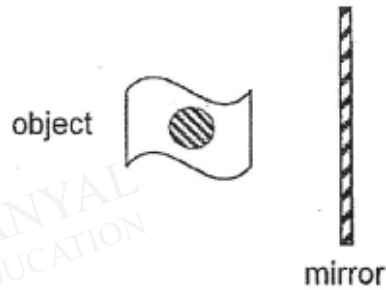


O Level Combined Physics MCQs

Light Test 1.0

Q1

An object is placed in front of a plane mirror as shown below.

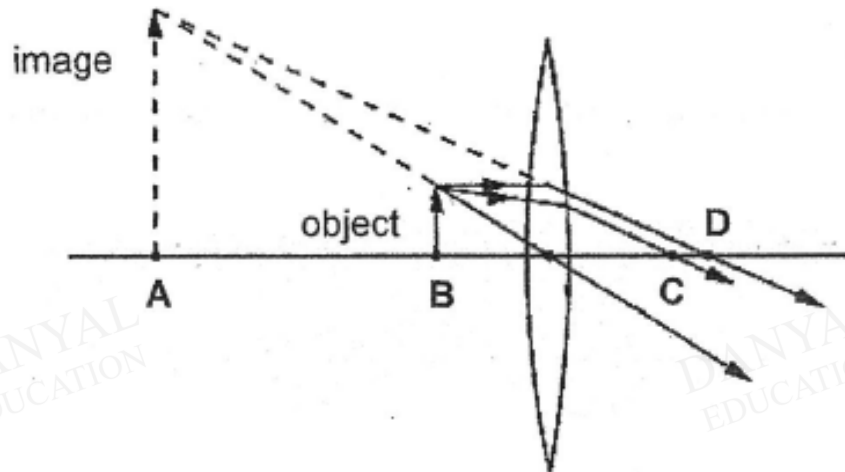


Which diagram shows the correct mirror image of the object?



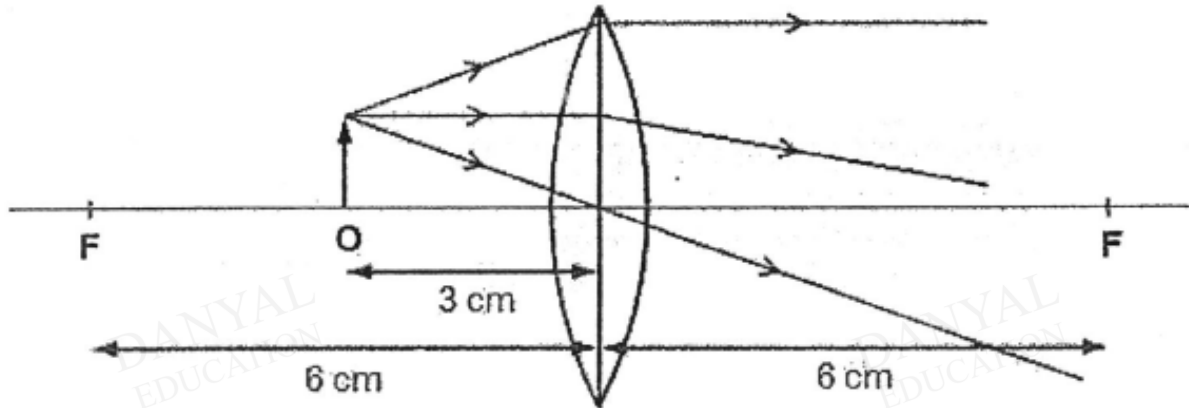
Q2

In the diagram below, which point is the focal point of the lens?



Q3

The figure shows an object **O** placed 3 cm away from a converging lens that has a focal length of 6 cm.



What type of image is produced?

- (A) real, upright and diminished
- (B) real, inverted and magnified
- (C) virtual, upright and magnified
- (D) virtual, inverted and diminished

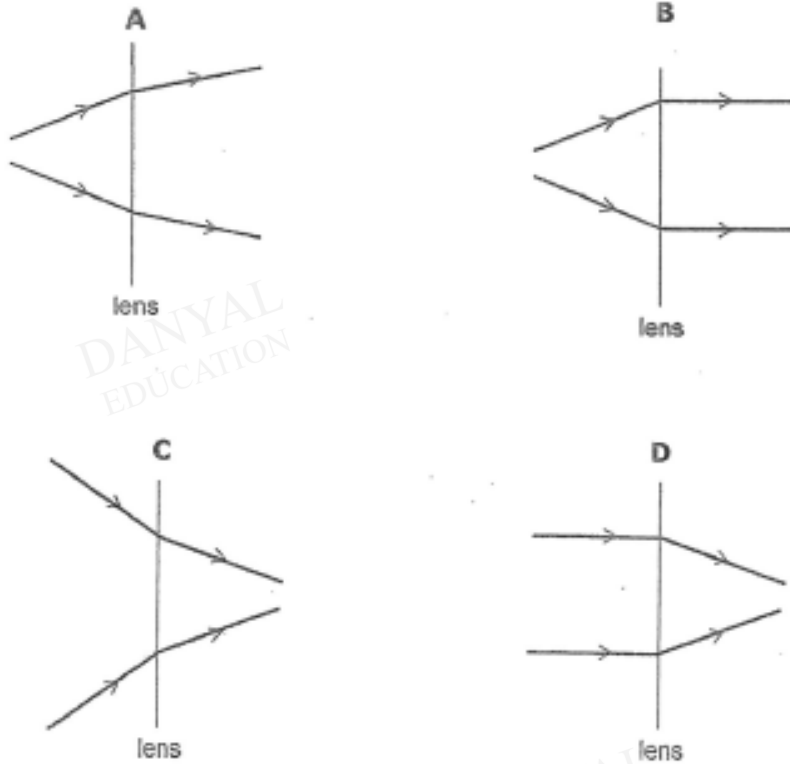
Q4

A man moves away from a plane mirror with a constant velocity of 20 cm/s. The distance between the man and his image in the mirror

- A decreases at 20 cm/s.
- B decreases at 40 cm/s.
- C increases at 20 cm/s.
- D increases at 40 cm/s.

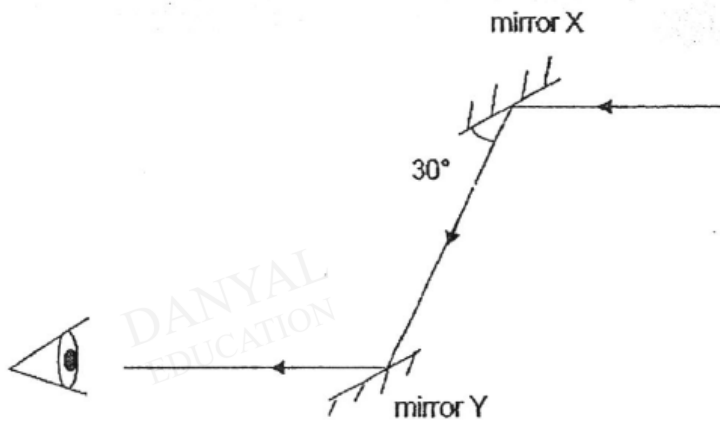
Q5

Which diagram shows a ray of light passing through a diverging lens?



Q6

A ray of light is reflected by two parallel plane mirrors X and Y.

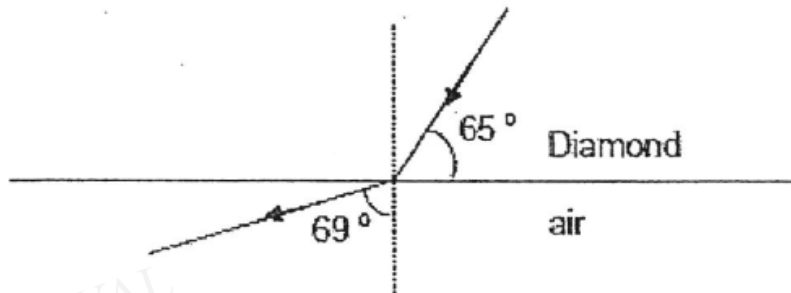


Which of the following statements is correct?

- A The angle of incidence at mirror Y is 60° .
- B The angle of incidence at mirror X is 30° .
- C The angle of reflection at mirror Y is 0° .
- D The angle of reflection at mirror X is 120° .

Q7

The figure shows a ray of light moving from diamond to air.

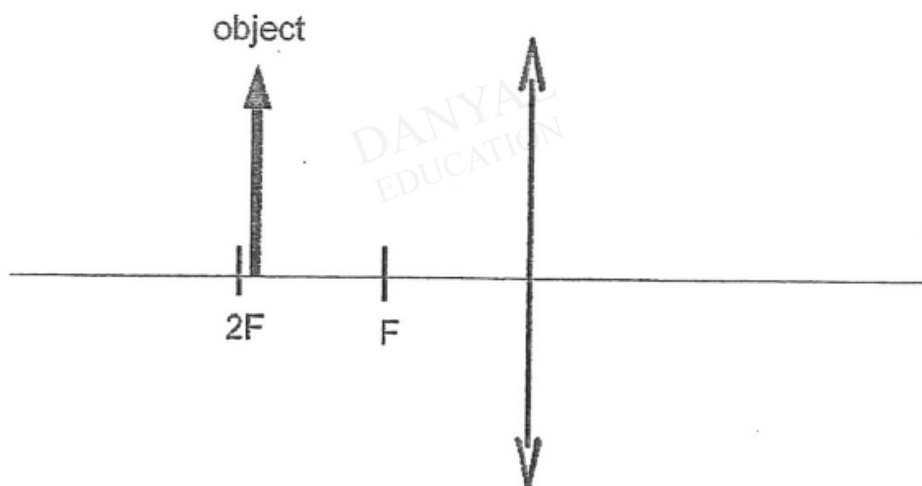


What is the critical angle of diamond?

- A 21° B 27° C 63° D 76°

Q8

The object shown in the diagram below is moved away from the lens.

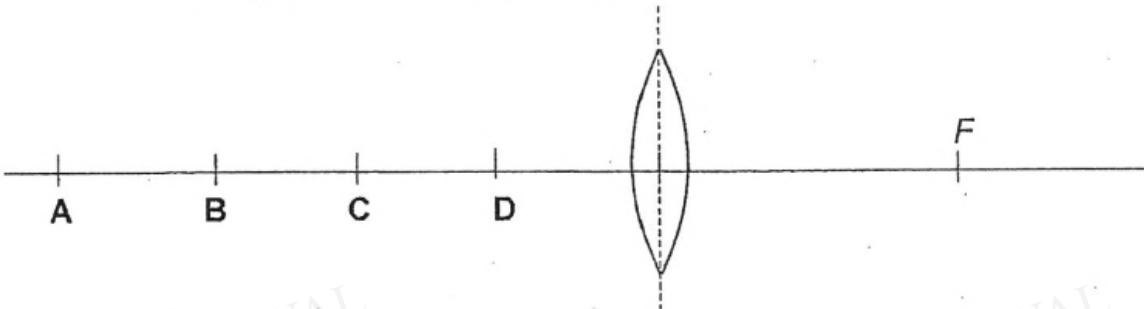


What happens to the image formed?

- A It becomes larger. B It becomes smaller.
C It becomes real. D It becomes virtual.

Q9

The diagram below shows four possible positions, **A**, **B**, **C** and **D** of an object in front of a converging lens with a principal focus at **F**.



In which of the positions **A**, **B**, **C** or **D** would you place an object to use the lens as a magnifying lens?

Q10

Which of the following correctly compares an image formed by a mirror and an image formed by a magnifying glass?

	image formed by a mirror	image formed by a magnifying glass
A	real	virtual
B	same size as object	bigger than object
C	laterally inverted	inverted
D	cannot be formed on a screen	can be formed on a screen

Answers

Light Test 1.0

Q1 A

Q2 D

Q3 C

Q4 D

Q5 C

Q6 A

Q7 B

Q8 B

Q9 D

Q10 B

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