



Department of Mechanical Engineering

ME 8451 MANUFACTURING TECHNOLOGY –II

Unit III - MCQ Bank

III UNIT-SHAPER, MILLING AND GEAR CUTTING MACHINES- MCQ Bank

1. In shaper machine

- A. tool is stationary while work piece reciprocates
- B. work piece is stationary while tool reciprocates**
- C. both the tool and workpiece reciprocates
- D. both the tool and workpiece rotates

Answer: (B)

2. Following shape(s) is (are) produced with shaper machine

- A. v-block
- B. dove tail
- C. guide gib
- D. all of the above**

Answer: (D)

3. The ram head of shaper machine does not consist of

- A. swivel-head plate
- B. tool slide
- C. clapper box
- D. clutch lever**

Answer: (D)

4. In shaper, during working (cutting) stroke the tool block rests on the

- A. clapper box**
- B. tool slide
- C. tool base
- D. swivel head plate

Answer: (A)

5. The return stroke of shaper machine is called

- A. static stroke
- B. dynamic stroke
- C. cutting stroke
- D. idle stroke**

Answer: (D)

6. Which of the following mechanism is used in shaper machine

- A. Beam engine
- B. Pantograph
- C. Crank and Slotted lever quick return motion mechanism**
- D. watts indicator

Answer: (C)

7. Planer is ___ shaper in size.

- A. larger than**
- B. smaller than
- C. equal to
- D. any of the above

Answer: (A)

8. In a planer

- A. both workpiece and tool rotates
- B. both tool and workpiece reciprocates
- C. tool reciprocates and workpiece is stationary

D. workpiece reciprocates and tool is stationary

Answer: (D)

9. The maximum number of tool heads in planer can be

- A. one
- B. two
- C. three**
- D. four

Answer: (C)

10. The standard clamping device(s) used on planer machine is (are)

- A. planer jack
- B. angle plate
- C. T-holders

D. all of the above

Answer: (D)

11. The size of the planer is specified by the

- A. maximum length of the stroke**
- B. height of tool post
- C. height of its bed

D. all of the above

Answer: (A)

12. Which of the following type of planer has two work tables

A. double housing planer

B. open side planer

C. divide type planer

D. all of the above

Answer: (C)

13. Which of the following is used for machining smaller jobs?

A. shaper

B. planer

C. can't say anything

D. none of the mentioned

Answer: (A)

14. Shaping can be performed more effectively by _____ milling machine.

A. horizontal

B. vertical

C can't say anything

D. none of the mentioned

Answer: (B)

15. Form cutting can be performed more effectively by _____ milling machine.

A) horizontal

B) vertical

C) can't say anything

D) none of the mentioned

Answer: (A)

16. Drilling can be performed more effectively by _____ milling machine.

A. horizontal

B. vertical

C. can't say anything

D. none of the mentioned

Answer: (B)

17. Boring can be performed more effectively by _____ milling machine.

A. horizontal

B. vertical

C. can't say anything

D. none of the mentioned

Answer: (B)

18. Dovetailing can be performed more effectively by _____ milling machine.

A. horizontal

B. vertical

C. can't say anything

D. none of the mentioned

Answer: (B)

19. Straddle milling can be performed more effectively by _____ milling machine.

A. horizontal

B. vertical

C. can't say anything

D. none of the mentioned

Answer: (A)

20. Cutting T-slots can be performed more effectively by _____ milling machine.

A. horizontal

B. vertical

- C. can't say anything
- D. none of the mentioned

Answer: (B)

21. The cutting tool used in shaper is a _____ point cutting tool.

- A. single**
- B. multi
- C. double
- D. none of the mentioned

Answer: (A)

22. Hobbing process is also used for which of the following application?

- A. Punching
- B. Metal bending
- C. Rust removal
- D. Sprocket cutting**

Answer: (D)

23. Hobbing is a special type of which of the following?

- A. Casting
- B. Grinding
- C. Drilling
- D. Milling**

Answer: (D)

24. Hobbing machines are characterised by _____

- A. production rate
- B. largest module or PCD it can generate**
- C. accuracy of the machine
- D. size of the machine

Answer: (B)

25. Face milled gear sets are manufactured in_____

- A. **Single-indexing—one slot at a time**
- B. Single-indexing—two slots at a time
- C. Double-indexing—two slots at a time
- D. All the slots at a time

Answer: (A)

26. How many indexing methods are there for cutting a gear?

- A. 2
- B. 4**
- C. 6
- D. 8

Answer: (B)