

KENDRIYA VIDYALAYA SITAPUR SHIFT 1		
<b>Unit test -1 Session :2025-26</b>  <b>CLASS-XI</b> <b>SUBJECT- BIOLOGY</b>  <b>MAX MARK-40</b> <span style="float: right;"><b>TIME - 90 MINUTES</b></span> General Instructions: 1 Attempt all questions. Some Internal choices are given. 2. Question paper is divided into five sections. 3. Section A consists of MCQs carrying 1 mark each. 4. Section B contains Short answer type questions carrying 2 marks each. 6. Section C contains Short answer type questions carrying 3 marks each. 7. Section D contains Question carrying 5 marks		
SECTION A		
1	The term 'systematics' refers to: a. Identification and classification of plants and animals b. Nomenclature and identification of plants and animals c. Diversity of kinds of organisms and their relationship d. Different kinds of organisms and their classification	1
2	Contagium vivum fluidum was proposed by a. D.J. Ivanowsky b. M.W. Beijerinck c. Stanley d. Robert Hook	1
3	Holdfast, stipe and frond constitute the plant body in case of a. Rhodophyceae b. Chlorophyceae c. Phaeophyceae d. All of the above Holdfast, stipe and frond constitutes the plant body in case of a. Rhodophyceae b. Chlorophyceae c. Phaeophyceae d. All of the above	1
4	Birds and mammals share one of the following characteristics as a common feature. a. Pigmented skin b. Pneumatic bones c. Viviparity d. Warm blooded	1

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	SECTION A	
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5	<p>The placenta is attached to the developing seed near the</p> <ol style="list-style-type: none"> <li>a. Testa</li> <li>b. Hilum</li> <li>c. Micropyle</li> <li>d. Chalaza</li> </ol>	1
6	<p>A conjoint and open vascular bundle will be observed in the transverse section of</p> <ol style="list-style-type: none"> <li>a. Monocot root</li> <li>b. Monocot stem</li> <li>c. Dicot root</li> <li>d. Dicot stem</li> </ol>	1
	<p>Directions: In the following questions, a statement of assertion is followed by a statement of reason.</p> <p>Mark the correct choice as:</p> <ol style="list-style-type: none"> <li>(a) If both Assertion and Reason are true and Reason is the correct explanation of Assertion.</li> <li>(b) If both Assertion and Reason are true but Reason is not the correct explanation of Assertion.</li> <li>(c) If Assertion is true but Reason is false.</li> </ol>	

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	(d) If both Assertion and Reason are false	
7	<b>Assertion (A):</b> Archaea Bacteria and Eubacteria are grouped under the domain Prokaryote. <b>Reason (R):</b> Both Archaea Bacteria and Eubacteria belongs to kingdom protista.	1
8	<b>Assertion (A):</b> Coelenterates are classified as diploblastic animals. <b>Reason (R):</b> The developing embryo of coelenterates has a third germinal layer, the mesoderm, located between the ectoderm and endoderm.	1
9	<b>Assertion (A):</b> The pollen grain in gymnosperms represents a highly reduced male gametophyte. <b>Reason (R):</b> Gymnosperms are heterosporous, producing both microspores and megaspores	1
10	<b>Assertion (A):</b> In a hypogynous flower, the ovary is described as superior. <b>Reason (R):</b> In hypogynous flowers, the gynoecium is located at the highest position on the thalamus, while the other floral parts are situated below it.	1
	SECTION B	
11	Define a taxon. Give a flow diagram from the lowest to highest category for a plant and an animal.	2

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12	Give a comparative account of the classes of Kingdom Fungi under the following: (i) mode of nutrition (ii) mode of reproduction	2
13	How can you differentiate between free central and axile placentation?	2
14	Biologists follow universally accepted principles to provide scientific names to known organisms. Each name has two components – the Generic name and the specific epithet. This system of providing a name with two components is called Binomial nomenclature. This naming system given by Carolus Linnaeus is being practised by biologists all over the world. This naming system using a two word format was found convenient. a) What are the rules of writing names in nomenclature? b) Write the scientific name of Humans, Mango?	2
SECTION C		
15	Excretory organs of different animals are given below. Choose correctly and write in the space provided. Animal Excretory Organ/Unit a. Balanoglossus b. Leech c. Locust i. Metanephridia ii. Nephridia iii. Flame cells	3

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	d. Liver fluke e. Sea urchin f. Pila iv. absent v. malpighian tubule vi. Proboscis gland	
16	Write a note on the economic importance of algae and gymnosperms.	3
17	How is the five-kingdom classification advantageous over the twokingdom classification? OR Give difference between anatomical structure of vascular bundle in Dicot stem and Monocot stem.	3
18	In addition to proteins, viruses also contain genetic material, that could be either RNA or DNA. No virus contains both RNA and DNA. A virus is a nucleoprotein and the genetic material is infectious. In general, viruses that infect plants have single stranded RNA and viruses that infect animals have either single or double stranded RNA or double stranded DNA. Bacterial viruses or bacteriophages (viruses that infect the bacteria) are usually double stranded DNA viruses . The protein coat called capsid made of small subunits called capsomeres, protects the nucleic acid a) What are bacteriophages? b) What types of virus are found on basis of genetic material? c) What are capsomeres ?Its function?	3
	SECTION D	

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19	Explain Family Solanaceae with all characteristics,floral formula,floral diagram.	5
20	<p>Distinguish between the following:</p> <p>a. Valvate astivation and vexillary            b. Stele and vascular bundle            c. Protoxylem and metaxylem            e. Open and closed vascular bundles            f. Stem hair and root hair</p>	5