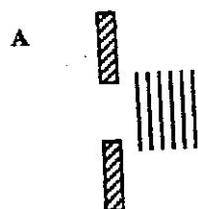


### Weakness

Many candidates did not understand the concept being tested and so they failed to make the comparison between the two cases. Teachers should emphasise on the relation between the wavelength and the aperture size – a condition for diffraction to take place.

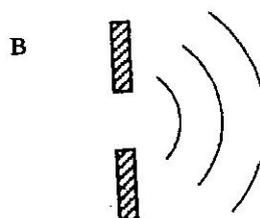
### Expected Response

A



Little diffraction

B



Pronounced diffraction

Both diagrams must be correct for:

### Question 31

A vertical object is placed at the focal point **F** of a diverging lens as shown in Figure 16.

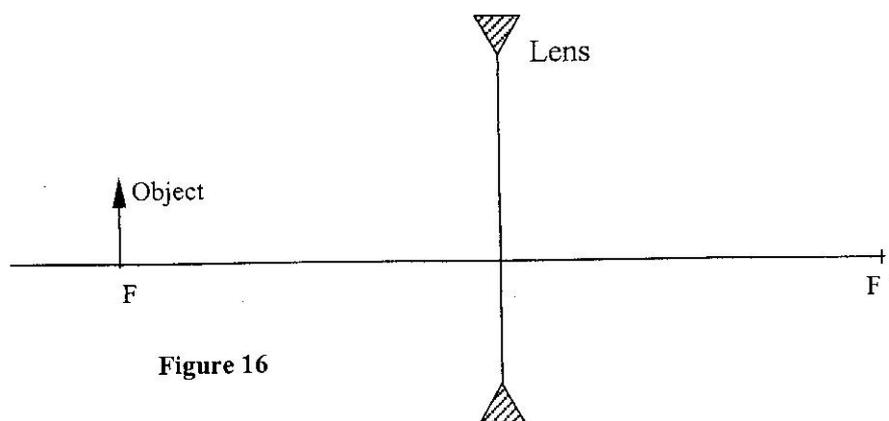


Figure 16

Sketch a ray diagram to show the image of the object. (3 marks)

Candidates were expected to draw two rays from the object passing through the diverging lens and show the position of the image formed. It was expected candidates know the nature of the image expected – virtual.