

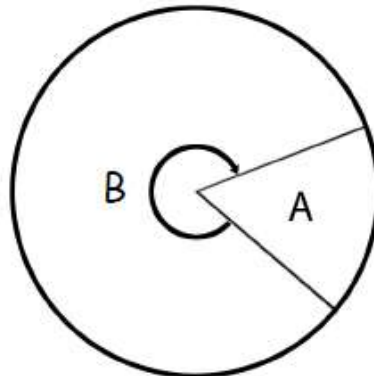


Biology
Leaving Certificate
Ordinary Level

Past Exam Questions on
Cell Division

Q4 Section A 2013

4. The diagram shows the cell cycle.



(a) There are two parts in the cell cycle – cell division and interphase. Match these two parts to the letters in the diagram.

Cell division Interphase

(b) Name the two types of cell division.

1..... 2.....

(c) Cancer is the uncontrolled multiplication of abnormal cells. Give two causes of cancer.

1.....
2.....

(d) Suggest a possible treatment for cancer.....
.....

Q14 Part (c) Section C 2012

(c) Tissue culture can be used to grow new tissues in the laboratory.

- (i) What is a tissue?
- (ii) Name a gas that would be needed for the growth of tissue in the laboratory.
- (iii) Why are sterile conditions needed to grow the tissue?
- (iv) What type of cell division, mitosis or meiosis, is involved in tissue culture?
- (v) What medical term is used to describe the disease caused by uncontrolled mitosis in human cells?
- (vi) Give two causes of this uncontrolled cell division.
- (vii) Draw a labelled diagram to show the normal cell cycle.
- (viii) What is the function of meiosis?

Q4 Section A 2009

4. Indicate whether the following are true (T) or false (F) by drawing a circle around T or F in each case.

Example: The cells produced by meiosis are haploid

T F

The cells produced by mitosis are identical.

T F

Meiosis gives rise to variation.

T F

Mitosis always produces four new cells.

T F

Meiosis is never involved in gamete formation.

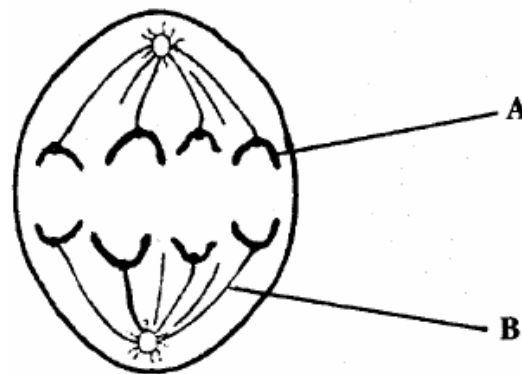
T F

Single-celled organisms use mitosis for reproduction.

T F

Q4 Section A 2005

4. The diagram shows a stage of mitosis.



(a) Name A and B

A B

(b) What is happening during this stage of mitosis?

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(c) How many cells are formed when a cell divides by mitosis?

(d) For what purpose do single-celled organisms use mitosis?

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