

01	☐ A	☐ B	☐ C	☐ D	☒ E
02	☐ A	☐ B	☒ C	☐ D	☐ E
03	☐ A	☒ B	☐ C	☐ D	☐ E
04	☐ A	☐ B	☐ C	☒ D	☐ E
05	☐ A	☐ B	☐ C	☐ D	☒ E
06	☐ A	☐ B	☒ C	☐ D	☐ E
07	☐ A	☐ B	☒ C	☐ D	☐ E
08	☐ A	☐ B	☒ C	☐ D	☐ E
09	☐ A	☐ B	☐ C	☒ D	☐ E
10	☐ A	☐ B	☒ C	☐ D	☐ E
11	☒ A	☐ B	☐ C	☐ D	☐ E
12	☒ A	☐ B	☐ C	☐ D	☐ E
13	☐ A	☐ B	☐ C	☒ D	☐ E

14	☐ A	☐ B	☐ C	☒ D	☐ E
15	☐ A	☐ B	☐ C	☐ D	☒ E
16	☐ A	☐ B	☒ C	☐ D	☐ E
17	☒ A	☐ B	☐ C	☐ D	☐ E
18	☒ A	☐ B	☐ C	☐ D	☐ E
19	☐ A	☒ B	☐ C	☐ D	☐ E
20	☐ A	☒ B	☐ C	☐ D	☐ E
21	☐ A	☐ B	☒ C	☐ D	☐ E
22	☐ A	☒ B	☐ C	☐ D	☐ E
23	☐ A	☒ B	☐ C	☐ D	☐ E
24	☐ A	☐ B	☒ C	☐ D	☐ E
25	☒ A	☐ B	☐ C	☐ D	☐ E
26	☐ A	☐ B	☒ C	☐ D	☐ E

27	☐ A	☐ B	☒ C	☐ D	☐ E
28	☐ A	☐ B	☐ C	☐ D	☒ E
29	☒ A	☐ B	☐ C	☐ D	☐ E
30	☐ A	☐ B	☐ C	☐ D	☒ E
31	☐ A	☒ B	☐ C	☐ D	☐ E
32	☒ A	☐ B	☐ C	☐ D	☐ E
33	☐ A	☒ B	☐ C	☐ D	☐ E
34	☐ A	☐ B	☐ C	☐ D	☒ E
35	☐ A	☐ B	☒ C	☐ D	☐ E
36	☐ A	☒ B	☐ C	☐ D	☐ E
37	☐ A	☒ B	☐ C	☐ D	☐ E
38	☐ A	☐ B	☐ C	☒ D	☐ E
39	☐ A	☐ B	☐ C	☐ D	☒ E

PRACTICE QUESTIONS

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9 practice questions for ASSESSMENT TECHNOLOGIES INSTITUTE (TEAS) FMB969YL , each with its answer key and an explanation. Answer a question before you read its key — the explanation is worth more once you have committed.

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QUESTION 1

MULTIPLE CHOICE

A short passage states: 'Photosynthesis is the process by which green plants use sunlight to synthesize foods from carbon dioxide and water. Chlorophyll, the green pigment in plant leaves, absorbs light energy, which drives the reaction. In most plants, this process occurs in organelles called chloroplasts, which are concentrated in the mesophyll of leaves.' Which TWO of the following statements are directly supported by the passage? (Choose two.)

- ☒ **A** Chlorophyll absorbs the light energy used in photosynthesis.
- ☐ **B** Photosynthesis occurs only in leaves that contain chloroplasts.
- ☒ **C** Chloroplasts are concentrated in the mesophyll of leaves.
- ☐ **D** Plants release oxygen during photosynthesis, which supports animal respiration.

ANSWER A • C

WHY The passage explicitly states that chlorophyll absorbs light energy and that chloroplasts are concentrated in the mesophyll of leaves. Option B overstates the passage (chloroplasts are not exclusive to leaves, and the passage does not say photosynthesis occurs only in leaves). Option D introduces oxygen and respiration, which the passage does not mention.

QUESTION 2

MULTIPLE CHOICE

A reading passage describes a hormone as 'a chemical messenger that travels through the bloodstream to target tissues, where it elicits a specific physiological response.' A later sentence says the hormone 'binds to receptors on the target cells and amplifies the signal through a cascade of intracellular events.' In context, the word 'amplifies' most nearly means: (Choose two responses that are both correct interpretations in context.)

- ☒ **A** Increases the strength or magnitude of the signal
- ☐ **B** Removes the signal so the response stops
- ☒ **C** Magnifies or intensifies the intracellular response
- ☐ **D** Translates the chemical signal into a completely different kind of message

ANSWER A • C

WHY In the context of signal transduction, 'amplifies' means to increase the strength of a signal as it is passed along. Options A and C both capture this idea of strengthening or intensifying the response. Option B is the opposite of amplification. Option D describes transduction, not amplification.

QUESTION 3

SINGLE CHOICE

A nurse is preparing an IV solution by adding 250 mL of a medication concentrate to 1,000 mL of a base solution. What is the total volume of the resulting IV solution?

- ☐ **A** 750 mL
- ☐ **B** 1,000 mL
- ☒ **C** 1,250 mL
- ☐ **D** 1,500 mL

ANSWER C

WHY Adding 250 mL to 1,000 mL gives a total of 1,250 mL ($250 + 1,000 = 1,250$). Choice A subtracts instead of adding; choice B ignores the added concentrate; choice D would result from multiplying or adding an extra 250 mL.

QUESTION 4 SINGLE CHOICE

Solve for x : $3(x - 2) + 4 = 5x - 8$.

☐ A $x = 1$

☒ B $x = 3$

☐ C $x = 5$

☐ D $x = 9$

ANSWER B

WHY Distribute: $3x - 6 + 4 = 5x - 8 \rightarrow 3x - 2 = 5x - 8$. Subtract $3x$ from both sides: $-2 = 2x - 8$. Add 8: $6 = 2x$, so $x = 3$. Only $x = 3$ satisfies the original equation ($3(1) + 4 = 7$ and $5(3) - 8 = 7$).

QUESTION 5 SINGLE CHOICE

A patient's temperature is recorded as 102.2°F . What is this temperature in degrees Celsius, rounded to one decimal place? (Use $^{\circ}\text{C} = (^{\circ}\text{F} - 32) \times 5/9$.)

☐ A 38.0°C

☒ B 39.0°C

☐ C 39.8°C

☐ D 41.0°C

ANSWER B

WHY Subtract 32: $102.2 - 32 = 70.2$. Multiply by $5/9$: $70.2 \times 5/9 = 351/9 = 39.0^{\circ}\text{C}$. Choice C is a common error from using the wrong formula. Choice A corresponds to about 100.4°F , and Choice D is well above a realistic conversion.

QUESTION 6

SINGLE CHOICE

Which chamber of the heart pumps oxygen-rich blood into the systemic circulation (the aorta)?

- ☐ A Right atrium
- ☐ B Right ventricle
- ☐ C Left atrium
- ☒ D Left ventricle

ANSWER D

WHY The left ventricle pumps oxygenated blood through the aortic valve into the systemic circulation. The right atrium receives deoxygenated blood from the body, the right ventricle pumps it to the lungs, and the left atrium receives oxygenated blood from the lungs.

QUESTION 7

SINGLE CHOICE

Which organelle is the primary site of adenosine triphosphate (ATP) production in eukaryotic cells through aerobic respiration?

- ☐ A Ribosome
- ☐ B Golgi apparatus
- ☒ C Mitochondrion
- ☐ D Lysosome

ANSWER C

WHY Mitochondria are the primary site of ATP production via aerobic cellular respiration, specifically through the Krebs cycle and oxidative phosphorylation on the inner mitochondrial membrane. Ribosomes synthesize proteins; the Golgi apparatus modifies and packages proteins; lysosomes contain digestive enzymes for breaking down waste.

QUESTION 8

SINGLE CHOICE

Which subatomic particle has a positive electrical charge and is located in the nucleus of an atom?

- ☐ A Neutron
- ☐ B Electron
- ☒ C Proton
- ☐ D Photon

ANSWER C

WHY Protons are positively charged particles found in the nucleus. Neutrons have no charge and are also in the nucleus. Electrons are negatively charged and orbit the nucleus. Photons are units (packets) of light energy, not parts of an atom.

QUESTION 9

SINGLE CHOICE

An experiment measures the heart rates (beats per minute) of 5 resting adults: 62, 68, 70, 72, and 88. Which value is most likely an outlier that warrants rechecking before reporting the average?

- ☐ A 62 bpm
- ☐ B 68 bpm
- ☐ C 72 bpm
- ☒ D 88 bpm

ANSWER D

WHY Four of the values cluster between 62 and 72 bpm, while 88 bpm lies well above this cluster and is the most likely outlier. The mean of all five (72 bpm) is pulled upward by this single high value, so it should be rechecked before the average is reported.