ENGLAND GCSE COMBINED SCIENCE OCR GATEWAY FOUNDATION · UNIT 1 · 25 QUESTIONS

Cell Level Systems — Practice Test

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button so it can be fixed.

1 **Hens' eggs have a large yolk. The yolk is one very large cell. Which part of the cell is the yolk?**

- A the cytoplasm with stored food
- B the mitochondria
- C the nucleus
- D the cell membrane, controlling what enters

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2 **Potatoes left in salty water go soft. Why?**

- A water enters the cells
- B salt enters the cells
- C water leaves the cells
- D the cells divide

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3 **A thermometer shows a patient's temperature is 39 degrees Celsius. Is this above or below normal body temperature?**

- A exactly normal
- B below normal
- C above normal
- D impossible to tell

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4 **Glass marbles are shaken in a tray. What does this model?**

- A particles gaining energy
- B particles freezing into place
- C particles disappearing completely
- D particles bonding together

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5 **A peach contains a stone. What is inside the stone?**

- A a flower
- B a seed
- C a root
- D a leaf

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6 **A sunflower leaf cell contains chloroplasts. What is the job of the chloroplasts?**

- A to absorb light for photosynthesis
- B to control the cell
- C to release energy in respiration from glucose
- D to store water as cell sap

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7 **A plant cell in pure water becomes turgid. What does turgid mean?**

- **A** swollen and firm
- **B** dead and dry
- **C** shrunken and soft
- **D** empty and flat

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8 **A pondweed plant releases 12 bubbles of oxygen in 3 minutes. How many bubbles does it release per minute?**

- **A** 8
- **B** 3
- **C** 4
- **D** 5

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9 **A person breathes 20 times per minute. How many breaths is that in one hour?**

- A 1260
- B 1200
- C 2400
- D 1140

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10 **A cell is 24 mm long in a photograph. Its real length is 0.2 mm. What is the magnification?**

- A × 220
- B × 240
- C × 60
- D × 120

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11 **Which part of a light microscope holds the slide?**

A the objective lens

B the stage

C the eyepiece

D the mirror

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12 **Which structure is found in a bacterial cell but not in an animal cell?**

A a nucleus

B a plasmid

C a mitochondrion

D a ribosome

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13 **One glucose molecule releases 30 molecules of ATP in respiration. How many ATP molecules are released from 3 glucose molecules?**

A 120

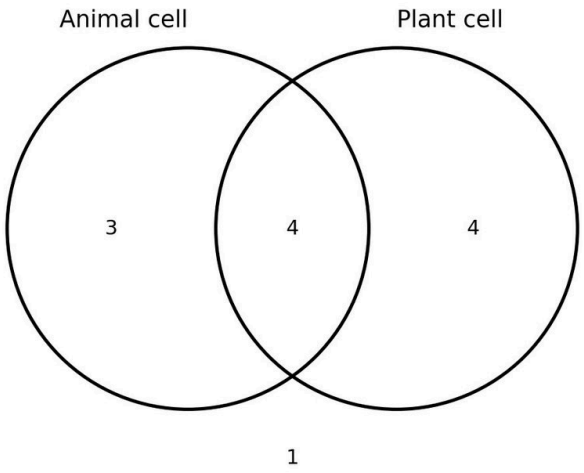
B 60

C 180

D 90

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14 **The Venn diagram shows features of animal cells and plant cells. How many features are found in both types of cell?**



A 3

B 4

C 6

D 5

Understand It with Pulse

Flag a mistake

15 **A forest absorbs carbon dioxide from the air. Which process is responsible?**

A combustion

B photosynthesis

C decomposition in the soil

D respiration

Understand It with Pulse | Flag a mistake

16 **What happens to an animal cell placed in pure water?**

A it swells and bursts

B it shrinks as water leaves it

C it becomes turgid and firm

D it stays the same size

Understand It with Pulse | Flag a mistake

17 **A cell image is 12 mm long and the magnification is 400 times. What is the real length of the cell?**

A 3 mm

B 0.03 mm

C 4800 mm

D 0.3 mm

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18 **What happens to excess amino acids in the body?**

A they become urea

B they are turned into glucose

C they are stored as glycogen

D they are breathed out

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19 **Why can plant cells keep differentiating throughout life, but most animal cells cannot?**

A plant cells divide more slowly

B plants keep meristem tissue

C animal cells have no nucleus

D plants have no DNA in their cells

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20 **A cell of real length 0.01 mm is viewed at a magnification of 100 times. How long is the image of the cell?**

A 2 mm

B 6 mm

C 1 mm

D 0.5 mm

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21 **What happens to heart rate during exercise?**

A it decreases

B it increases

C it stops

D it stays the same

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22 **What is the word equation for aerobic respiration?**

A glucose plus oxygen gives lactic acid

B glucose gives lactic acid

C carbon dioxide plus water gives glucose plus oxygen

D glucose plus oxygen gives carbon dioxide plus water

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23 **A piece of potato weighs 4 g. After soaking in pure water it weighs 4.4 g. What is the percentage increase in mass?**

A 5%

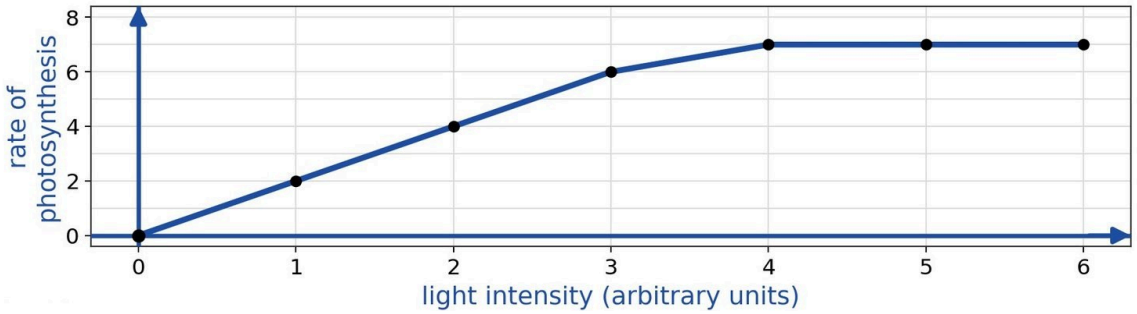
B 15%

C 20%

D 10%

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24 **The graph shows the rate of photosynthesis at different light intensities. At which light intensity does the rate first reach its maximum?**



A 6

B 3

C 4

D 2

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25

What does agar provide for bacteria in a culture?

A nutrients for growth

B light for photosynthesis

C oxygen for respiration only

D a source of water and nothing else

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ANSWER KEY

1.	A	**10.**	D	**19.**	B
2.	C	**11.**	B	**20.**	C
3.	C	**12.**	B	**21.**	B
4.	A	**13.**	D	**22.**	D
5.	B	**14.**	B	**23.**	D
6.	A	**15.**	B	**24.**	C
7.	A	**16.**	A	**25.**	A
8.	C	**17.**	B		
9.	B	**18.**	A		

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