

- 19** Monochromatic light is incident normally on a diffraction grating and first order diffraction is observed at an angle of 28.6° .

Which of the following statements is true?

- A** The second order image is observed at an angle of 57.2° and there are only 6 intensity maxima formed.
- B** The second order image is observed at an angle of 57.2° and there are only 7 intensity maxima formed.
- C** The second order image is observed at an angle of 73.2° and there are only 4 intensity maxima formed.
- D** The second order image is observed at an angle of 73.2° and there are only 5 intensity maxima formed.

- 20** The diagram shows two unequally charged spheres X and Y of masses $2m$ and m