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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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