**Yr. 12 ATAR Human Biology ATHBY**

**Task 9: Extended Response**

**Conditions**

Time for task:

**Part A:** You have one week to research the topic and complete notes. You **may not** use these notes for Part B.

**Part B:** 30 minutes for in class validation – examination-style extended answer question.

**Task weighting: 4 %**

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**Part A: Research Notes (5 marks)**

Developments in biotechnology have increased the access to genetic information of species, population and individuals. The interpretation and use of this information may be open to ethical considerations. In Australia, genetic screening is carried out on newborn babies. **Research the ethical implications that may arise due to this genetic screening.**

Biotechnological developments have resulted in rapid advances in medical technology. **Research how the following techniques may be used to help implement treatments to manage inherited diseases:**

* Recombinant DNA Technology
* DNA Sequencing
* Profiling techniques
* Polymerase chain reaction

Notes must be hand written and in point form. Limited to 1 A4 sheet of paper. (2 sides)

(3 marks)

b. You must include your references in a standard referencing format of your choice; for example Harvard. Hand this in as a separate sheet attached to your note-taking. (2 marks)

**Part B: In-class assessment 20 marks**

Answer each part of the following question on the lined paper provided.

Responses could include clearly labelled tables and graphs; clearly labelled diagrams with explanatory notes; lists of points with linking sentences and annotated flow diagrams with introductory notes.

The question will be provided during class time on the day of validation activity.