

**2025 SHS2 END OF SEMESTER EXAM APPLIED ELECTRICITY 1 SOLUTION
OBJECTIVES**

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|--------------------------------------------------------------|--------------------------------------------------------------------------|
| 1. A. two or more cells connected together | 26. B. conduit |
| 2. D. multiplier | 27. C. Bunched |
| 3. D. electrical energy | 28. D. discrimination |
| 4. C. $3.184 \times 10^3 \Omega$ | 29. C. Polarisation |
| 5. C. 311.1V | 30. B. a galvanometer |
| 6. A. magnetic effect | 31. C. 10A |
| 7. B. diode | 32. C. copper loss is reduced |
| 8. C. silicon | 33. B. To protect against electrical overloads and short circuits |
| 9. B. four | 34. D. the collector at a lower potential than the emitter |
| 10. C. are minority charge carriers | 35. D. AND gate |
| 11. D. inductor | 36. A. A+B |
| 12. D. provide a steady output | 37. B. (A+B)(A+C) |
| 13. C. low resistance in parallel with the instrument | 38. D. FET |
| 14. A. transformer | 39. D. Turbine |
| 15. C. keep the load current constant | 40. B. Penstocks |
| 16. A. rectifier | 41. A. Wind |
| 17. C. 20V | 42. B. Reactor |
| 18. A. one coil | 43. C. Source, drain and gate |
| 19. C. 125.6Ω | 44. C. Junction field effect transistor |
| 20. A. hydro-power station | 45. C. Source |
| 21. A. zero | 46. C. Both electrons and holes |
| 22. B. Electric shock | 47. C. Red, red, brown |
| 23. B. Silicon | 48. D. 20% |
| 24. A. PVC conduit | 49. C. It has no moving parts |
| 25. B. Mechanical energy to electrical energy | 50. C. Rectification |