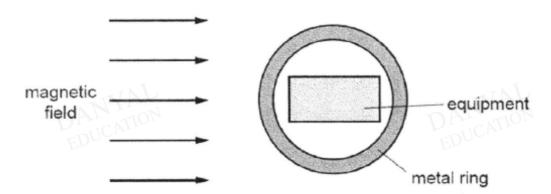
O Level Pure Physics MCQs

Magnetism Test 1.0

Q1

A metal ring screens a piece of equipment from a magnetic field.



Which metal should be used for the ring, and why?

	metal	explanation	
Α	copper	the metal carries the field lines around the equipment	
В	copper	the metal is non-magnetic	
С	iron	the metal carries the field lines around the equipment	
D	iron	the metal is non-magnetic	

Q2

Fig. 35.1 shows a small compass placed between two bar magnets with the ends X and Y nearest to the compass.

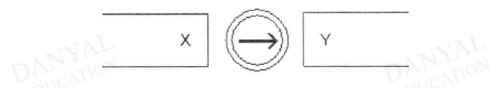
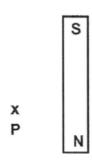


Fig. 35.1

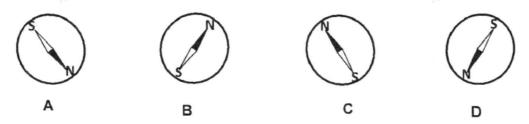
What are the polarities of ends X and Y?

	Χ	Υ	
Α	North pole	South Pole	
В	South Pole	North pole	
С	South Pole	South Pole	
D	North pole	North pole	

The diagram below shows a bar magnet.

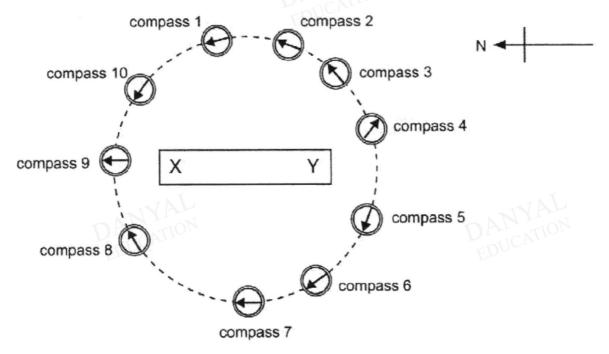


Which of the following best represents the orientation of the compass at **P** if the magnetic field of the Earth is neglected?



Q4

The figure shows the top view of a permanent magnet with ten compasses arranged on a dotted circle around it. The poles of the magnet are unknown and are labelled as X and Y.



Which one of the following statements is correct?

- A Compass 1 is faulty
- B Compass 9 is faulty
- C Compass 5 is faulty
- D Pole X is the north-pole and pole Y is the south-pole

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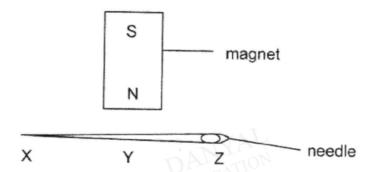
Q5

Which of the following is a possible test to check if an unknown substance A is magnetised?

- Repulsion between substance A and another magnet
- II Attraction between substance A and a non-magnet
- III Attraction between substance A and another magnet.
- A I only B III only C I and II D All of the above

Q6

The diagram shows a magnet being used to pick up a steel needle. The north pole of this magnet is to the centre Y of the needle.

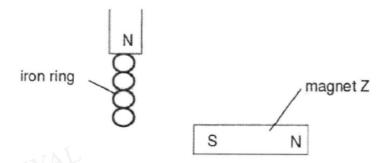


What are the poles induced in the needle at X, Y, and Z?

	pole induced at X	pole induced at Y	pole induced at Z
Α	S	N	S
В	S	S	S
С	N	N	N
D	N	S	N

Q7

The diagram shows a strong magnet with four small iron rings attracted to it.



A weak magnet, Z, is brought near to the end of the lowest ring.

What will happen to the chain of iron rings?

- A It will bend away from Z.
- B It will bend towards Z.
- C It will fall to the ground.
- D It will remain still.

Q8

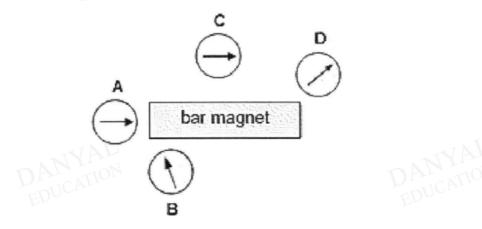
A student makes three statements on magnetism.

- (i) A freely suspended magnet always points in a North-South direction.
- (ii) A compass is a temporary magnet.
- (iii) Electrical method of magnetisation will always produce permanent magnets

Which statement(s) is/are correct?

- A (i) only
- B (i) and (iii) only
- C (ii) only
- D (i), (ii) and (iii)

Four magnetic compasses are placed near a bar magnet as shown in the figure below. Which compass is faulty?



Q10

A metal bar PQ hangs from a thin thread and always comes to rest with end P pointing north.

Another bar XY of the same metal settles in no definite direction.

What happens if the two bars are brought near one another?

- A End P and end Q both attract end X.
- B End P attracts end X but repels end Y.
- C End P neither attracts nor repels end X.
- D End P repels end X but attracts end Y.





Answers

Magnetism Test 1.0

Q1 C

Q2 A

Q3 C

Q4B

Q5 C

Q6 D

Q7 B

Q8 A

Q9 C

Q10 A

DANYAL

DANYAL

DANYAL

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