**MIDWAY BOYS HIGH SCHOOL**

**TERM II OPENER EXAMS 2018**

**FORM TWO PHYSICS**

* *Answer* ***all*** *questions in the spaces provided.*
* *All formulae, working and SI units* ***must*** *be clearly shown.*

1. State the meaning of the following terms:
2. Magnetic screening (1mk)

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1. Magnetic permeability (1mk)

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1. Magnetic domains (1mk)

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1. Magnetic dipoles (1mk)

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1. Magnetic saturation (1mk)

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1. State ***three*** properties of magnetic field lines. (3mks)

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1. Explain the following using the domain theory of magnetism:
2. How magnetization is achieved by hammering a steel bar when in the north-south direction. (2mks)

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1. Why when a bar magnet is broken into pieces, the pieces retain their magnetism. (2mks)

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1. Give reasons for the following:
2. Repulsion is considered the only sure test for polarities. (2mks)

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1. Magnetization by induction is temporary. (2mks)

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1. Name the type of electric current used in:
2. Magnetization process. (1mk)

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1. Demagnetization process. (1mk)

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1. State the main limitation of single stroke method of magnetization.

How can the limitation be overcome? (2mks)

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1. Distinguish magnetic from non-magnetic materials. (2mks)

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1. What is the difference between hard magnetic materials and soft magnetic materials? Which is suitable for use in electric bells and for making permanent magnets? (4mks)

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1. Identify any ***two*** applications of magnets in medicine. (2mks)

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1. Briefly describe the recommended procedure of storing magnets. (2mks)

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