
MCQs Bank for Tech-III (Mechanical)

1. When machine is allowed to continue work until it cannot perform the function any longer, the required maintenance style is called -
 - a) **Breakdown Maintenance**
 - b) Preventive Maintenance
 - c) Corrective Maintenance
 - d) None of above

2. The technique to minimize the equipment breakdown & down time both in number & extent comprising of well planned, coordinated inspections, adjustments, repair etc. is called -
 - a) Breakdown Maintenance
 - b) **Preventive Maintenance**
 - c) Corrective Maintenance
 - d) None of above

3. Preventive Maintenance schedule is based on
 - a) **the past experience & the present information available in the m/c log book & inspection records.**
 - b) data provided by security staff/RPF.
 - c) advertisements in newspapers.
 - d) None of above

4. The unit of energy in MKS system is
 - a) **Joules**
 - b) Watts
 - c) Power
 - d) Force

5. Thread ring gauges are used check external threads. Separate 'Go' and 'No Go' gauging members are provided. Which one of the following screw thread elements is not checked with the ring gauges?
 - a) Pitch
 - b) **Helix angle**
 - c) Profile
 - d) Pitch diameter

6. Morse taper is one of the internationally accepted standard tapers. The morse taper is available in numbers from?
 - a) **0 to 7**
 - b) 0 to 8
 - c) 1 to 7
 - d) 1 to 8



7. A main purpose of using worm and worm wheel drives in machines and their accessories is to-

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- a) Transmit large torque
- b) Provide large speed reduction from worm shaft to worm wheel**
- c) Transmit higher speeds
- d) Provide attractive look

8. The tooth thickness of rack is measured by

- a) Universal vernier caliper
- b) Gear tooth vernier caliper**
- c) Flange micrometer
- d) Gear tester

9. You have to machine a flat surface on a work piece of two metres length. Which machine will you choose for this?

- a) Planer**
- b) Slotting
- c) Milling
- d) Shaper

10. Which one of the following groups of properties enables the manufacture of chain hooks from wrought iron?

- a) Ductility, malleability and hardness
- b) Hardness, toughness and ductility
- c) Malleability, ductility and toughness**
- d) Hardness, toughness and brittleness

11. Oil grooves are to be cut in brass half bearings. Which one of the following chisels is suitable-

- a) Flat chisel
- b) Cross chisel
- c) Half round nose chisel**
- d) Web chisel

12. You have to file an aluminium block to a smooth finish, which one of the following cut of file is most suitable

- a) Double cut**
- b) Curved cut
- c) Rasp cut
- d) Single cut

13. Which one of the following is an artificial abrasive

- a) Sand
- b) Diamond
- c) Corundum
- d) **Silicon carbide**

14. A high carbon steel has to be forged, which colour indicates the most suitable forging temperature

- a) **Yellow red**
- b) Dark cherry red
- c) White
- d) Green

15. Which milling machine is particularly adopted for milling internal or external profiles

- a) Pantograph milling machine
- b) Universal milling machine
- c) Planetary milling machine
- d) **Tracer controlled milling machine**

16. CNC machines are not manually operated. They are controlled by means of

- a) **CNC programme**
- b) Satellite
- c) A cam
- d) A plug board system

17. Counter boring is done for

- a) Deburring hole ends
- b) Enlarging holes
- c) Finishing cored holes
- d) **Accommodating socket head screws**

18. A point to point control system is suitable only for one of the following applications?

- a) Milling profile
- b) Turning
- c) **Drilling**
- d) Grinding



19. An irregularly shaped work piece is turned on a lathe. Which one of the following work holding accessories is used
- a) Three jaw chuck
 - b) Two jaw chuck
 - c) Driving plate
 - d) **Face plate**
20. The pattern on the work surface caused by the movement of the cutting tool is called
- a) Waviness
 - b) Roughness
 - c) Surface texture
 - d) Lay
21. A product is said to have the quality when
- a) Its shape and dimensions are acceptable to supervisor
 - b) It appears to be very good
 - c) **It is fit for use**
 - d) The choice of material is right
22. Which taper is used on spindle nose of the lathe head stock
- a) Jerno taper
 - b) Brown and sharp taper
 - c) Pin taper
 - d) **Morse taper**
23. Why do you hold a work piece lengthwise while machining in a planning machine
- a) It is easier to load work piece lengthwise
 - b) the idle time will be minimised
 - c) **the surface quality will be improved**
 - d) the tool life will be increased
24. Rough and finish boring operations are carried out to machine a hole in a milling machine, for rough boring select
- a) High spindle speed and coarse feed
 - b) **slow spindle speed and coarse feed**
 - c) slow spindle speed and fine feed
 - d) High spindle speed and fine feed



25. While machining cast iron coolant should be

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- a) Dry air
- b) Kerosene
- c) Machine oil
- d) Lubricating oil

26. The tool post of a planing machine is mounted on

- a) Apron
- b) Cross rail
- c) Clapper box
- d) Saddle

27. Which one of the characteristics of a milling cutter is most suitable for climb milling -

- a) Left hand cutting
- b) Teeth material is carbide
- c) Larger clearance and rake angle
- d) The teeth are straight to the axis of the cutter

28. Which one of the bushes used in a drill jig and permits cutting tools of different diameters

- a) Press fit bushes
- b) Removable bushes (slip)
- c) Fixed removable bushes
- d) Liner bushes

29. While grinding and lapping cemented carbide tipped tool with diamond wheels a good flow of coolant should be directed to cover the grinding zone, the coolant suitable is?

- a) Soluble oil
- b) Mineral oil
- c) Sulphurised oil
- d) Mixture of paraffin and water

30. Indexing head mechanism works with?

- a) Rock and gear
- b) Worm and worm gear
- c) Two helical gear
- d) Two bevel gear



31. Which is the correct expression for the unit of feed rate in milling.

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- a) **m/min**
- b) mm/rev
- c) mm/sec
- d) mm/min

32. Birds sitting on live electric wire do not get shocks because –

- a) electric circuit is incomplete
- b) Birds are immune to electricity
- c) **They have special claws**
- d) None of the above

33. The SI unit of current is --

- a) Volt
- b) **Ampere**
- c) Ohms
- d) Newton

34. First aid for an electric shock at workshop floor is/are –

- a) **Cut the power source, check victim for response & give CPR if required, call medical help.**
- b) Immediately call the union leader & start campaigning
- c) Call Police & fire brigade
- d) None of the above

35. In the context of electricity, AC stands for –

- a) Additional Chairperson
- b) **Alternating Current**
- c) Avoid Current
- d) None of the above

36. In context of electricity, DC stands for

- a) District Collector
- b) **Direct Current**
- c) Distribution of Current
- d) Diode capacity

37. Pliers are used for

- a) Measuring current
- b) **Twisting wires, or a combination of tasks including cutting wire etc.**
- c) Holding heavy weight
- d) Tightening screws

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