

**Sequencing Question on Life Cycle of the Human Malaria Parasite**

**Student Reg No**

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**Date Of Birth (dd/mm/yy)**

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The twelve statements below have been arranged in random order. Select those statements that are relevant and appropriate to the **Life Cycle of the Human Malaria Parasite in the Mosquito**, from the initial bite of an infected person, to the mature parasites that infect during a subsequent bite, and place them in the sequence in which they occur.

Letters that identify each Statement

- A Female mosquito
- B Oocyst develops on gut wall
- E *Anopheles*
- G Fertilization occurs in the salivary gland
- H *Aedes*
- K Bites person infected with *Plasmodium*
- L Gametocytes
- N Sporozoites migrate to salivary gland
- P Merozoites
- T Fertilization occurs in the digestive tract
- V Gametocytes migrate to salivary gland
- Z Male mosquito

**Please note that:**

Not all the statements may be relevant or appropriate. NOTE that there may be more than one correct order (statements may justifiably be placed in more than one order relative to each other). The marking scheme takes account of alternative correct answers. Marks are given for partially correct answers.

**FOR ROUGH WORKING only:**

**Excluded Items** From the list above, identify the statements that are incorrect or inappropriate to the question. Enter the identifying letter for each of these statements here:

**EXCLUDED ITEMS**

**Included Items** From the list above, identify the statements that are appropriate to the question. Write the identifying letter for each such statement here:

**INCLUDED ITEMS (complete and proceed to the next instruction)**

**Order of Included Items** Arrange the included items (from the box immediately above) in order as stated in the question. Write them in the box below, in the appropriate order.

**ORDER OF INCLUDED ITEMS (rough working : this box is not marked)**

Fill in your Final Answer clearly using only one UPPER CASE letter per box, for example

A	B	C	D	E	F	G	H
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**FINAL ANSWER**

Record your answer by entering the letters for each included statement, in the correct order, in the boxes below.

1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	11th	12th

**2477529174**

Comments:

Dear Sue and Niall, I will try to catch you on Friday but in case I don't can I ask if there is a QTI question type that could handle what we call a 'sequencing question' and include in the Biology exams. I know you do have a question type where students have to put e.g. a series of statements in the correct order. Is there partial correct marking associated with this?

The sequencing question that we use in the Biology exam includes a series of up to 12 statements, not all of these are included in the sequence. (See attached file). The only part of the question that is marked are the final boxes. These sheets are scanned and marks are generated using a marking algorithm in excel.

If students exclude a statement that should be there but have the rest of the sequence correct they get some marks and the same if they mix up the order of two statements but the rest of the sequence is correct.

I don't think Moodle question types would mark this unless you generated every possible combination of sequences that gets some sort of marks and plug these in. Would your question type be able to handle this? If you think this is a possibility could we meet up with a marking scheme and have a go at creating this question using QTI?