

PART A: MULTIPLE CHOICE (10 MARKS)

1	2	3	4	5	6	7	8	9	10
b	c	c	c	a	b	b	d	b	a

PART B: MATCH (5 MARKS)

1	2	3	4	5
X	X	X	X	X

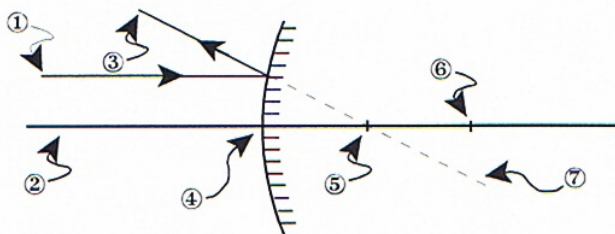
PART C: SHORT ANSWER (25 MARKS)

Answer the following questions in the space provided.

- {7} 1. (a) Match the labels below to the correct item in the diagram and then place the # in the space provided.
 (b) Number and name the remaining items.

- (a) 1 incident ray 6 centre of curvature
4 vertex 3 reflected ray

- (b) 2 principal axis
5 principal focus
7 virtual ray



- {2} 2. List two applications of mirrors: 1 security
2 makeup mirror

- {16} 3. Using ray diagrams (a) locate the images formed by the curved mirrors and (b) the type of image formed.

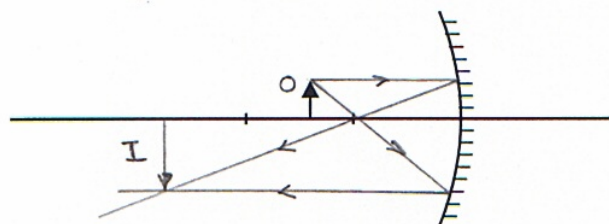


IMAGE: real

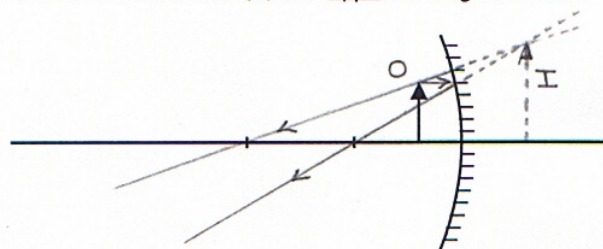


IMAGE: virtual

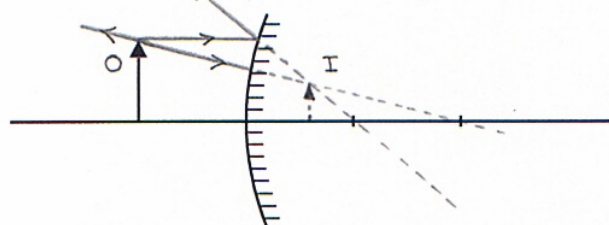


IMAGE: virtual

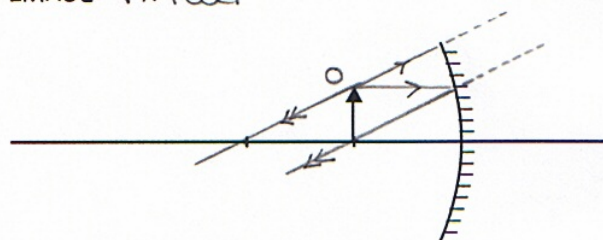


IMAGE: no image

PART D: PROBLEMS (10 MARKS)

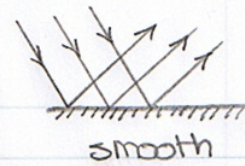
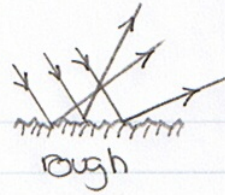
Answer the following questions on a separate sheet of paper. You may use the back of this sheet if you wish.

- {3} 1. You have been asked to design the interior of a new speedboat. Do you think you should choose a smooth or rough surface for the dashboard? Why?
 {5} 2. Draw a view from above of an arrangement of mirrors that would allow you to see the back of your head. Mark the angles of incidence and reflection on your diagram.
 {2} 3. What would happen to the size of the image formed by a diverging mirror as the object moves closer to the mirror?

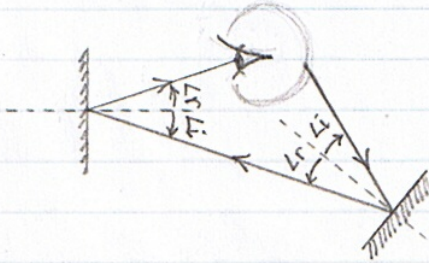
Physics - Part D

Q12 #2

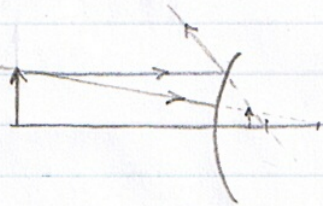
- 1) - rough surface
- irregular reflection
- no glare



2)



3)



so as object moves closer to the mirror the image gets larger

