
GOLDEN SAMPLE QUESTIONS

PHYSICS For CBSE X 2019 (Set 1)

(Q1) One Mark

1. When is the force experienced by a current-carrying conductor placed in a magnetic field largest?

(Q2) Two Marks

2. A circuit has a fuse of 5 A. What is the maximum number of 100 W (220 V) bulbs that can be safely used in the circuit?

(Q3 & 4) Three Marks

- 3.
- (a) What are the advantages and disadvantages of nuclear energy?
 - (b) What are the limitations of extracting energy from :
 - (i) The wind
 - (ii) Waves?
4. The image of an object formed by a lens is of magnification – 1 if the distance between the object and its image is 60 cm, what is the focal length of the lens? If the object is moved 20 cm towards the lens, where would the image be formed? State reason and also draw a ray diagram in support of your answer.

(Q5) Five Marks

- 5.
- (a) What is a rainbow? What are the two conditions necessary for the formation of a rainbow in the sky?
 - (b) What acts as tiny prisms in the formation of a rainbow?
 - (c) Name the process which is involved in the formation of a rainbow.
 - (d) What are the seven colours seen in a rainbow?



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