RNA d) Molecular
14) T	e groove on the surface of enzyme is called as

a) Active site b) Exon site c) Gene site d) Inactive site
15) is the termination codon.
a) AUG b) CUG c) UGC d) UAA
16) The use of DNA as a pharmaceutical agent to treat disease is called
a) SCNT b) Cloning c) Gene therapy d) Stem cell
17) The Positively charged ions are called as
a) Anions b) Cations c) Atoms d) Molecules
18) The DNA structure was discovered by
a) Watson and crick b) Watson and Smith c) Thompson and Smith d) Singer and Nicolson
19) In DNA, Thymine pair with
a) Cytosine b) Guanine c) Adenine d) Thymine
20) The process of synthesis of mRNA from DNA is called
a) Replication b) Transcription c) Translation d) Protein synthesis
21) The initiation codon is
a) AUG b) AGC c) AGG d) CGA
22) bind at the active site of the enzyme.
a) Enzyme b) Trypsin c) Insulin d) Substrate
23) protein is present abundantly in hair and nail
a) Haemoglobin b) Myoglobin c) Keratin d) Myosin
24) are the segments of genes code for amino acids.
a) Introns b) Exons c) Triplet code d) Genetic code
25) refers to numbers, variety and variability of living organism and ecosystem
a) Food chain b) Food Web c) Biodiversity d) Tropic level
26) The optimum temperature for enzyme action is
a) 35-40 °C b) 40-45°C c) 45-50°C d) 50-55°C
27) Amino acid are connected by bond.
a) Peptide b) Ionic c) Covalent d) Hydrogen
28) Induced Fit model of enzyme action is proposed by
a) Emil Fischer b) Schwann c) Koshland d) Mendel
29) molecule is explained with induced fit model.
a) Lipid b) DNA c) RNA d) Enzyme

30) Most of the enzymes were locates in	
a) Cytosol b) Mitochondria c) Nucleus d) ER	
31)is the optimum pH for Enzymes.	
a) 2-3 b) 8-10 c) 6-8 d) 4-6	
32) The nitrogenous bases and sugar constitutes	
a) Pyramidine b) Purine c) Nucleotide d) Nucleoside	
33) Blastulocytes are the example of potency.	
a) Totipotent b) Pluripotent c) Multipotent d) Unipotent	
34) The pyrimidine, Cytosine in DNA base pair with	
a) Cytosine b) Guanine c) Adenine d) Thymine	
35) Genes does not code for amino acid.	
a) Intron b) Axon c) Neuron d) Exon	
36) The chemical bond is characterized by equal sharing of electrons between atoms	is
bond.	
a) Covalent b) Ionic c) Co-ordinate d) Hydrogen	
37) is threat to biodiversity	
a) Over exploitation b) Disaster c) Flood d) Drought	
38) protein is abundantly present on the earth.	
a) Haemoglobin b) Myoglobin c) keratin d) Rubisco	
39) Steroids are the example of macromolecule.	
a) Proteins b) Carbohydrates C) Lipids d) Nucleic acids	
40) Sucrose is the example of	
a) Disaccharide b) Monosaccharide c) Oligosaccharide d) Polysaccharide	
PART – B	
 Short notes on nucleic acids and their components. Difference between DNA and RNA. 	
3) Write about RNA and its types.	
4) Explain ionic bond with an example.5) Short notes on importance on biodiversity.	
6) What are the factors which affect biodiversity?	
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7) Define biodiversity and its types.

- 8) Write some functions of proteins?
- 9) Importance of Proteins
- 10) Explain about Gene therapy and its types?
- 11) Write short notes on genetic code and codons.
- 12) Write about central dogma?
- 13) What are the types of RNA? Explain.
- 14) Explain covalent bond with example.
- 15) Difference between competitive and non-competitive inhibition.
- 16) Define totipotent, pluripotent and Unipotent.
- 17) Short notes on RNA and its types and Functions.
 - 18) Write about the applications of protease enzyme.

PART - C

- 1. Briefly explain about Transcription process with neat labeled diagram.
- 2. Write about various factors which affect the enzyme activity.
- 3. Write about DNA structure and components with neat labeled diagram.
- 4. Write an essay about Biological Macromolecules.
- 5. Write short notes on enzyme mechanism and its theory?
- 6. Elaborate about protein synthesis with suitable diagram
- 7. What is r-DNA technology? Explain the steps and applications of it.
- 8. Write short notes on different protein structures with example.