

Code No: 56044

Set No. 1

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

III B.Tech. II Sem., II Mid-Term Examinations, April - 2014

INSTRUMENTATION PRACTICES IN INDUSTRIES

Objective Exam

Name: \_\_\_\_\_ Hall Ticket No. 

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Answer All Questions. All Questions Carry Equal Marks. Time: 20 Min. Marks: 10.

**I Choose the correct alternative:**

1. The most frequently used measured variable in power plants are ----- [    ]  
a) Pressure                      b) Temperature                      c) Flow                      d) All of the above
2. Vibration measurement is measured by using ----- [    ]  
a) RTD                      b) Accelerometer                      c) Thermostat                      d) None of the above
3. Coal produces steam in boiler and this steam at ----- temperature and pressure is used to run a turbine generator [    ]  
a) Constant                      b) Low                      c) High                      d) None of the above
4. Aneroid barometer basically consists of ----- [    ]  
a) Pressure sensing elements                      b) A system of gears  
c) A system of levers                      d) All the above
5. A pitot static system is used for the measurement of aircraft ----- [    ]  
a) Speed                      b) Vibration                      c) Temperature                      d) All the above
6. Selective radiation pyrometers are used to measure either ----- range [    ]  
a) Optical                      b) Infrared                      c) Both a& b                      d) None of the above
7. Engine speed cannot be measured by ----- [    ]  
a) AC tachometer                      b) DC tachometer                      c) Both a& b                      d) None of the above
8. Whenever a potential difference is applied across two conducting surfaces separated by a non conducting medium called a dielectric and having the property of storing an electric charge is known as ----- [    ]  
a) Capacitance                      b) Resistance                      c) Inductance                      d) None of the above
9. Interlocking is one which prevents a machine from ----- [    ]  
a) RAT                      b) SAT                      c) Harming                      d) None of the above
10. Boilers should always be brought on line slowly and ----- water should never be added into hot system [    ]  
a) Cold                      b) Hot                      c) Both a& b                      d) None of the above

**Cont....2**

**II Fill in the blanks**

- 11. Cooling towers are classified as ----- draft and ----- draft.
- 12. The primary task of cooling towers is to reject ----- into the atmosphere.
- 13. The variables that are to be measured and monitored continuously in a plant safety are -----
- 14. A ----- is an instrument, which has a magnet sensing element and heating indicator all in the instrument.
- 15. A gyroscope has three degrees of freedom and they are -----, ----- and -----.
- 16. Tachometer is used for ----- speed measurement.
- 17. In Flight Instrumentation, SAT stands for -----
- 18. A ----- manometer indicates the pressure relative to the atmosphere.
- 19. An ----- can be defined as a device that prevents you from making inappropriate adjustments.
- 20. Safety interlock is a method of preventing includes ----- machines.

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