

## 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. Which type of device is suitable for dynamic force measurement [      ]  
(A) lever balance (B) spring balance (C) proving ring (D) piezo electric transducer
2. In case of strain gauge transducers, several strain cycles, and temperature cycles are carried out before making measurements, in order to [      ]  
(A) Increase life (B) enable high repeatable readings  
(C) eliminate pressure failures (D) avoid drift
3. Laser dropper anemometer is used to measure [      ]  
(A) pressure (B) velocity (C) level (D) density
4. Dynamometers are \_\_\_\_\_ measuring devices [      ]  
(A) Force (B) torque (C) power (D) displacement
5. In some measurements, in order to increase the sensitivity, two measuring and two reference cells are often used. This arrangement is referred to as [      ]  
(A) wheatstone bridge (B) katharometer (C) attenuator (D) amplifier
6. Sling psychomotor is used to measure [      ]  
(A) Humidity (B) velocity (C) level (D) density
7. Proving rings are used to measure [      ]  
(A) Displacement (B) force (C) velocity (D) acceleration
8. The change in length of humidity sensitive elements is measured by [      ]  
(A) hydrometer (B) hygrometer (C) psychrometer (D) photometer
9. Mass spring seismic sensors measure directly the [      ]  
(A) displacement (B) velocity (C) acceleration (D) shock
10. when an automatic control system is \_\_\_\_\_ the output variable overshoots its desired steady state condition and a transient oscillation occurs [      ]  
(A) under damped (B) over damped (C) critically damped (D) without damping

**Cont.....2**

**II Fill in the blanks**

11. Torsion meters are used to measure \_\_\_\_\_.
12. Vibrometer is used to measure \_\_\_\_\_.
13. The overshoot and the settling time are maximum with \_\_\_\_\_ damped system.
14. The transient performance characteristics of the control are conveniently obtained from the curve of the \_\_\_\_\_ response function.
15. The frequency response can be obtained analytically from \_\_\_\_\_.
16. Mechanical Tachometer is used to measure \_\_\_\_\_.
17. The use of a dummy strain gauge in a Wheatsone bridge circuit helps to eliminate errors due to variation in \_\_\_\_\_.
18. When measuring pure torsion, the strain gauges are bonded to the shaft at \_\_\_\_\_ degrees to the axis of rotation.
19. A strain bridge circuit is usually calibrated by \_\_\_\_\_.
20. Parameter of dynamic input signal is generally determined by Lissajous diagram on an oscilloscope is \_\_\_\_\_.

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**Answer All Questions. All Questions Carry Equal Marks. Time: 20 Min. Marks: 10.****I Choose the correct alternative:**

1. Dynamometers are \_\_\_\_\_ measuring devices [      ]  
(A) Force (B) torque (C) power (D) displacement
2. In some measurements, in order to increase the sensitivity, two measuring and two reference cells are often used. This arrangement is referred to as [      ]  
(A) wheatstone bridge (B) katharometer (C) attenuator (D) amplifier
3. Sling psychomotor is used to measure [      ]  
(A) Humidity (B) velocity (C) level (D) density
4. Proving rings are used to measure [      ]  
(A) Displacement (B) force (C) velocity (D) acceleration
5. The change in length of humidity sensitive elements is measured by [      ]  
(A) hydrometer (B) hygrometer (C) psychrometer (D) photometer
6. Mass spring seismic sensors measure directly the [      ]  
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7. when an automatic control system is \_\_\_\_\_ the output variable overshoots its desired steady state condition and a transient oscillation occurs [      ]  
(A) under damped (B) over damped (C) critically damped (D) without damping
8. Which type of device is suitable for dynamic force measurement [      ]  
(A) lever balance (B) spring balance (C) proving ring (D) piezo electric transducer
9. In case of strain gauge transducers, several strain cycles, and temperature cycles are carried out before making measurements, in order to [      ]  
(A) Increase life (B) enable high repeatable readings  
(C) eliminate pressure failures (D) avoid drift
10. Laser dropller anemometer is used to measure [      ]  
(A) pressure (B) velocity (C) level (D) density

**II Fill in the blanks**

11. The transient performance characteristics of the control are conveniently obtained from the curve of the \_\_\_\_\_ response function.
12. The frequency response can be obtained analytically from \_\_\_\_\_.
13. Mechanical Tachometer is used to measure \_\_\_\_\_.
14. The use of a dummy strain gauge in a Wheatstone bridge circuit helps to eliminate errors due to variation in \_\_\_\_\_.
15. When measuring pure torsion, the strain gauges are bonded to the shaft at \_\_\_\_\_ degrees to the axis of rotation.
16. A strain bridge circuit is usually calibrated by \_\_\_\_\_.
17. Parameter of dynamic input signal is generally determined by Lissajous diagram on an oscilloscope is \_\_\_\_\_.
18. Torsion meters are used to measure \_\_\_\_\_.
19. Vibrometer is used to measure \_\_\_\_\_.
20. The overshoot and the settling time are maximum with \_\_\_\_\_ damped system.

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1. Sling psychomotor is used to measure [      ]  
(A) Humidity (B) velocity (C) level (D) density
2. Proving rings are used to measure [      ]  
(A) Displacement (B) force (C) velocity (D) acceleration
3. The change in length of humidity sensitive elements is measured by [      ]  
(A) hydrometer (B) hygrometer (C) psychrometer (D) photometer
4. Mass spring seismic sensors measure directly the [      ]  
(A) displacement (B) velocity (C) acceleration (D) shock
5. when an automatic control system is \_\_\_\_\_ the output variable overshoots its desired steady state condition and a transient oscillation occurs [      ]  
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9. Dynamometers are \_\_\_\_\_ measuring devices [      ]  
(A) Force (B) torque (C) power (D) displacement
10. In some measurements, in order to increase the sensitivity, two measuring and two reference cells are often used. This arrangement is referred to as [      ]  
(A) wheatstone bridge (B) katharometer (C) attenuator (D) amplifier

**Cont.....2**

**II Fill in the blanks**

11. Mechanical Tachometer is used to measure \_\_\_\_\_.
12. The use of a dummy strain gauge in a Wheatstone bridge circuit helps to eliminate errors due to variation in \_\_\_\_\_.
13. When measuring pure torsion, the strain gauges are bonded to the shaft at \_\_\_\_\_ degrees to the axis of rotation.
14. A strain bridge circuit is usually calibrated by \_\_\_\_\_.
15. Parameter of dynamic input signal is generally determined by Lissajous diagram on an oscilloscope is \_\_\_\_\_.
16. Torsion meters are used to measure \_\_\_\_\_.
17. Vibrometer is used to measure \_\_\_\_\_.
18. The overshoot and the settling time are maximum with \_\_\_\_\_ damped system.
19. The transient performance characteristics of the control are conveniently obtained from the curve of the \_\_\_\_\_ response function.
20. The frequency response can be obtained analytically from \_\_\_\_\_.

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1. The change in length of humidity sensitive elements is measured by [      ]  
(A) hydrometer      (B) hygrometer      (C) psychrometer      (D) photometer
2. Mass spring seismic sensors measure directly the [      ]  
(A) displacement      (B) velocity      (C) acceleration      (D) shock
3. when an automatic control system is \_\_\_\_\_ the output variable overshoots its desired steady state condition and a transient oscillation occurs [      ]  
(A) under damped      (B) over damped      (C) critically damped      (D) without damping
4. Which type of device is suitable for dynamic force measurement [      ]  
(A) lever balance      (B) spring balance      (C) proving ring      (D) piezo electric transducer
5. In case of strain gauge transducers, several strain cycles, and temperature cycles are carried out before making measurements, in order to [      ]  
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(A) wheatstone bridge      (B) katharometer      (C) attenuator      (D) amplifier
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(A) Displacement      (B) force      (C) velocity      (D) acceleration

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