

RED SEAL STUDY GUIDE MACHINIST YEAR 3

**25 EXAM PREP QUESTIONS
WITH ANSWERS**



APPRENTICES | INSTRUCTORS | INSTITUTES

RedSealStudyGuide.ca

UNITY CREST SOLUTIONS INC.

INTRODUCTION

Introducing the Red Seal Study Guide – Machinist.

Ready to dive into the world of Machinist? Meet your ultimate companion – the Red Seal Study Guide for Machinist. This practical booklet is your go-to practice tool to conquer your Machinist exam.

Presented in an easy Q&A format, this guide lets you preview the kinds of questions you'll tackle on the real exam day. Consider it a sneak peek into what's coming your way!

Inside its pages, you'll find a treasure trove of Machinist essentials. It's more than just answering questions – it's about truly grasping the basics of Machinist in a way that sticks. Whether you're starting fresh or aiming to refine your skills, this guide has got you covered.

So, get set to challenge yourself, learn in a breeze, and build up your Machinist expertise. With the Red Seal Study Guide, you're all set to take that significant stride toward becoming a certified Machinist.

Ready to get started? For more information, tips, and resources, head over to www.RedSealStudyGuide.ca
Machinist success starts here – dive in!



DISCLAIMER

Study Guide Disclaimer: Important Notice

The Red Seal Study Guide – Machinist is a reference tool meant to enhance your exam preparation. It offers insights into potential question formats. However, it's vital to know that this guide should complement, not replace, official government-issued study materials.

For comprehensive readiness, we recommend using both this guide and official resources provided by relevant authorities. Please note that this guide covers exams across Canadian provinces, but slight content variations might exist.

For your best chance at success, ensure a well-rounded preparation approach that includes official materials.

Good luck on your path to becoming a certified Machinist!

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Let's craft your future together!



1. Galvanized metals have been coated with a thin sheet of?

- A: Chromium
- B: Copper
- C: Tin
- D: Zinc

2. Which of the following metals is the most abundant in the earth's crust?

- A: Calcium
- B: Sodium
- C: Aluminum
- D: Iron

3. Which of the following is used to secure an end mill?

- A: Collet Chuck
- B: Shaped draw-in-bar
- C: Boring Head
- D: Stub arbor

4. Which of the following is used to keep the cutter holder in the milling machine's spindle nose?

- A: Collet
- B: Draw-in-bar
- C: 'T' bolt
- D: Boring bar number

5. The round milling cutter chip space is called:

- A: Round edge
- B: Corner slot
- C: Fillet
- D: Radius

See answers on the next page.



1. ☐ A ☐ B ☐ C ☒ D

Note: _____

2. ☐ A ☐ B ☒ C ☐ D

Note: _____

3. ☒ A ☐ B ☐ C ☐ D

Note: _____

4. ☐ A ☒ B ☐ C ☐ D

Note: _____

5. ☐ A ☐ B ☒ C ☐ D

Note: _____



6. Slitting saw cutters cut?

- A: Convex grooves
- B: Length reduction
- C: Angle-machining
- D: Cutting keyway

7. Which is employed to locate indexing movement?

- A: Index plate
- B: Index crank
- C: Selector arm
- D: Worm shaft

8. If spur gear outside diameter = 300 mm and module = 5 mm, the teeth are:

- A: 58 teeth
- B: 60 teeth
- C: 85 teeth
- D: 29 teeth

9. If the spur gear pitch is 40mm, the outer diameter is 48mm, the module is 4mm, teeth are

- A: 40 teeth
- B: 20 teeth
- C: 30 teeth
- D: 10 teeth

10. In spur gear, if the module =4mm, the tooth height will be:

- A: 8.67 mm
- B: 4.67 mm
- C: 6.67 mm
- D: 5.67 mm

See answers on the next page.



6. ☐ A ☒ B ☐ C ☐ D

Note: _____

7. ☐ A ☐ B ☒ C ☐ D

Note: _____

8. ☒ A ☐ B ☐ C ☐ D

Note: _____

9. ☐ A ☐ B ☐ C ☒ D

Note: _____

10. ☒ A ☐ B ☐ C ☐ D

Note: _____



11. Rack tooth thickness is measured using a?

- A: Universal vernier caliper
- B: Flange micrometer
- C: Vernier gear tooth caliper
- D: Gear tester

12. Always keep the plate cam blank and end mill spindle axes constant.

- A: Orientated
- B: Oppositely
- C: Parallel
- D: Straight and tilted

13. A gear wheel's size is 3 millimeters, and it has 36 teeth, or Z. The diameter of its pitch is:

- A: 108 mm
- B: 75 mm
- C: 80 mm
- D: 12 mm

14. Which mechanism drives the planner table reciprocally with fluid pressure?

- A: Hydraulic drive
- B: Open belt drive
- C: Cross-belt drive
- D: Reversible motor

15. The maximum length of the determined planer size:

- A: Housing
- B: Bed
- C: Stroke
- D: Workpiece

See answers on the next page.



11. ☐ A ☐ B ☒ C ☐ D

Note: _____

12. ☐ A ☐ B ☒ C ☐ D

Note: _____

13. ☒ A ☐ B ☐ C ☐ D

Note: _____

14. ☒ A ☐ B ☐ C ☐ D

Note: _____

15. ☐ A ☐ B ☒ C ☐ D

Note: _____



16. Which of the following is utilized to feed the angular surface planning tool?

- A: Table
- B: Cross rail
- C: Tool head
- D: Saddle

17. The feed is delivered sporadically while planning a workpiece at the:

- A: The return strokes
- B: The center of the forward stroke
- C: The forward stroke
- D: The middle of the return stroke

18. The planer's ability to cut grooves into cylindrical workpieces is dependent on which of the following work-holding devices?

- A: Plate with an angle
- B: Strap clamp
- C: Strap clamp
- D: Planning jack

19. Which of the following bolts is used in conjunction with the clamp to hold the workpiece on a planner table?

- A: Square head
- B: Carriage bolt
- C: Round head bolt
- D: 'T' bolt

20. You must machine a flat surface on a two-meter-long workpiece. Which machine will you use for this task?

- A: Planning
- B: Slotting
- C: Milling
- D: Shaping

See answers on the next page.



16. ☐ A ☐ B ☒ C ☐ D

Note: _____

17. ☐ A ☐ B ☒ C ☐ D

Note: _____

18. ☐ A ☒ B ☐ C ☐ D

Note: _____

19. ☐ A ☐ B ☐ C ☒ D

Note: _____

20. ☒ A ☐ B ☐ C ☐ D

Note: _____



21. A planning machine's tool post is mounted on:

- A: Clapper box
- B: Cross rail
- C: Saddle
- D: Apron

22. Which of the following thread forms on bolts and nuts is intended for general fastening purposes?

- A: 'V' threads
- B: Knuckle thread
- C: Square threads
- D: Acme threads

23. Which of the following screw thread elements is not tested using a thread ring gauge?

- A: Pitch diameter
- B: Helix angle
- C: Pitch
- D: Profile

24. Which of the following external screw thread elements cannot be directly measured using precision instruments?

- A: Crest width
- B: Pitch diameter
- C: Minor diameter
- D: Major diameter

25. A shaper's bull gear is powered by

- A: Sliding block
- B: Pinion
- C: Shaft
- D: Pulley number



21. ☒ A ☐ B ☐ C ☐ D

Note: _____

22. ☒ A ☐ B ☐ C ☐ D

Note: _____

23. ☒ A ☐ B ☐ C ☐ D

Note: _____

24. ☐ A ☒ B ☐ C ☐ D

Note: _____

25. ☐ A ☒ B ☐ C ☐ D

Note: _____



- 1). (A) (B) (C) (D)
- 2). (A) (B) (C) (D)
- 3). (A) (B) (C) (D)
- 4). (A) (B) (C) (D)
- 5). (A) (B) (C) (D)
- 6). (A) (B) (C) (D)
- 7). (A) (B) (C) (D)
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- 22). (A) (B) (C) (D)
- 23). (A) (B) (C) (D)
- 24). (A) (B) (C) (D)
- 25). (A) (B) (C) (D)





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