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1ST JAN 2026 TO TILL MARCH 2026 FINAL EXAM.

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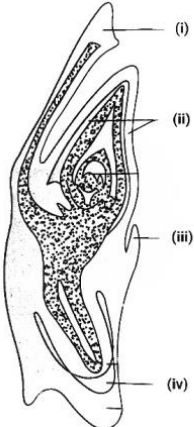
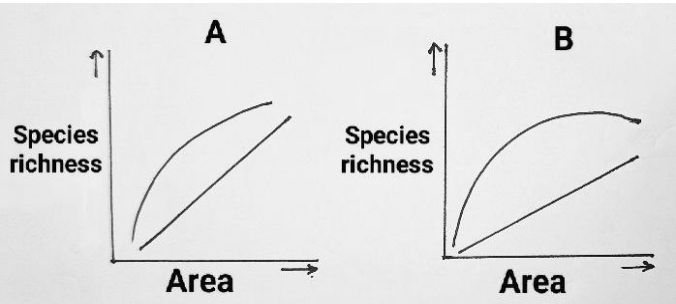
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Section-A

Q.No. 1 to 12 are multiple choice questions. Only one of the choices is correct. Select and write the correct choice as well as the answer to these questions.

| Q.No. | Question | Marks |
|-------|---|-------|
| 1 | Appearance of dry, scaly lesions on various parts of the body, such as skin, nails as scalp are the main symptoms of this disease. It is caused by- a. <i>Microsporum</i> b. <i>Trichophyton</i> c. <i>Epidermophyton</i> d. All of the above | 1 |
| 2 | In experiment to isolate DNA, liquid soap is used as enzyme to remove the other components in the material. Why is Chilled Ethanol used in the last step of experiment? a. Clear the DNA b. Precipitates out of the DNA c. To saturate the solution d. The impurities are to be separated | 1 |
| 3 | The 'intra uterine devices'(IUDs) are inserted by doctors or expert nurses. Select the hormone releasing IUD from given- a. Multiload 375 b. Multiload 200 c. CuT d. LNG-20 | 1 |
| 4 | In pea plants, yellow seeds are dominant to green. If a heterozygous yellow seeded plant is crossed with green seed plant, what ratio of yellow and green seed plant would you expect in F1 generation? a. 50:50 b. 9:1 c. 1:3 d. 3:1 | 1 |

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| 5 | <p>The chemical defense mechanism prevents plants from its predators, the chemical produced by the plants is highly toxic and causes serious consequences to predator animals. So, more of the animals did not use these plants in the form of food. Select the name of chemical which is not used by plants to protect own self from browsing –</p> <ol style="list-style-type: none"> Glycosides Strychnine Quinine Calotropis | 1 |
| 6 | <p>When the blastocyst becomes embedded in the endometrium of the uterus, the process is called:</p> <ol style="list-style-type: none"> Trophoblast Implantation Fertilization Blastomeres | 1 |
| 7 | <p>Chargaff's rule indicates that the ratio of purines to pyrimidines in dsDNA is</p> <ol style="list-style-type: none"> Always equal to one Greater than one Less than one Variable depending on the organism | 1 |
| 8 | <p>On what basic principle the 'Enzyme-Linked Immunosorbent Assay' works?</p> <ol style="list-style-type: none"> Mechanism of enzyme action Role of chemicals in body Antigen-antibody interaction Neutralising the chemicals | 1 |
| 9 | <p>Identify the Scutellum in given diagram:</p> <ol style="list-style-type: none"> (i) (ii) (iii) (iv)  | 1 |
| 10 | <p>The two samples of the water are taken from different sources, labeled as A and B. During the process of supply of oxygen, sample A requires a smaller amount of Oxygen, and sample B requires a high amount of oxygen to oxidize organic materials present in them. So, which option is correct related to it -</p> <ol style="list-style-type: none"> Sample A is more polluted Sample B is more polluted Sample A and B are equally polluted Sample B is less polluted | 1 |
| 11 | <p>Compare the given two graphs of different places are given (A and B). On the basis of graph given select the region have more species diversity.</p> <ol style="list-style-type: none"> A B A and B both No any answer is correct  | 1 |

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| 12 | The example of human ancestor probably did not eat meat- a. <i>Dryopithecus</i> b. <i>Homo habilis</i> c. <i>Australopithecines</i> d. <i>Homo erectus</i> | 1 |
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Question No. 13 to 16 consists of two statements-Assertion (A) and Reason (R). Answer these questions by selecting the appropriate option given below:

- A. Both A and R are true, and R is the Correct Explanation of A.
B. Both A and R are true, and R is not the Correct Explanation of A.
C. A is true but R is false.
D. A is False but R is True.

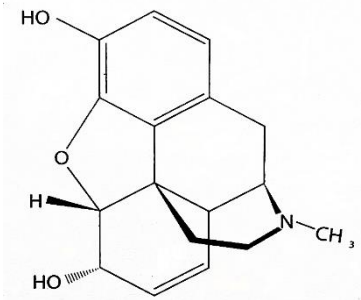
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| 13 | Assertion (A): Gross primary productivity is always less than net primary productivity. Reason (R): Rate of synthesis of organic matter by consumers is known as secondary productivity. | 1 |
| 14 | Assertion (A): Test cross is used to determine whether the individual is homozygous or heterozygous. Reason (R): In the test cross, individual is crossed with the recessive parent. | 1 |
| 15 | Assertion (A): Virus infected cells secrete proteins. Reason (R): These proteins are called interferons, it protect non-infected cells from further viral infections. | 1 |
| 16 | Assertion (A): Number of species in a community really matters to the functioning of ecosystem. Reason (R): Communities with more number of species generally tend to be more stable. | 1 |

Section-B

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| 17 | <u>Attempt either option A or B</u> A. Write the answers of the following- i. How amniocentesis is beneficial to human beings? ii. What is MTP? Or B. How are true fruits different from false fruits? Mention one example in each. | 2 |
| 18 | <u>Attempt either option A or B</u> A. Draw well labelled structure of an antibody molecule. Or B. Draw well labelled diagram of a typical biogas plant. | 2 |
| 19 | In sex determination the female heterogamety also observed. Mention one example and method of sex determination of female heterogamety. | 2 |
| 20 | In PCR, in starting the temperature is high. At this temperature most of the enzymes are not used, because at this temperature they become inactive. So, one organism produce this enzyme, which is further used in the process. Name the organism which produce this enzyme and name the enzyme also. | 2 |

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| 21 | <p style="text-align: center;"><u>Attempt either option A or B</u></p> <p>A. When the DNA and RNA are compared, the DNA is considered better genetic material. What two important features make DNA stable or better genetic material than RNA?</p> <p style="text-align: center;">Or</p> <p>B. During the flow of genetic information to form protein, it follows Central Dogma. Write the names of all steps of central dogma with flow chart.</p> | 2 |
| Section-C | | |
| 22 | Flowering plants have developed many devices to encourage cross-pollination. Mention any three devices which discourage self-pollination in plants. | 3 |
| 23 | During the process of replication, DNA follows the semiconservative pattern. Describe the process of replication with a diagram of replication fork along with the role of ori, DNA polymerase, DNA ligase, Deoxiribonucleoside triphosphates. | 3 |
| 24 | In cancer early detection and diagnosis are required. Enumerate three techniques used to detect and diagnosis of cancer. | 3 |
| 25 | <p>Observe the two graphs are given as 'a' and 'b'. The graphs show the increase in population density in increasing of time.</p> <div style="text-align: center;"> </div> <p>How will you distinguish the two graphs on the basis of 'K'?</p> | 3 |
| 26 | <p>a. How does cleistogamy ensure autogamy?</p> <p>b. State one advantage and one disadvantage of cleistogamy to plants.</p> | 3 |
| 27 | The recombinant/alien DNA produced in the laboratory is further required to be introduced into the host cell. What are the ways to introduce alien DNA into host cells? (Mention any three methods) | 3 |
| 28 | 'The Evil Quartet' is considered as indicator for accelerated rates of species extinctions. Describe any three of them. | 3 |
| Section-D | | |
| 29 | <p><u>Case Study- Blood Groups</u></p> <p>Read the given case study and answer the questions given after-</p> <p>ABO blood group system in human beings is determined by two types of antigens present on the surface coating of red blood cells -A and B. Presence, absence and type of antigens are determined by three immunogen alleles I^A, I^B and i. I^A forms antigen A, I^B forms antigen B, while allele i is recessive and does not form any antigen. Both I^A and I^B are dominant over i but not over each other. The blood group of next generation is determined according to the one allele shared by each of the parents.</p> | 4 |

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| | <p>A. How many combinations (genotypes) of blood group are possible in ABO blood group system?</p> <p>B. In gene <i>I</i> and <i>i</i>, which does not produce sugar?</p> <p>Attempt either subpart C or D</p> <p>C. In the ABO blood group system how will you describe co-dominance? Write with example.</p> <p style="text-align: center;">Or</p> <p>D. How the example of ABO blood grouping provides a good example of multiple allelism?</p> | |
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| 30 | <p>Case Study- Drug</p> <p>Read the given case study and answer the questions given after-</p> <p>After a surgery drug 'X' was injected to the patient to counteract the effect of pain receptors in the body and to induce sleep in patients. The structure of the drug 'X' is provided:</p> <div style="text-align: right;">  </div> <p>A. Name the drug 'X'.</p> <p>B. The 'X' drug can be obtained from.</p> <p>Attempt either subpart C or D</p> <p>C. Which compound can be formed by acetylation of Drug 'X' and state the compound formed by acetylation of drug 'X'</p> <p style="text-align: center;">Or</p> <p>D. From which category drug 'X' belongs to and mention the mode of intake of it.</p> | 4 |
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Section-E

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| 31 | <p style="text-align: center;">Attempt either option A or B</p> <p>A. Write the answers of the following-</p> <ol style="list-style-type: none"> During the menstrual cycle various events takes place. It is controlled by pituitary hormones and ovarian hormones. Write the role of following hormones during menstrual cycle. <div style="display: flex; justify-content: space-around; margin-top: 5px;"> a. FSH b. LH c. Estrogen d. Progesterone </div> Why the corpus leuteum degenerates during the menstrual cycle? <p style="text-align: center;">Or</p> <p>B. Write the answers of the following-</p> <ol style="list-style-type: none"> Where is microsporangium located in an angiosperm? State the function of tapetum and the other three layers of microsporangium? Describe the structure of male gametophyte produce as a result of microsporangium. State the function of each part of the male gametophyte. | 5 |
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| 32 | <p style="text-align: center;"><u>Attempt either option A or B</u></p> <p>A. Write the answers of the following-</p> <p>i. The dominant characters are always present in the first generation. Sometimes it shows partially. Describe the phenomenon of incomplete dominance with an example. Prepare a cross to show condition of incomplete dominance with example.</p> <p>ii. "In evolution phenotypic changes are found in a species due to different environmental conditions or geographical conditions". Describe the phenomenon related to the statement.</p> <p style="text-align: center;">Or</p> <p>B. In the process of translation polymerization of amino acids takes place with use of enzymes and the factors. Discuss the process of translation in detail.</p> | 5 |
| 33 | <p style="text-align: center;"><u>Attempt either option A or B</u></p> <p>A. What are restriction enzymes? Which restriction enzyme is considered as the first restriction enzyme? Write the convention for naming these enzymes (rules of naming). How endonucleases are different from exonucleases?</p> <p style="text-align: center;">Or</p> <p>B. A person is born with a heritable disease. Corrective therapy is required for the person, which is called gene therapy. Explain with example of disease cured by gene therapy, write the step of gene therapy to cure the disease. What is the permanent cure for this disease?</p> | 5 |

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