

## 3625-31 Level 3 Advanced Technical Extended Diploma in Health and Care (1080)

March 2018

Q	Acceptable answer(s)	Guidance	Max marks
1	<p><b>One mark for each of the following, up to a maximum of two marks:</b></p> <ul style="list-style-type: none"> <li>• provides structure</li> <li>• absorbs nutrients from food</li> <li>• converts nutrients into energy</li> <li>• carries out specialised functions.</li> </ul>		2
2	<p><b>a) One mark for the following:</b> A body system is a collection of organs, tissues and processes which carry out a specific function.</p> <p><b>b) One mark for one of the following:</b></p> <ul style="list-style-type: none"> <li>• Cardiovascular</li> <li>• Respiratory</li> <li>• Digestive</li> <li>• Reproductive</li> <li>• Endocrine</li> <li>• Urinary systems</li> <li>• Lymphatic</li> <li>• Musculoskeletal</li> <li>• Nervous.</li> </ul>	<p>For part a) do <b>not</b> accept an answer that does not include reference to organs, tissues and processes.</p> <p>Accept any other appropriate response.</p>	2
3	<p><b>One mark for each of the following points:</b></p> <ul style="list-style-type: none"> <li>• the process of cleansing the system/filter metabolic waste/ filter excess ions and chemicals from the blood to form urine which is excreted from the body</li> <li>• to keep chemicals/ potassium and sodium, and water in balance.</li> </ul>		2
4	<p><b>a) One mark for the following:</b> Sarah will be dehydrated.</p> <p><b>b) One mark for the following:</b></p>	<p>For a) do <b>not</b> accept 'the body temperature will rise' as an answer.</p>	2

	Sarah should increase fluid intake/move into shade/use a fan.		
5	<p>a) <b>One mark for the following, up to a maximum of one mark:</b> Wellbeing relates to an individual's sense of comfort, happiness and health.</p> <p>b) <b>One mark for any one of the following, up to a maximum of one mark:</b></p> <ul style="list-style-type: none"> <li>• age</li> <li>• social</li> <li>• spiritual</li> <li>• economic</li> <li>• psychological</li> <li>• mental health</li> <li>• physical health.</li> </ul>		2
6	<p><b>One mark for each of the following up to a maximum of three marks:</b></p> <ul style="list-style-type: none"> <li>• The possible treatment options will include medicines</li> <li>• The possible treatment options will include surgical procedures</li> <li>• The possible treatment options will include investigations</li> <li>• The treatment approaches will be based on reducing symptoms rather than the whole person approach</li> </ul>	Candidates must state the approach is to reduce symptoms only (point 4) to gain maximum marks.	3
7	<p><b>One mark for each explanation up to a maximum of four marks, or a maximum of two marks for a description of functionalist theory combined with explanations to gain four marks.</b></p> <p><u>Functionalist theory in relation to health.</u> <u>One mark for each explanation, up to maximum of four marks:</u></p> <ul style="list-style-type: none"> <li>• This approach is concerned with the 'sick role' and the associated illness behaviour</li> <li>• Health is a prerequisite for a society to function smoothly and to fall sick means that an individual cannot perform their role</li> <li>• Illness is regarded as authorised if a doctor "legitimises" the illness</li> </ul>		4

	<ul style="list-style-type: none"> <li>The health care system functions to maintain the wellbeing of societal members and of the social system as a whole.</li> </ul> <p><u>Description of functionalist theory.</u> <u>One mark for each point, up to a maximum of two marks:</u></p> <ul style="list-style-type: none"> <li>The theory stresses the essential stability and cooperation within society (1).</li> <li>Society is likened to a biological organism (1) where the whole is seen to be comprised of interconnected and integrated parts (1).</li> <li>This is based on a general consensus on core values and norms, (1) which translate into members of society performing social roles (1).</li> </ul>		
8	<p><b>One mark for each description of the following impacts on healthcare practice, up to a maximum of three marks:</b></p> <ul style="list-style-type: none"> <li>personal choice can limit treatment options</li> <li>active participation in the health care service/treatment</li> <li>how the treatment/service is delivered to the individual</li> <li>adaptations to person-centred approaches</li> <li>respect for the individual's autonomy in decision-making even though it may not be seen as the best option</li> <li>promotes inclusive practice.</li> </ul>		3
9	<p><b>One mark for each explanation of impacts up to a maximum of four marks:</b></p> <ul style="list-style-type: none"> <li>Low self-esteem can impact on an individual's mental health</li> <li>Low self-esteem can make an individual more prone to stress related illnesses</li> <li>Low self-esteem can affect an individual's ability to make healthy relationships</li> <li>Low self-esteem can make an individual vulnerable to abusive behaviour</li> <li>Low self-esteem can mean that individuals do not seek professional help for their mental health issues.</li> </ul>		4

<p><b>10</b></p>	<p><b>One mark for each description of an aspect of the model up to a maximum of two marks. One mark for each explanation of impacts up to a maximum of two marks:</b></p> <ul style="list-style-type: none"> <li>• The model takes a holistic approach (1) and there recognises and values different aspects of an individual’s health and wellbeing (1)</li> <li>• The model promotes easier access to healthcare services (1) to help ensure people can use services when required (1)</li> <li>• The model acknowledges the continuous process of change (1) therefore the individual’s care plan must be current to be effective (1)</li> <li>• The model empowers individuals (1) to gain control of their health and wellbeing/ contribute / make decisions (1)</li> <li>• The model recognises different healthcare approaches such as alternative therapies (1) therefore health care services can be more focused on individual needs and preferences (1)</li> <li>• The model encourages integrated working with other services/professionals (1) for the overall benefit of the individual (1)</li> </ul>	<p>Do <b>not</b> accept a definition of biopsychosocial model.</p>	<p><b>4</b></p>
<p><b>11</b></p>	<p><b>One mark for each description of the main stages in the process, up to a maximum of four marks:</b></p> <ul style="list-style-type: none"> <li>• Food is ingested.</li> <li>• The digestive enzymes throughout the digestive system break down the food into smaller particles.</li> <li>• In the small intestine food particles are assimilated through the wall of the small intestine.</li> <li>• The fats, proteins and carbohydrate particles travel in the blood to the cells where energy is created.</li> </ul>		<p><b>4</b></p>

12	<p>a) Genetics is the study of inherited characteristics.</p> <table border="1"> <thead> <tr> <th>b) Genetic condition.</th> <th>c) Body system.</th> </tr> </thead> <tbody> <tr> <td>progressive cardiac conduction defect</td> <td>cardiovascular/circulatory</td> </tr> <tr> <td>asthma, cystic fibrosis, lung carcinoma</td> <td>respiratory</td> </tr> <tr> <td>Crohn's disease, coeliac disease</td> <td>digestive/metabolic/excretory</td> </tr> <tr> <td>autosomal dominant polycystic kidney disease</td> <td>urinary/renal</td> </tr> <tr> <td>multiple sclerosis, Huntington's disease, Parkinson's disease</td> <td>nervous</td> </tr> <tr> <td>diabetes, congenital hypothyroidism</td> <td>endocrine</td> </tr> <tr> <td>osteoarthritis, muscular dystrophy, achondroplasia</td> <td>musculoskeletal</td> </tr> <tr> <td>uterine fibroids, polycystic ovary disease</td> <td>reproductive</td> </tr> <tr> <td>Hodgkinson lymphoma, haemophilia, thalassemia</td> <td>lymphatic</td> </tr> </tbody> </table>	b) Genetic condition.	c) Body system.	progressive cardiac conduction defect	cardiovascular/circulatory	asthma, cystic fibrosis, lung carcinoma	respiratory	Crohn's disease, coeliac disease	digestive/metabolic/excretory	autosomal dominant polycystic kidney disease	urinary/renal	multiple sclerosis, Huntington's disease, Parkinson's disease	nervous	diabetes, congenital hypothyroidism	endocrine	osteoarthritis, muscular dystrophy, achondroplasia	musculoskeletal	uterine fibroids, polycystic ovary disease	reproductive	Hodgkinson lymphoma, haemophilia, thalassemia	lymphatic	Candidates may be awarded full marks for providing the same body system for two genetic conditions.	5
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13	<p>a) Answers may include any three of the following tests, up to a maximum of three marks:</p> <ul style="list-style-type: none"> <li>• ECG</li> <li>• Blood pressure</li> <li>• Peak flow</li> <li>• Urinalysis</li> <li>• EEG</li> <li>• Glucose monitoring</li> <li>• Pregnancy test</li> <li>• Complete blood count</li> <li>• X-ray</li> <li>• PCA.</li> </ul> <p>b) One mark for each of the following, up to a maximum of two marks:</p> <ul style="list-style-type: none"> <li>• heart rate is measured by taking an individual's pulse rate.</li> <li>• heart rate can be measured manually at a pulse point or by machine.</li> </ul>		5																				
14	a) One mark for each of the following:		6																				

	<ul style="list-style-type: none"> <li>• Meiosis is the process by which a cell divides into two gametes for the purpose of sexual reproduction</li> <li>• At the end of the process the resulting (haploid) cell contains 23 chromosomes rather than 46.</li> </ul> <p><b>b) One mark for a description of each of the following stages of the process. Maximum of two marks for only identifying the four stage without relevant description.</b></p> <ul style="list-style-type: none"> <li>• Prophase-Chromosomes in the parent cell nucleus are copied</li> <li>• Metaphase-Similar chromosomes pair up and DNA/genetic material is swapped</li> <li>• Anaphase- Chromosomes divide</li> <li>• Telophase-Cell divides into 2 with 23 chromosomes in each nucleus.</li> </ul>		
<p><b>15</b></p>	<p><b>Band 1: 1 – 4 marks</b>  Basic discussion showing minimal breadth of considerations. Few links to knowledge of Crohn’s disease and the impact on individuals. Made limited reference to theoretical perspectives and provided little or no justifications for these. The response lacked structure and coherency. Where facts were provided, these were sometimes incorrect.</p> <p>To access higher marks in the band the response will include some attempt to address theoretical perspectives with a satisfactory range of considerations.</p> <p><b>Band 2: 5 – 8 marks</b>  Clear and relevant discussion which makes a reasonable attempt to cover some considerations displaying good breadth of knowledge and understanding of Crohn’s disease and its potential impact on individuals. The discussion considers some theoretical perspectives which may be detailed in some areas. Throughout the discussion recommendations and opinions were offered with some justification and the use of some examples. The overall discussion is presented in a clear format and the use of terminology is mostly appropriate. Content is factually accurate.</p> <p>To access higher marks in the band, the discussion will be mostly detailed and contain some justifications and good links to theories. The overall discussion will be presented clearly and with some logical structure.</p>	<p><b>Indicative content</b></p> <ul style="list-style-type: none"> <li>• Signs and symptoms of Crohn’s disease</li> <li>• Genetic link, genetic research</li> <li>• Demographic factors</li> <li>• Relevant health care services and professionals</li> <li>• Sociological theories related to the disease process</li> <li>• Psychosocial impacts and perspectives</li> <li>• Biopsychosocial model</li> <li>• Individualised care in relation to culture, ethnicity and spiritual considerations.</li> </ul>	<p><b>12</b></p>

	<p><b>Band 3: 9 – 12 marks</b></p> <p>Comprehensive and clear discussion showing breadth of understanding across the main considerations which were supported by effective justification that displayed depth of understanding. Sound knowledge and understanding of Crohn’s disease and its impact on individuals. A well-reasoned discussion with accurate links to individual needs and theoretical approaches were considered. Throughout the discussion coherent opinions were offered with clearly defined examples. Relevant use of accurate terminology was evident. The entire discussion was relevant and factually accurate.</p> <p>To access higher marks in the band the response will be coherent, balanced and structured in a logical way. Clear consideration of Crohn’s disease on the individual’s family and friends. Strong links to theoretical approaches which are fully justified.</p>		
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