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| **Topic heading** | **Syllabus Ref** | **Idea cluster** | **Question 1** | **Question 2** | **Question 3** | **Question 4** |
| **Inheritance, variation and evolution** | **BEv** | **Genetic Engineering** | **What are the function of enzymes in genetic engineering?**  **A They are used to aid the digestion of the chromosomes**  **B They are inserted into chromosomes in replacement of genes**  **C They are used to cut desired genes from chromosomes**  **D They are used to catalyse the reactions** | **Name an example of a vector and its use in genetic engineering**  **A Enzyme and it is used to cut a chromosome**  **B Bacteria, it is the desirable gene from a chromosome**  **C Plasmid, it is used to insert a gene into a required cell**  **D Plasmid, and it is used to cut a chromosome** | **What makes an organism ‘genetically modified’?**  **A It has had extra chromosomes inserted**  **B It has had extra genes added**  **C It has had a gene replaced by a different gene**  **D It has different alleles to another animal of the same species.** | **Which of the below is a concern related to genetic modification of crops?**  **A They have higher yields**  **B They may cross pollinate with wild plant populations**  **C They are resistant to pests**  **D They produce bigger fruits** |
|  |  |  | **C** | **C** | **C** | **B** |
| **Inheritance, variation and evolution** | **BEv** | **Evidence for evolution** | **Which individuals are most likely to survive to reproduce?**  **A Individuals that are well suited to their environment**  **B Individuals that are poorly suited to their environment**  **C Individuals that have no immunity to new diseases**  **D Individuals that have a restricted and small food supply** | **What is the theory for natural selection?**  **A Organisms that are well suited to their environment will go on to reproduce**  **B Organisms that are not well adapted to their environment will go on to reproduce**  **C Organisms that are well suited to their environment are likely to become extinct**  **D Organisms, over their life time, will adapt and pass on these characteristics in their genes to their young** | **For what reason may an organism become extinct?**  **A An increase in food supply**  **B A new predator**  **C A developed resistance to a disease**  **D An increase in territory** | **In what ways may fossils be formed?**  **A From parts of organisms that have not decayed**  **B When parts of the organisms are replaced by minerals**  **C As preserved traces of organisms eg footprints**  **D All of the above** |
|  |  |  | **A** | **A** | **B** | **D** |
| **Inheritance, variation and evolution** | **BEv** | **Classification of living organisms** | **Which of the following shows the correct genus and species of a Orang Utan?**  **A Mammal, Pongo**  **B pongo pygmaeus**  **C Pongo pygmaeus**  **D Chordate, Pongo.** | **Which of the following groups contain primitive unicellular organisms that live in extreme conditions?**  **A Bacteria**  **B Chordates**  **C Archaea**  **D Eukaryota** | **Which is the correct order for the classification system?**  **A Kingdom, Phylum, Order, Class, Family, Species, Genus**  **B Kingdom, Phylum, Class, Order, Family, Species, Genus**  **C Kingdom, Class, Phylum, Order, Family, Species, Genus**  **D Kingdom, Phylum, Class, Order, Family, Genus, Species** | **Image result for evolutionary tree**  **Which organism is the Taxidea taxus most closely related to?**  **A Canis Lupus**  **B Lutra lutra**  **C Canis latrans**  **D Panthera pardus** |
|  |  |  | **C** | **C** | **D** | **B** |
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