SUBJECT: Human Biological Science 1 – BIOH111
TYPE: Written assignment
DUE DATE: Non-teaching week Sunday 11:55pm
WORD LIMIT: 1000 +/- 10%
WEIGHT: 15%
TOTAL MARKS: 100

TASK:
Chose one (1) topic from the following list:

1. Describe the effect of aging on normal physiology of the cells.
2. Describe the effect of aging on normal physiology of the tissues.
3. Describe the effect of aging on normal physiology of the skin.
4. Describe the effect of aging on normal physiology of the skeletal system.
5. Describe and discuss cancer in the context of normal physiology of the cells.

If you want some inspiration on deciding of the topic…

If your assignment is on aging you may want to have a listen to the following TED talk about a current scientist who is pushing the boundaries on how we define aging and how we can address it to a point of immortality – this is not something that is required and cannot be referred to in your assignment unless you would like to use his primary papers as your references:
https://www.youtube.com/watch?v=_AzMYSLeKME

If your assignment is on cancer, you may find these 2 TED talks inspiring (you may want to listen to both so you can appreciate the 2 cellular processes that, when there is something wrong with them, can lead to development of cancer); both talks have alternative way of thinking about treatment of cancer that is grounded in understanding of cellular processes we also cover in the lectures:
https://www.ted.com/talks/william_li
https://www.ted.com/talks/bill_doyle_treating_cancer_with_electric_fields

TASK-SPECIFIC GUIDELINES:
Your assignment should include the following sections (you can use these as headings if you wish):

1. Normal physiology of cells/tissues/skeletal system (choose appropriate)
   - in this section you need to describe the normal physiology of the system you are examining in your assignment – you can use your lectures and textbook to guide you
   - make sure you are not describing everything we covered in lectures in your assignment; for example: if your assignment is on aging of skeletal system then there is no need here to include detailed anatomy and you need to include only relevant physiology (if aging affects bone growth in length then
you need to explain in detail normal bone growth in length but only mention that bones also grow in width but use different steps to do this

- in this section you will need to have at least 2 paragraphs – one that will talk about the system in general and how it connects to the whole body (importance of the system to the whole body) and another explaining the system itself (e.g. cells) with the relevant physiology included (you may decide to put this into a 3rd paragraph)

- this section should be the biggest contributor to your assignment (recommend up 500-600 words)

2. Effect(s) of aging/cancer (choose appropriate) on cells/tissues/skeletal system (choose appropriate)
   - in this section you need to describe what is “going wrong” with the chosen system (e.g. cells) when they are aging or they are affected by cancer
   - make sure that you are describing “what is going wrong” with the normal physiology you described in the previous session – you need to connect the dots for the reader (e.g. if you were talking about normal bone growth in length above then in this section you don’t need to be explaining how aging affects bone growth in width)
   - while you can use your textbook for initial research into this section, one (1) reference to a primary research article is expected

- this section should be the middle contributor to your assignment (recommend up 300-400 words)

3. Treatment within your discipline
   - in this section you can explore how you would “treat” someone with the particular condition you have chosen if they were your patient in your clinic
   - here you can explore options but please note 2 things:
     a) this section should be the smallest contributor to your assignment (recommend up to 100 words)
     b) the “treatment” you suggest needs to be grounded in the relevant physiology you described in the first session (e.g. you have described normal bone growth in length, then you described what goes wrong in aging with that particular process and here you need treatment that will be effective for bone growth (in length and/or width) not bone development)
     c) you will NOT be marked on the correctness of the treatment but what you can do is consult with your lecturer/online academic if you wish

- while you can use your textbook for initial research into this section, one (1) reference to a primary research article is expected in this section to support your treatment claims

GENERAL GUIDELINES AND PRESENTATION FOR THIS TASK:
In order to be successful in this assignment you will need to:

1. assignment need to be done in Microsoft Word™ format and uploaded as a .pdf document

2. use Arial font, size 11, 1 ½ line spaced. Your student name and number should be in the “header” on every page.
3. read Chapter 1, sections 1.1, 1.2, 1.3 and 1.6 of the Communication Skills Handbook, Summers and Smith – these sections will give you an overview on the “nuts-and-bolts” of writing: formal writing in third person grammar will be expected in this assignment: you can use headings and/or paragraphs only to give cohesion and flow to your text, extensive editing, referral to your literary devices and cohesion within headings, will earn higher marks on professional writing. Endeavour College also developed an Enabling Learning Resources - Academic Skills course on the topic of Features of Academic Writing and Paraphrasing, summarising and referencing. You will find this resource here: https://learn.endeavour.edu.au/course/view.php?id=2040&section=2. You may also find the following video useful: “How to paraphrase” found here: http://endeavour.libguides.com/Study_Skills

4. Development of your academic writing can also be assisted by using **grammarly** – a free resource that is able to check your grammar. To use it please see the following website: https://www.grammarly.com/

5. read Chapter 5 of the Communication Skills Handbook, Summers and Smith – this chapter will lead you to think about how to research the 2 required primary research articles. Endeavour Library also has a very useful course on the topic of primary research definitions and searching. You will find this course here: https://learn.endeavour.edu.au/course/view.php?id=287

6. primary sources (journal articles) are preferred but secondary sources can be used to attain marks at the “developed” standard. Secondary sources interpret and analyse primary sources. Texts, and peer-reviewed, online equivalents to texts (usually .org or .edu or .gov), are tertiary sources. **Do not use tertiary sources or Wikipedia.** For further information please see videos entitled “Evaluating sources” and “Primary, secondary & tertiary sources in the health sciences” found here: http://endeavour.libguides.com/Study_Skills


**GENERAL GUIDELINES:**

**Academic Writing and Student Integrity:**

Writing on all assessments is expected to be of an academic standard and presentation, and all non-original work must be properly referenced. Please note that Turnitin score of 25% or higher can lead to negligent or dishonest plagiarism. To assist you in avoiding high Turnitin score and to show you how to use Turnitin for similarity reporting we have prepared a video which you can find here: https://www.youtube.com/watch?v=AnoDZnFple4

Note that all forms of plagiarism and cheating are taken very seriously at Endeavour. Please ensure that you are familiar with the Student Integrity Policy: http://www.endeavour.edu.au/docs/policies-and-handbooks/Student_Integrity_Policy.pdf and that you are mindful of avoiding the use of any work that is not your own without proper attribution as well as never allowing your work to be used by another student.
Word Count:

Word count must be clearly displayed on the first page. Words in excess of 10% beyond the required word count will not be marked. Word count does include in-text citations. Diagrams are not compulsory and are not required, but you may want to use them to illustrate a point. NOTE: if you use them they have to be your own compilation - copying and pasting of other authors’ diagrams is not accepted.

Quoting

Quotes are NOT appropriate in this assessment. Only paraphrasing of ideas is acceptable. In Section 1, when referencing in-text using the prescribed textbook, you only need to place the reference at the end of each paragraph however if any information is obtained from alternative source/s, the reference must appear where the information is included as per the APA guidelines. Paraphrasing for Section 2 and 3 needs to be referenced as per the APA Referencing Guide.pdf available for download from the library website: https://source.endeavourlearninggroup.com.au/Public%20Documents%20Library/DOCID-3-2602.pdf If you require any help on the paraphrasing please refer to the point 3 in the GENERAL GUIDELINES AND PRESENTATION FOR THIS TASK section above.

Late Submission

Assessments must be handed in by the stated time. Students submitting an assessment after the due date and without an approved extension of time will lose 10% of their mark on the assessment per day it is late. See www.endeavour.edu.au for all relevant forms and the Assessment Policy.

Submission of the Assignment

The assignment is to be submitted electronically no later than Sunday 11:55 pm AEST of Non-teaching week. Your final assignment will need to be submitted to Turnitin™. Your final draft which you upload must comply with anti-plagiarism clauses in the Assessment Policy (<15% similarity index, no inappropriate (non-peer reviewed) website)
<table>
<thead>
<tr>
<th>Criteria</th>
<th>100%</th>
<th>80%</th>
<th>60%</th>
<th>40%</th>
<th>20%</th>
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<td><strong>Description and understanding of the normal physiology</strong>&lt;br&gt;(overarching physiology)&lt;br&gt;10%</td>
<td>10</td>
<td>8</td>
<td>6</td>
<td>4</td>
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<td><strong>Description and understanding of the normal physiology</strong>&lt;br&gt;(relevant physiology)&lt;br&gt;30%</td>
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<td>24</td>
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<tr>
<td><strong>Description and understanding of aging/cancer pathophysiology</strong>&lt;br&gt;20%</td>
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<td>16</td>
<td>12</td>
<td>8</td>
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- **Excellent understanding of the overarching normal physiology of the chosen system.**
- **Very good understanding of the overarching normal physiology of the chosen system.**
- **Good understanding of the overarching normal physiology of the chosen system.**
- **Some evidence of understanding of the overarching normal physiology of the chosen system.**
- **Some misunderstanding of the overarching normal physiology of the chosen system.**
- **Major misunderstanding of the overarching normal physiology of the chosen system.**

- **Relevant normal physiology identified.**
- **Most aspects of the relevant normal physiology are correctly and concisely discussed.**
- **Some aspects of relevant normal physiology are discussed, but not in a concise manner and are partially incorrect or important steps are missing.**
- **Limited and/or partially incorrect understanding of the pathophysiology.**
- **No pathophysiology identified.**
- **Relevant normal physiology is not discussed in the context of overarching physiology.**

- **Excellent understanding of the pathophysiology.**
- **Very good understanding of the pathophysiology.**
- **Good understanding of the pathophysiology.**
- **Some understanding of the pathophysiology.**
- **Limited and/or partially incorrect understanding of the pathophysiology.**

- **Link between the normal physiology and**
<table>
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<th>Section</th>
<th>Marks</th>
<th>Criteria</th>
<th>Example</th>
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</thead>
<tbody>
<tr>
<td><strong>aging/cancer and pathophysiology</strong></td>
<td>10%</td>
<td>and pathophysiology is correct and extensive.</td>
<td>No link between the normal physiology and pathophysiology</td>
</tr>
<tr>
<td><strong>Linking of normal physiology with pathophysiology and with proposed treatment</strong></td>
<td>5%</td>
<td>Selected treatment shows clear understanding of how the treatment links to the underlying normal and pathophysiology and is concisely articulated.</td>
<td>0 No link between treatment and underlying normal and pathophysiology.</td>
</tr>
<tr>
<td><strong>Written language</strong></td>
<td>15%</td>
<td>Well-articulated and concise language.</td>
<td>1 Language is difficult to understand or is incoherently written.</td>
</tr>
<tr>
<td><strong>Referencing (in-text citations)</strong></td>
<td>5%</td>
<td>Correct in-text referencing (citations) and using two (2) primary sources.</td>
<td>0 No in-text referencing (citations).</td>
</tr>
<tr>
<td><strong>Referencing (overall style)</strong></td>
<td>5%</td>
<td>High level of APA referencing style using the Endeavour Referencing Guide.</td>
<td>0 No references list included. OR Incorrect referencing style used.</td>
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