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| **ENGINEERING OF PHYSICS****MECHANICAL PHYSICS LABORATORY II** |

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| **EXPERIMENT NAME:** MAGNETIC FIELD-ELECTROMAGNETIC INDUCTION-PRINCIPLES OF GENERATORS AND MOTORS**EXPERIMENT NO:** 6-7-8**STUDENT NAME SURNAME:****STUDENT NUMBER:****DEPARTMENT&EDUCATION TYPE:** |

**EXP6: MAGNETİC FIELD**

* Draw the magnetic field lines of the bar and U magnets





**EXP7: ELECTROMAGNETIC INDUCTION**

* Illustrate the direction of the current into the galvanometer.

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**EXP8: PRINCIPLES OF GENERATORS AND MOTORS**

Answer the questions.

1. Formed when a wire in an electric circuit is wrapped around an iron core producing a magnetic field
2. Electromagnet
3. Generator
4. Motor
5. Bar Magnet
6. Produces an electric current when a coil of wire wrapped around an iron core is rotated near a magnet
7. Car
8. Generator
9. Motor
10. Magnet
11. Changes electrical energy to mechanical energy.
12. Magnet
13. Simple Electric Motor
14. Generator
15. Car
16. In a simple electric motor, like poles of the magnets repel and unlike poles of the magnets attract. This causes the coil to rotate and thus changes electrical energy to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_energy
17. Chemical
18. Mechanical
19. Sound
20. Light
21. Surrounding a magnet is a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ that applies a force, a push or pull, without actually touching an object.
22. Coil
23. Magnetic Field
24. Car
25. Circuit