

- 28** Coherent light passes through a double slit, producing bright and dark fringes on a screen placed parallel to the plane of the double slit. The intensity of the light from each of the slits is initially the same.

The intensity of the light passing through one of the slits in the double slit is now increased. The frequency of the light remains constant.

What is the effect on the appearance of the fringes on the screen?

| | separation of fringes | maximum intensity of dark fringes |
|----------|--------------------------|--------------------------------------|
| A | decreases | no change |
| B | increases | greater |
| C | no change | greater |
| D | no change | no change |

- 29** Which diagram shows the pattern of the electric field between a positively charged metal sphere