HEALTH AND HUMAN DEVELOPMENT

Written examination

Wednesday 4 November 2015
Reading time: 3.00 pm to 3.15 pm (15 minutes)
Writing time: 3.15 pm to 5.15 pm (2 hours)

QUESTION AND ANSWER BOOK

Structure of book

<table>
<thead>
<tr>
<th>Number of questions</th>
<th>Number of questions to be answered</th>
<th>Number of marks</th>
</tr>
</thead>
<tbody>
<tr>
<td>13</td>
<td>13</td>
<td>100</td>
</tr>
</tbody>
</table>

- Students are permitted to bring into the examination room: pens, pencils, highlighters, erasers, sharpeners and rulers.
- Students are NOT permitted to bring into the examination room: blank sheets of paper and/or correction fluid/tape.
- No calculator is allowed in this examination.

Materials supplied
- Question and answer book of 22 pages.
- Additional space is available at the end of the book if you need extra paper to complete an answer.

Instructions
- Write your student number in the space provided above on this page.
- All written responses must be in English.

Students are NOT permitted to bring mobile phones and/or any other unauthorised electronic devices into the examination room.
**Instructions**

Answer **all** questions in the spaces provided.

**Question 1** (9 marks)

Life expectancy at birth, by sex and Indigenous status, 2010–2012

![Bar graph showing life expectancy at birth for Indigenous and non-Indigenous Australians by sex (males and females) for the years 2010–2012.]


a. Explain the difference between life expectancy and health-adjusted life expectancy.  
   
   2 marks

b. Use the data in the graph above to compare the health status of non-Indigenous Australian males and females to Indigenous Australian males and females.  
   
   2 marks

**Question 1 – continued**
c. Explain why mental health differs between non-Indigenous Australians and Indigenous Australians.  

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d. Select one social determinant and explain how it might contribute to the differences in life expectancy at birth between non-Indigenous Australians and Indigenous Australians.  

Social determinant ____________________________________________________  

Explanation ___________________________________________________________________________  

_________________________________________________________________________  

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Question 2 (7 marks)
The Australian healthcare system consists of private health insurance, Medicare and the Pharmaceutical Benefits Scheme (PBS).

a. What is private health insurance? 2 marks

b. Select one value underpinning the Australian healthcare system and describe how private health insurance reflects this value. 3 marks

    Selected value

    Description

    

c. Provide one similarity and one difference between Medicare and the PBS. 2 marks

    Similarity

    

    Difference

    


**Question 3 (4 marks)**

**Under-five mortality rate, 1990 and 2012**

*deaths per 1000 live births*

<table>
<thead>
<tr>
<th>Region</th>
<th>1990</th>
<th>2012</th>
<th>2015 target</th>
</tr>
</thead>
<tbody>
<tr>
<td>sub-Saharan Africa</td>
<td>177</td>
<td>93</td>
<td></td>
</tr>
<tr>
<td>southern Asia</td>
<td>126</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oceania</td>
<td>74</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Caucasus and Central Asia</td>
<td>73</td>
<td></td>
<td></td>
</tr>
<tr>
<td>south-eastern Asia</td>
<td>71</td>
<td></td>
<td></td>
</tr>
<tr>
<td>western Asia</td>
<td>65</td>
<td></td>
<td></td>
</tr>
<tr>
<td>northern Africa</td>
<td>73</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Latin America and the Caribbean</td>
<td>54</td>
<td></td>
<td></td>
</tr>
<tr>
<td>eastern Asia</td>
<td>53</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>


**a.** Australia is classified as a developed country.

List two characteristics of a developed country.  

1. ________________________________________________________________  

2. ________________________________________________________________  

**b.** Using the information from the graph, compare the progress being made by Oceania and northern Africa in relation to achieving Millennium Development Goal 4: Reduce child mortality.  

[Graph showing under-five mortality rates for various regions with data points and bars to compare progress over time.]  

2 marks

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TURN OVER
Question 4 (6 marks)

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Source: Alicia Thomas, ‘New No Excuse Needed campaign aims to empower young Victorians to say no to alcoholic drinks’, The Courier online, 9 January 2015

a. Outline one possible physical health outcome that may result from this project. 1 mark

b. Describe one way in which this project supports VicHealth’s mission. 2 marks

c. State one principle of the social model of health and explain how it is reflected in this project. 3 marks

Principle

Explanation
Question 5 (8 marks)

Regional variations in the prevalence of osteoporosis

<table>
<thead>
<tr>
<th></th>
<th>major cities</th>
<th>inner regional</th>
<th>other areas</th>
</tr>
</thead>
<tbody>
<tr>
<td>males</td>
<td>8</td>
<td>6</td>
<td>4</td>
</tr>
<tr>
<td>females</td>
<td>6</td>
<td>4</td>
<td>2</td>
</tr>
<tr>
<td>all</td>
<td>4</td>
<td>3</td>
<td>2</td>
</tr>
</tbody>
</table>


a. Define ‘prevalence’. 1 mark

b. Identify two trends evident in the graph above. 2 marks

1. 

2. 

c. Osteoporosis is classified as part of the National Health Priority Area (NHPA) ‘Arthritis and musculoskeletal conditions’.

What is osteoporosis? 2 marks
d. Describe one health promotion program that has been developed to address the NHPA 'Arthritis and musculoskeletal conditions'. 3 marks
Question 6 (8 marks)
Between 2011 and 2013, the Australian Government conducted the Australian Health Survey (AHS), which collected in-depth data on nutrition. One of the preliminary findings was that the average daily consumption of sodium was 2404 mg per day, significantly higher than the 460–920 mg recommended by the National Health and Medical Research Council (NHMRC).

a. Why does the Australian Government conduct nutrition surveys? 2 marks

b. Name the Australian Dietary Guideline that is related to sodium consumption. 1 mark

c. Outline how excessive sodium consumption can have an impact on health. 2 marks

d. Describe one program, developed by a non-government organisation, that may address sodium consumption. 3 marks
**Question 7 (9 marks)**

The World Health Organization (WHO) has released new priorities that provide the agenda for its work. These priorities give focus and direction to the key issues that are of greatest importance to the WHO. The priorities are represented by the following graphic.

Source: [www.who.int/about/agenda/en/](http://www.who.int/about/agenda/en/)

**a.** Select one of the priorities and explain what it includes. 3 marks

Priority ________________________________

Explanation ___________________________________________________________________
_____________________________________________________________________________
_____________________________________________________________________________
_____________________________________________________________________________
_____________________________________________________________________________
_____________________________________________________________________________

**Question 7 – continued**
b. How does the priority selected in \textbf{part a.} help to promote sustainable human development? 6 marks
Question 8 (9 marks)

More than 40% of all kids in Tanzania are stunted.

We couldn’t find a 9-year-old in Mirongoine, Tanzania who stood taller than this line.


a. Identify the Millennium Development Goal represented in the image above. 1 mark

b. Give two reasons why the Millennium Development Goal identified in part a. is important. 2 marks

1. ____________________________________________________________

   ____________________________________________________________

   ____________________________________________________________  

2. ____________________________________________________________

   ____________________________________________________________

   ____________________________________________________________
c. Describe a program that could be implemented in Tanzania to help reduce the level of stunting in children. 

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d. How would the program described in part c. help to promote human development in Tanzania? 

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Question 9 (8 marks)

Indicators of health status for a range of countries

<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>0.933</td>
<td>82.5</td>
<td>5</td>
<td>6</td>
<td>99.1</td>
</tr>
<tr>
<td>Turkey</td>
<td>0.759</td>
<td>75.3</td>
<td>14</td>
<td>20</td>
<td>91.3</td>
</tr>
<tr>
<td>Chad</td>
<td>0.372</td>
<td>51.2</td>
<td>150</td>
<td>980</td>
<td>16.6</td>
</tr>
</tbody>
</table>


a. Using data from the table, describe the health status of Australia compared to Chad. 2 marks

____________________________________________________________________________________

____________________________________________________________________________________

b. Using data from the table, explain how access to healthcare could contribute to the differences in health status between Australia and Chad. 3 marks

____________________________________________________________________________________

____________________________________________________________________________________

____________________________________________________________________________________

c. Turkey’s Human Development Index (HDI) increased from 0.496 to 0.759 between 1980 and 2013. In the same period, the average life expectancy rose by 16.6 years.

List three other HDI indicators that may have also increased. 3 marks

1. ____________________________

2. ____________________________

3. ____________________________
Recilia and her neighbour Delfinia live in a remote village in the Inhambane region of Mozambique. Despite droughts and flash floods making it difficult to grow food, Oxfam Unwrapped goats provided through partner organisation, Malhalhe, are transforming their lives for the better.

Recilia says her goats have given her hope. ‘I feel … secure and I see my future differently now,’ she says.

As the goats breed, Recilia can sell them, meaning she no longer has to rely on crops that are too often destroyed by drought and flood. With the income she receives selling goats, she now buys vegetables and rice, as well as clothes and blankets for her family. It also helps pay her children’s school fees.

‘I know that if I have a problem in my family, I can sell a goat for food. I can find money to solve the problem.’

Recilia is saving as well. She plans to buy pots, cutlery, crockery, and a basin for washing. During the next rainy season, she plans to hire a plough. This will enable her to produce enough to feed not just her family, but also to sell food in her community, allowing her to buy school books and uniforms for her children.


a. Using two elements of sustainability, evaluate the aid program provided by Oxfam and Malhalhe. 4 marks

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b. Use examples from the Oxfam program on page 15 to describe
   i. the interrelationship between health and human development  
   ii. the interrelationship between health and sustainability.

Question 11 (10 marks)
Mavis is 76 years old and has been diagnosed with colorectal cancer. Her family is devastated by this diagnosis as Mavis has been an outgoing, independent woman. As a result of her diagnosis, Mavis has had to visit the doctor more regularly to ensure management of the condition and to be prescribed appropriate medication.

a. What is cancer?
b. Outline one direct cost to the individual and one intangible cost to the community that results from colorectal cancer.  

Direct cost to the individual ________________________________________________________  

__________________________________________________________________________  

Intangible cost to the community ________________________________________________  

__________________________________________________________________________  

c. Identify two services covered by Medicare that Mavis could access as a result of her diagnosis.  

1. ________________________________________________________________  

2. ________________________________________________________________  

d. As a result of her diagnosis, Mavis has been advised to make changes to her food intake.  
Taking into consideration the role of nutrition in relation to colorectal cancer, explain two recommendations that could be given to Mavis.  

1. ________________________________________________________________  

2. ________________________________________________________________
**Question 12 (7 marks)**

a. Give two reasons why Australia provides aid to developing countries.  
   2 marks
   
   1. ________________________________________________________________
   
      ________________________________________________________________
   
   2. ________________________________________________________________
   
      ________________________________________________________________

b. What are bilateral aid and multilateral aid?  
   2 marks
   
   Bilateral aid __________________________________________________________
   
      ________________________________________________________________
   
   Multilateral aid ______________________________________________________
   
      ________________________________________________________________

   c. Give one example of multilateral aid and explain how it could be used to promote global health.  
   3 marks
   
   Example _____________________________________________________________
   
   Explanation __________________________________________________________
   
      ________________________________________________________________
   
      ________________________________________________________________
**Question 13** (7 marks)

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Source: extract from ‘Investing in Girls is the Right and Smart Thing to Do’, Every Woman Every Child, Global Education First Initiative, UNICEF, 2013 (www.ungei.org/resources/index_5766.html)

a. Explain two reasons that could account for the link between girls’ education and any of the indicators in the information above.  

1. 

2. 

b. The Department of Foreign Affairs and Trade (DFAT) requires that 80 per cent of Australia’s development aid has a direct impact on women and girls.

State the priority of the Australian Government’s aid program that is reflected in this statement.  

1 mark
c. Explain how gender equality may influence human development. 2 marks
Extra space for responses

Clearly number all responses in this space.
An answer book is available from the supervisor if you need extra paper to complete your answer. Please ensure you write your student number in the space provided on the front cover of the answer book. At the end of the examination, place the answer book inside the front cover of this question and answer book.