



भारतीय प्रौद्योगिकी संस्थान राजस्थान  
INDIAN INSTITUTE OF TECHNOLOGY RAJASTHAN

Question Paper: Junior Lab Assistant Examination  
Discipline: Mechanical Engineering

Time: 45 Minutes

Date: 08<sup>th</sup> January, 2011

Name : \_\_\_\_\_

Father's Name : \_\_\_\_\_

Address : \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Contact No. : \_\_\_\_\_

Signature : \_\_\_\_\_

## Junior Lab Assistant Examination (Jan2011) IIT Rajasthan

Name of the candidate:

### Instructions:

1. Please answer all questions.
2. Give your answer on the question paper itself.
3. Write your full name on this sheet
4. Kindly return this paper before you leave
5. There is NO negative marking.

### Questions:

1. ISO 9000 refers to -----  
A:
2. ASTM standards refer to -----  
A:
3. A fork lift on manufacturing shop floor is a -----  
A:
4. A Gantt chart is a pictorial tool for display of -----?  
A:
5. The process of determining different characteristics and correct conversion factors of an instrument is referred to as -----?  
A:
6. The dynamic response of an instrument refers to its -----?  
A:
7. The logarithmic decrement of vibrating systems is used to determine ---?  
A:
8. A machine drawing of a part must specify the dimensions and ----- for manufacturing the part?  
A:
9. A typical error that occurs in sensors with time and change in temperature -----?  
A:
10. A Manometer is a device used to measure -----?  
A:
11. FMEA in design for manufacture of a product refers to -----?  
A:
12. Resonance of a linear system occurs when its natural frequency is -----?  
A:
13. Automotive engine blocks are made by which manufacturing process?  
A:
14. What limits the speed of machining in a machine tool?  
A:
15. Sound levels are measured in which units?  
A:
16. Hot spot detection in rolling mills is possible with ----- imaging?  
A:

17. The subject that deals with procurement and storing of consumables for a laboratory or a factory is -----?

A:

18. Octane number refers to the combustion and ignition quality of -----?

A:

19. The waste in a machine shop is mainly due to chips and.....?

A:

20. The failure profile of a machine with life cycle is of which shape?

A:

21. After the Warranty period of a machine you need to sign which document with the supplier?

A:

22. An improper foundation for a rotating machine leads to -----?

A:

23. The mechanism in a shaping machine is referred to as ----- ?

A:

24. A flywheel is used in reciprocating engines for-----

A:

25. The outer profile of an automobile is designed to reduce the -----?

A: