

# Sardar Vallabhbhai National Institute of Technology, Surat

B

Subject: Thermodynamics-I (Practical Quiz)

Max. Marks: 20

Roll No:

Batch:

Date: 21/04/2011

## Instructions:

Attempt only 20 Questions (Time Limit: 1 Hour)

Any mischief behavior will lead to negative marking, strictly.

1. \_\_\_\_\_viscosity index signifies relatively small changes of viscosity with temperature. (High, Low)
2. Relation between kinematic and dynamic viscosity:\_\_\_\_\_
3. Unit of viscosity measured by Redwood viscometer:\_\_\_\_\_
4. \_\_\_\_\_is the lowest temperature at which there will be enough flammable vapour to ignite when an ignition source is applied.
5. Flash point of given sample for closed cup tester is \_\_\_\_\_than that of open cup tester (higher, lower, equal)
6. What was the measured flash point and fire point of given sample of Oil during open cup laboratory testing? Ans: Flash Point \_\_\_\_\_°C& Fire Point \_\_\_\_\_°C
7. \_\_\_\_\_is a unit equal to one gram per centimeter per second and \_\_\_\_\_is one square centimeter per second.
8. Measured flash point of given sample of diesel during open cup test was \_\_\_\_\_°C and during closed cup \_\_\_\_\_°C
9. During test condition \_\_\_\_\_,it is required to correct the measured flash point and fire point of a given sample. (at atmospheric, less than atmospheric, higher than atmospheric)
10. Flash point measured by\_\_\_\_\_ conditions gives true value(closed, open)
11. Grease Penetrometer is used to determine \_\_\_\_\_as a measure of the consistency of grease.
12. Higher C.V = Lower C.V + \_\_\_\_\_
13. Calorific value of liquid/solids and gas is measure by apparatus called \_\_\_\_\_and \_\_\_\_\_respectively.

# Sardar Vallabhbhai National Institute of Technology, Surat

B

Subject: Thermodynamics-I (Practical Quiz)

Max. Marks: 20

Roll No:

Batch:

Date: 21/04/2011

14. Formula for determining kinematic viscosity by Redwood viscometer \_\_\_\_\_
15. Viscosity of liquid \_\_\_\_\_ and for gas \_\_\_\_\_ as temperature decreases (decreases, increases, remain unaffected)
16. Viscosity measured by Redwood viscometer is \_\_\_\_\_ viscosity (kinematic, dynamic)
17. Viscosity of fluid up to 2000 Redwood seconds can be measured by Redwood viscometer no. \_\_\_\_\_
18. Material of cup used in open cup/closed cup test is \_\_\_\_\_
19. Thermocouple works on principle of \_\_\_\_\_
20. Thermocouple measures temperature in terms of \_\_\_\_\_
21. Name of open cup tester and closed cup tester for measuring flash point and fire point are \_\_\_\_\_ and \_\_\_\_\_ respectively.
22. \_\_\_\_\_ is a number indicating the effect of change of temperature on the viscosity of oil.
23. Redwood viscometer no.2 measures viscosity in Redwood seconds range beyond \_\_\_\_\_