

- 27** An alternating potential difference, with peak value V and frequency f , is applied across a light bulb of resistance R . The bulb lights up.

Which of the following changes would result in the maximum increase in the brightness of the bulb?

| | V | f | R |
|----------|---------|----------------------|---------|
| A | doubles | doubles | halves |
| B | halves | doubles | doubles |
| C | doubles | increases by 4 times | doubles |
| D | halves | increases by 8 times | halves |