Physics

1.	A car accelerates from rest to 30 m/s in 5 seconds. What is its acceleration?
	a. A) 6 m/s^2
	b. B) 150 m/s^2
	c. C) 0.167 m/s^2
	d. D) 15 m/s^2
2.	A ball is thrown vertically upward. At its highest point, its velocity is:
	a. A) 0 m/s
	b. B) 9.8 m/s
	c. C) -9.8 m/s
	d. D) 4.9 m/s
3.	A force of 10 N acts on a 2 kg object. What is the acceleration of the object?
	a. A) 5 m/s^2
	b. B) 20 m/s^2
	c. C) 10 m/s^2
	d. D) 0.2 m/s^2
4.	The magnitude of the resultant vector of the vectors $2i + 2j - k$ and $j + 7k$ is .
	a. A)0
	b. B)5
	c. C)7
	d. D)10
5.	If $g = 9.8$ m/sec2 at the surface of earth, the value of 'g' at a height equal to the
	radius of earth is .
	a. A)0
	b. B) 2.45
	c. C) 4.9
	d. D) 9.8
Mat	hematics
1.	If $x = 2$ and $y = 3$, what is the value of $2x + 3y$?
	o A) 13
	o B) 7
	。 C) 12
	o D) 9
2.	Simplify the expression: $3x + 4x - 2x$
	o A) 5x
	o B) 9x
	o C) 7x
	o D) 6x
3.	Solve the equation: $2x + 5 = 13$
	\circ A) $x = 4$
	$\circ \mathbf{B)} \ \mathbf{x} = 6$
	\circ C) $x = 8$

	o D) $x = 10$
4.	Find the slope of the line passing through the points $(2, 3)$ and $(5, 9)$.
	o A) 2
	o B) 3
	o C) 4
	o D) 5
5.	What is the value of 2 ³ ?
	o A) 6
	o B) 8
	o C) 9
	o D) 12
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Che	emistry
1	Which of the following is a compound?
1.	Which of the following is a compound? o A) Oxygen (O ₂)
	D) W (II O)
	D) C 11(4)
2	o D) Gold (Au) What is the pH of a neutral solution?
۷.	\circ A) 7
	∘ B) 14
	o C) 0
	D) 10
3	• D) 10 Which of the following is a covalent bond?
3.	 A) The bond between sodium and chlorine in sodium chloride (NaCl)
	 B) The bond between hydrogen and oxygen in water (H₂O)
	 b) The bond between hydrogen and oxygen in water (1120) C) The bond between magnesium and oxygen in magnesium oxide (MgO)
	 D) The bond between potassium and iodine in potassium iodide (KI)
4	What is the chemical formula of carbon dioxide?
٦.	• A) CO
	○ B) CO ₂
	o C) CO ₃
	○ D) C₂O
5	Which of the following is an organic compound?
٥.	A) Sodium chloride (NaCl)
	o B) Water (H ₂ O)
	o C) Methane (CH ₄)
	o D) Carbon dioxide (CO ₂)
Eng	lish
1.	Identify the part of speech of the underlined word: "The dog barked loudly."
	a. A) Noun
	b. B) Verb
	•

- c. C) Adjective
- d. D) Adverb
- 2. Choose the correct synonym for the word "abundant":
 - a. A) Scarce
 - b. B) Plentiful
 - c. C) Limited
 - d. D) Insufficient
- 3. Choose the best option to complete the sentence. Bilal graduates from this University, he wants to go abroad for higher studies.
 - a. By the time
 - b. After
 - c. Before
 - d. Until
- 4. Which sentence is grammatically correct?
 - a. A) I am going to the store.
 - b. B) Me and him are going to the store.
 - c. C) He and I are going to the store.
 - d. D) I and him are going to the store.
- 5. Identify the type of sentence: "Can you please pass me the salt?"
 - a. A) Declarative
 - b. B) Interrogative
 - c. C) Imperative
 - d. D) Exclamatory

Biology

- 1. Which of the following is a characteristic of living organisms?
 - a) Photosynthesis
 - b) Cellular organization
 - c) Sensitivity to light only
 - d) Respiration in plants only

Answer: b) Cellular organization

- 2. Which organelle is known as the "powerhouse of the cell"?
 - a) Nucleus
 - b) Mitochondria
 - c) Ribosome
 - d) Golgi apparatus

Answer: b) Mitochondria

3. What is the primary function of the xylem in plants?

- a) Transport of water and minerals
- b) Transport of food and nutrients
- c) Photosynthesis
- d) Protection against pathogens

Answer: a) Transport of water and minerals

4. Which of the following is the monomer of proteins?

- a) Nucleotide
- b) Fatty acid
- c) Amino acid
- d) Glucose

Answer: c) Amino acid

5. The process by which a cell divides into two identical daughter cells is called:

- a) Meiosis
- b) Mitosis
- c) Binary fission
- d) Splicing

Answer: b) Mitosis

6. Which blood component is responsible for transporting oxygen?

- a) White blood cells
- b) Platelets
- c) Hemoglobin in red blood cells
- d) Plasma

Answer: c) Hemoglobin in red blood cells

7. Which of the following is a type of RNA involved in protein synthesis?

• a) mRNA

- b) tRNA
- c) rRNA
- d) All of the above

Answer: d) All of the above

- 8. In which part of the human body does digestion of proteins begin?
 - a) Mouth
 - b) Stomach
 - c) Small intestine
 - d) Large intestine

Answer: b) Stomach

- 9. Which of the following processes results in genetic variation in populations?
 - a) Asexual reproduction
 - b) Binary fission
 - c) Sexual reproduction
 - d) Cloning

Answer: c) Sexual reproduction

- 10. Which part of the plant cell provides structural support and protection?
 - a) Chloroplast
 - b) Cell wall
 - c) Plasma membrane
 - d) Vacuole

Answer: b) Cell wall

General Computer

- 1. Which of the following is the brain of the computer?
 - a) Monitor
 - b) Central Processing Unit (CPU)

- c) Random Access Memory (RAM)
- d) Hard Disk

Answer: b) Central Processing Unit (CPU)

- 2. Which part of the computer is used to permanently store data?
 - a) ROM
 - b) RAM
 - c) Hard Disk
 - d) Cache Memory

Answer: c) Hard Disk

- 3. Which of the following is a secondary storage device?
 - a) RAM
 - b) ROM
 - c) Hard Drive
 - d) CPU

Answer: c) Hard Drive

- 4. Which type of software controls the overall operations of a computer?
 - a) Application software
 - b) Operating system
 - c) Utility software
 - d) Compiler

Answer: b) Operating system

- 5. Which of the following is a programming language?
 - a) HTML
 - b) Microsoft Word
 - c) Python
 - d) SQL Server

Answer: c) Python

6. What does GUI stand for in computer terminology?

- a) Graphical User Interface
- b) General Utility Interface
- c) Global User Internet
- d) General Unified Interface

Answer: a) Graphical User Interface

- 7. In which of the following storage units, data is lost when the computer is turned off?
 - a) Hard Disk
 - b) RAM
 - c) ROM
 - d) CD-ROM

Answer: b) RAM

- 8. Which device is used to convert analog signals to digital signals in a computer?
 - a) Printer
 - b) Scanner
 - c) Modem
 - d) Plotter

Answer: c) Modem

- 9. Which key is used to refresh a webpage in a web browser?
 - a) F1
 - b) F2
 - c) F5
 - d) F10

Answer: c) F5

10. Which of the following is an example of system software?

- a) Google Chrome
- b) Microsoft Excel
- c) Windows Operating System
- d) Adobe Photoshop

Answer: c) Windows Operating System