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Subject Code: STEM07	**Subject Title:** General Physics 2
Module No: 03	**Topic:** Electric Potential

II. LET'S BEGIN- Quick Check! Direction

Let us check what you have learned about electric fields and charges in the previous lesson.
Write T if the statement is correct; otherwise write F in the space provided.

T 1. Electromagnetic force is associated with a fundamental property of matter - electric charge
T 2. The SI unit of electric charge is the coulomb, symbol C.
T 3. Electrostatic effects occur when electrical charges are separated.
T 4. All charge separation involves the expenditure of energy.
T 5. The magnitude of the electrostatic force between charges increases as their separation decreases.

IV. WE'RE ON OUR WAY

Directions: Write the letter of your choice in the space provided.

C 1. What will be the electric potential at the center of the square?

a. zero b. $4k\frac{q}{r}$ c. $8\sqrt{2k}\frac{q}{r}$ d. $4\sqrt{2k}\frac{q}{r}$

A 2. What will be the electric potential at the center of the square if two charges at the top are replaced with negative charges?

a. zero b. $4k\frac{q}{r}$ c. $8\sqrt{2k}\frac{q}{r}$ d. $4\sqrt{2k}\frac{q}{r}$

B 3. If the distance between two charges is quadrupled, how would the electric potential energy change?

a. doubled b. halved c. quadrupled d. quartered

C 4. What is the direction of the electric field at point B?

a. upward c. right b. downward d. left

B 5. What is the direction of the electric field at point A?

a. upward b. downward c. right d. left

A 6. Suppose a positive charge was moved from points A to B. What is work done along the path?

a. increasing c. zero b. decreasing information d. incomplete

B 7. Suppose a negative charge was moved from points A to B. What is work done along the path?

a. increasing c. zero b. decreasing information d. incomplete

A 8. At which point is the electric field does zero work on a test charge?

a. A and D c. B and C b. A and B d. D and C

A 9. At which point has higher potential?

a. A b. C c. D d. B

C 10. At which point is the electric field strongest?

a. A b. C c. D d. B