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**Tooleybuc Central School**

**Assessment Task**

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| **Student Name:** |  |
| **Subject:** | Science |
| **Year:** | 9 |
| **Assessment Task Name:** | Research Report on Disease |
| **Task Weighting:** | 15% |
| **Outcomes Assessed:** | 5.1, 5.3, 5.8.1, 5.8.4, 5.16, 5.18 |
| **Task Due Date:** | Friday 23rd April 2010 |

# PARTICIPANT DECLARATION

I declare that the completed assessment task I have submitted represents, to the best of my knowledge, my original work. Information from any other source has been correctly referenced. The material contained in the assessment tasks has not been submitted for any other form of credit, in any other learning environment.

Participant’s Signature:

**MARKING GUIDELINES**

|  |  |  |
| --- | --- | --- |
| Question | Marking Criteria | Marks Awarded |
| 1 | * Student suggest 3 correct methods stating how the foreign particles may enter the bloodstream
* Student suggest 1-3 methods stating how foreign particles. Some statements are incorrect
 | 32-1 |
| 2 | * Students directly describes the bodies methods of defence against foreign pathogens
* Student does not account mechanism to prevent disease in the body
 | 21 |
| 3 | * Students describe a host cell
 | 1 |
| 4 | * Suggests reasons for yoghurt as a mechanism to restore the natural balance of microbes in the body
* Student does not outline the benefit of food such as yoghurt when they are ill.
 | 21 |
| 5 | * Define protozoan and gives three correct examples
* Student does not give correct definition or inadequate examples
 | 21 |
| 7 | * Outline what ringworm is, outlining what causes it and why it is considered either and internal or external parasite
 | 2 |
| 8 | * Correctly list 3 methods of disease spreading by direct contact
* Correctly lists 2 or 1 methods of disease spreading by direct contact.
 | 32-1 |
| 9 | * Correctly states 2 vectors of disease
* Correctly states 1 vector of disease
 | 21 |
| 10 | * Describes how salmonella causes food poisoning
 | 1 |
| 11 | * Suggests reasons why people should wear gloves
 | 1 |
| 12 | * Suggest reasons why life expectancy has improved, sites acknowledgements from secondary sources to prove that women have longer life expectancies and correctly completes a column graph
* Students suggest reasons why life expectancy has improved
* Suggest factors that have led to a change in life expectancy, does not complete part b and c of question.
 | 54-21-0 |
| 13 | * Correctly read information from the table to justify which disease children are immunised against, why there is a different percentage for different diseases and suggests two reasons why people may not wish to get their children immunised
* Understanding the not all children are immunised and answers questions a and b correctly but cannot suggest correct reasons to why some children may not get immunised
* Correctly completes part a, fails to correctly complete any other sections
 | 54-21-0 |
| 14 | * States the contributions of Edward Jenner outlining what scientific conclusions he used to find the results he did
 | 1 |
| 15 | * Student correctly outlines the life of a scientist with particular detail to the studies the completed.
* States their major achievements/accomplishments outlining the year and the particular noble prize they won
* Outline the life of scientist, does not outline the significant contributions to science
* Does not attempt question
 | 54-21-0 |
|  **TOTAL POSSIBLE MARKS** |  /35 |

**YEAR 9**

**RESEARCH TASK – FIGHTING DISEASE**

1. Suggest 3 ways in which foreign particles could enter the inside of your body.
2. Imaging you are a microbe attacking a human body. Write a paragraph about your invasion of the bloodstream. How did you arrive there? What line of defence did you encounter?
3. Why is the cell invaded by a virus called the **host** cell?
4. Often, after taking medicine or being ill, people are advised to eat yoghurt. Find out why this is done and what the benefits of this food may be?
5. What is a **protozoan**? Identify 3 diseases caused by protozoan
6. Why is the animal or plant in which a parasite causes disease called the **host?**
7. What is **ringworm**? What causes it? is it an internal or external parasite?
8. List 3 ways disease can be spread by direct contact?
9. Name 2 vectors of disease?
10. How is salmonella (a type of food poisoning) spread?
11. Why should people serving foods in shops and restaurants wear gloves or use tongs?
12. **LIFE EXPECTANCY FOR AUSTRALIAN 1901- 93**

|  |  |
| --- | --- |
| **Year** | **Life expectancy** |
|  | **Males** | **Females** |
| 1901 | 55years | 59years |
| 1983 | 72 years | 79 years |
| 1993 | 75 years | 81 years |

* 1. Suggest what major factors have influenced the changes in life expectancy between 1901 – 1993
	2. Why do females have a higher life expectancy
	3. Represent this data in a **bar graph**
1. **Immunisation of Children in Australia (6 years or less, 1990)**

|  |  |
| --- | --- |
| **Type of Condition** | **Proportion of children immunised%** |
| Diphtheria/tetanus | 86.3 |
| Whooping cough | 70.9 |
| Polio | 72.1 |
| Measles | 86.0 |
| Mumps | 80.5 |

* 1. Against what disease where most children immunised
	2. What might there be difference in the percentage of children immunised for each disease
	3. What is the ADT vaccine given to 15-19 year olds
	4. Give 2 reasons why people might not want to immunise their children
1. **Edward jenner was the first to use a vaccine. What did he do**
2. **Choose one of the following scientists**
* Sir Howard Florey
* Sir Frank Macfarlane Burnet
* Professor Peter Doherty

**Find out**

* Outline their life
* The area of science they specialised in
* What their major achievement was
* The year and the particular Nobel Prize they won