SUDITI GLOBAL ACADEMY, MAINPURI (U.P)

SAMPLE PAPER SESSION-2021-2022

Class-11th Time - 90min. **Subject-Biology** <u>MM-35</u>

General	inctr	netio	nc.
Other ar	HISTI	utuu	115.

- 1. The question paper contains three sections.
- **2.**Section A has 24 questions, attempt any 20 questions.
- **3.**Section B has 24 questions, attempt any 20 questions.
- **4.**Section C has 12 questions, attempt any 10 questions

8. Species found in different geographical locations are called

5.Each question Carry 0.7 Mark.								
SECTION-A								
[Section – A consists of 24 questions. Attempt any 20 questions from this section. The firs attempted 20 questions would be evaluated.] 1. A group of plants and animals with similar traits of any rank is								
(A) Taxon (B) Species (C) Genus (D) Order 2. Which is less general in characters as compared to genus								
(A) Family(B) Division (C) Class (D) Species 3. What is the correct sequence?								
(A) Genus-species-order-kingdom (B) Species-order-phylum-kingdom								
(C) Species-genus-order-phylum (D) Kingdom-phylum-class-order 4. Metabolism refers to								
(A) Release of energy (B) Gain of energy								
(C) Catabolism (D) Gain or release of energy								
5. What is nomenclature?								
(A) Genus's name written after species								
(B) Genus and species names are written in italics								
(C) Genus and species have the same name								
(D) The first letter of genus and species name is capital								
6. The term phylum was coined by								
(A) Linnaeus (B) Cuvier (C) Haeckel (D) Theophrastus								
7. Binomial nomenclature was given by								
(A) Linnaeus (B) Hugo De Vries (C) John Ray (D) Huxley								

(A) Sympatric	species	(B) Allopatric s	pecies		
(C) Sibling spe	ecies	(D) Morpho spe	ecies		
9. What is a h	omonym?				
(A) Identical na	ame of two differ	rent taxa			
(B) Two or mo	ore names of same	e taxon			
(C) Name give	n to taxon in loca	al language			
(D) Species na	me repeats the ge	eneric name			
10. The biolog	ically cohesive u	ınit of taxa is			
(A) Phylum	(B) Order	(C) Genus	(D) Spe	ecies	
	-	•	-	ate to be able to perform work.	
(B) If both Ass (C) If Assertion		on are true but Reson is false.		the correct explanation of Assertion. not the correct explanation of Asserti	
				glycine, serine and tyrosine. n the human body.	
(B) If both Ass (C) If Assertion		on are true but Reson is false.		the correct explanation of Assertion. not the correct explanation of Asserti	
13. Energy flo	w and energy tr	ansformation in	ı a livinş	g system follow	
(A) Biogenetic	law	(B) Law of ther	modyna	nmics	
(C) Law of lim	iting factor	(D) Liebig's lav	v of min	nimum	
14. Energy tra	ansformation is	never 100% effi	cient be	ecause of	
(A) Catabolism	n (B) Entropy	(C) Homeostasi	s	(D) Anabolism	
15. The defini	ng characteristi	c of living being	s is		
(A) They repro	oduce		(B) The	ey can digest their food	
(C) They respo	ond to external sti	muli	(D) The	ey regenerate	
16. Which of t	the following org	ganisms can be f	ound in	extreme saline conditions?	

(A) Eubacteria (B) Archaebacteria
(C) Cyanobacteria (D) Mycobacteria
17. Linnaeus used which kingdom of classification?
(A) Artificial system (B) Natural system
(C) Phylogenetic system (D) Asexual system
18. Smallest taxon of classification is
(A) Kingdom (B) Family (C) Variety (D) Species
19. In which of the following kingdom are Archaea and Nitrogen-fixing organisms classified?
(A) Animalia (B) Plantae (C) Monera (D) Fungi
20. Bentham and Hooker gave which system of classification?
(A) Numerical (B) Phylogenetic (C) Artificial (D) Natural
21. What is the main basis of classification in the five-kingdom system?
(A) Structure of the nucleus (B) Structure of cell wall
(C) Asexual Reproduction (D) Mode of Nutrition
22. Which of the following statements is false about the fungi?
(A) They are eukaryotes (B) They are heterotrophs
(C) They possess a purely cellulosic cell wall (D) None of the above
23. Linnaeus evolved a system of nomenclature called
(A) Vernacular (B) Monomial (C) Polynomial (D) Binomial
24. What is taxon?
(A) A group of related families (B) A type of living organisms
(C) A group of related species (D) A group of any ranking
SECTION-B
[Section - B consists of 24 questions (Sl. No.25 to 48). Attempt any 20 questions from th section. The first attempted 20 questions would be evaluated.]
25. The protists have which of the following?
(A) Free nucleic acid aggregates
(B) Nucleoprotein in direct contact with the rest of the cell substance

(C) Membrane-bound nucleoproteins within the cytoplasm
(D) Nucleoproteins condensed together in a loose mass
26. Genes of Tobacco Mosaic Virus are
(A) Double-stranded RNA (B) Single-stranded RNA (C) Double-stranded DNA (D) Proteinaceous
27. Blue-green algae belong to which group?
(A) Protista (B) Prokaryotes (C) Fungi (D) Bryophytes
28. T.O. Diener discovered
(A) Bacteriophages (B) Infectious proteins (C) Free infectious DNA (D) Free infectious RNA
29.The cytoplasmic connections from cell to cell are known as (A) middle lamella (B) plasmodesmata
(C) cell membrane system (D) endoplasmic reticulum
30.Bacterial flagella is made up of (A) tubulin (B) flagellin (C) chitin (D) None of these
31.Plasmolysis occurs due to- (A) Absorption (B) Endosmosis (C) Osmosis (D) Exosmosis
32.The term Cell was given by- (A) Leeuwenhoek (B) Robert Hooke (C) Fleming (D) Robert Brown 33.Plasma membrane is (A) impermeable (B) Semi-permeable
(C) completely permeable (D) Differentially permeable
34.Middle lamella is made up of (A) calcium sulphide (B) calcium pectate (C) calcium carbonate (D) calcium chloride
35.Match the columns. 1. Cytoskeleton – A. hair-like outgrowth 2. Flagella – B. proximal region of centriole 3. Hub – C. bristle-like structures 4. Fimbriae – D. filamentous protein structure (A) 1-D, 2-A, 3-B, 4-C (B) 1-D, 2-C, 3-B, 4-A (C) 1-B, 2-D, 3-A, 4-C (D) 1-D, 2-A, 3-C, 4-B
36.Which of the following does not have cell wall? (A) Mycoplasma (B) Bacteria (C) PPLO (D) Blue green algae
37.Centrosome is found in- (A) Cytoplasm (B) Nucleus (C) Chromosomes (D) Nucleolus
38.The longest cell in human body is (A) red blood cells (B) white blood cells (C) columnar epithelial cells (D) nerve cells

39. The main site for synthesis of lipids is
(A) vacuoles (B) RER (C) SER (D) Golgi body
40.The function of ribosomes is
(A) metabolism (B) lipid synthesis (C) protein synthesis (D) photosynthesis
41. Which is called Suicidal Bag?
(A) Centrosome (B) Lysosome (C)Mesosome (D) Chromosome
42.A nucleosome is a portion of the chromonema containing
(A) both DNA and histones (B) only histones
(C) both DNA and RNA (D) only DNA
43.The largest cell in the human body is-
(A) Nerve cell (B) Muscle cell (C) Liver cell (D) Kidney cell
44. Keeping in view the fluid mosaic model for the structure of cell membrane, which one of the
following statements is correct with respect to the movement of lipids and proteins from one
lipid monolayer to the other (described as flip-flop movement)?
(A) Neither lipids, nor proteins can flip-flop(B) Both lipids and proteins can flip-flop
(C) While lipids can rarely flip-flop, proteins cannot
(D) While proteins can flip-flop, lipids can not
45.Cell secretion is done by- (A) Plastids (B) ER (C) Golgi apparatus (D) Nucleolus
(A) Hastids (B) ER (C) Goigi apparatus (D) Nucleotus
46. Which one of the following is wrongly matched?
(A) Enzyme – Lipopolysaccharide (B) Phospholipid – Plasma membrane
(C) ATP – Nucleotide derivative (D) Antibody – Glycoprotein
47. A functional protein is
(A) Collagen (B) Ossein (C) Vitamin (D) Enzyme
(e) essenges (e) essent (e) summer (e) essent
SECTION-C
[Section- C consists of one case followed by 6 questions linked to this case (Q.No.49 to 54).
Besides this, 6 more questions are given. Attempt any 10 questions in this section. The first
attempted 10 questions would be evaluated.]
48.Nitrogenous bases present in DNA
(A) Adenine, guanine, cytosine, uracil (B) Adenine, guanine, cytosine, thymine
(C) Adenine, thymine, uracil (D) Guanine, uracil
49.Metabolic intermediates found in living system which are essential for growth and life is
called
(A) Saponin-A (B) Tannins (C) Secondary metabolite (D) Primary metabolites

	ne but no ura ne but no cyt		(B) Uracil but no thymine (D) Cytosine but no guanine							
51. Enormous diversity of protein molecules is due to (A) R groups of amino acids (B) Sequence of amino acids (C) Peptide bonds (D) Amino groups of amino acids										
 52. Anti-parallel strands of a DNA molecule mean that (A) One strand turns anticlockwise (B) Phosphate groups at the start of two DNA strands (poles) are in opposite position (C) Phosphate groups of two DNA strands at their ends share the same position (D) One strand turns clockwise 										
(A) Alterin (B) Exposit (C) Allowin	g the pH of the plants and the plant	of t-DNA int the soil, then to the cold to roots to stand to the Agroba	heat shocking for a brief per lin water	ng the plants riod						
(A) Adenin	hydrogen late and guanine and thymin		(B) Thy	ween whine and cy acil and thyn						
55. The mo (A) Sucrose		monomer of the control of the contro	f carbohyd Maltose	rates is (D) Glucose	e.					
	of the follo	wing repres (B) Pigmen	ents an add ts making co		tion which s wers		as enzymes. ns discharge?			
	en is a comp ydrates	oonent of (B) Lipids	(C) Pro	teins (D)	Polyphosph	aates				
58. The most abundant mineral of the animal body is (A) Potassium (B) Sodium (C) Calcium (D) Iron										
59. The bacterial cell wall is formed of (A) Cellulose (B) Hemicellulose (C) Peptidoglycan (D) Glycogen										
60. Ester linkages occur in (A) Proteins (B) Lipids (C) Nucleic acids (D) Carbohydrates										
	Answers Key									
<u>1-A</u>	<u>9-A</u>	<u>17-A</u>	<u>25-C</u>	<u>33-A</u>	<u>41-B</u>	<u>49-D</u>	<u>57-C</u>			

50.DNA differs from RNA in having

<u>1-A</u>	<u>9-A</u>	<u>17-A</u>	<u>25-C</u>	<u>33-A</u>	<u>41-B</u>	<u>49-D</u>	<u>57-C</u>
<u>2-D</u>	<u>10-D</u>	<u>18-D</u>	<u>26-B</u>	<u>34-B</u>	42-A	<u>50-A</u>	<u>58-C</u>

<u>3-D</u>	<u>11-C</u>	<u>19-C</u>	<u>27-B</u>	<u>35-A</u>	<u>43-A</u>	<u>51-B</u>	<u>59-C</u>
<u>4-D</u>	<u>12-A</u>	<u>20-B</u>	<u>28-D</u>	<u>36-A</u>	44-C	<u>52-B</u>	<u>60-C</u>
<u>5-B</u>	<u>13-B</u>	<u>21-B</u>	<u>29-B</u>	<u>37-A</u>	<u>45-C</u>	<u>53-D</u>	
<u>6-C</u>	<u>14-B</u>	<u>22-A</u>	<u>30-B</u>	<u>38-D</u>	<u>46-A</u>	<u>54-C</u>	
<u>7-A</u>	<u>15-C</u>	<u>23-D</u>	<u>31-D</u>	<u>39-C</u>	<u>47-D</u>	<u>55-D</u>	
<u>8-B</u>	<u>16-B</u>	<u>24-D</u>	<u>32-B</u>	<u>40-C</u>	<u>48-B</u>	<u>56-C</u>	

Syllabus for Unit Test-1

<u>Chapter-1</u> <u>The living World</u>

Chapter-2 Biological Classification

<u>Chapter-8</u> <u>Cell- The Unit of Life</u>

Chapter-9 Biomolecules

Chapter-10 Cell Cycle and Cell Division

Chapter-17 Breathing and Exchange of Gases