

S1. PHYSICS ONE

MIDTERM ONE 2019

TIME: 1HR: 30MINS

INSTRUCTIONS

Attempt all questions

1. What is Physics?
2. Why do we study physics?
3. List five branches of physics.
4. Give five basic physics laboratory rules and regulations.
5. List seven basic quantities with their units and symbols.
6. Give any five derived quantities with their units and symbols.
7. Give the difference between fundamental quantities and derived quantities.
8. Give examples of derived and fundamental quantities.
9. What are scalar quantities and give three examples.
10. What are vector quantities and give four examples.
11. Mention any instruments used for measuring length.
12. State the use of a vernier caliper.
13. Draw and name the structure of a vernier caliper.
14. State the reading of the vernier caliper below.

a)

C)

b)

D)

15. State the of a micrometer screw gauge.
16. Draw and name the structure of a vernier caliper.
17. Give the difference between a vernier caliper and a micrometer screw gauge.
18. State the reading of the micrometer screw gauge below.

a)

C)

b)

D)

19. The width of a meter rule is accurately measured by
 - a) Meter rule
 - b) Vernier caliper
 - c) Tape measure
 - d) Micrometer screw gauge

20. Convert the following.
 - a) 200cm to mm
 - b) 100m to km
 - c) 25cm^2 to km^2
 - d) 1000cm^3 to m^3