

Iron worker IP Red Seal Practice Exam

1. What type of bar support would you use in a beam
 - a. SB
 - b. HC
 - c. CB
 - d. BB
2. How many classes of bar support are there?
 - a. 3
 - b. 4
 - c. 5
 - d. 6
3. What color would you use to identify elements of a wall
 - a. Yellow
 - b. Orange
 - c. Pink
 - d. White
4. What class of bar supports provide the least amount of protection?
 - a. D
 - b. A
 - c. B
 - d. C
5. How far apart is an appropriate space to spread out supports?
 - a. 1000mm
 - b. 800mm
 - c. 1200mm
 - d. 300mm
6. What lengths do WWF rolls come in?
 - a. 20 meters
 - b. 50 meters
 - c. 60 meters
 - d. 100 meters
7. What are the stock lengths of shipped rebar?
 - a. 5,10,15,20 meters
 - b. 6,12,18,20 meters
 - c. 5,12,16,18 meters
 - d. 6,9,12,18 meters
8. What is the metric equivalent to the imperial #8 bar

- a. 10mm
 - b. 15mm
 - c. 20mm
 - d. 25mm
9. What is the lap length for a 25mm bar in a column?
- a. 750mm
 - b. 600mm
 - c. 625mm
 - d. 800mm
10. How do you reinforce against punching force?
- a. Add bar between columns
 - b. Add bars in slab
 - c. Add integrity bars
 - d. Add more top bars
11. A capitol is added in a slab for what reason?
- a. Spread out shear force
 - b. Increase head room
 - c. To protect rebar
 - d. Fire proofing building
12. What is an abutment?
- a. Superstructure
 - b. Supporting structure at ends of bridge
 - c. Footings
 - d. Pile cap reinforcement
13. Where would you find a corbel?
- a. Slab
 - b. Beam
 - c. Airport
 - d. Bridge
14. Where would you locate a spandrel beam?
- a. Supporting the girders
 - b. Being supported by girders
 - c. In the interior of the project
 - d. On the exterior of the project
15. What is a girder?
- a. Secondary supporting beam
 - b. Structural beam
 - c. Primary supporting beam
 - d. Column

16. What does “15-20m-5000@200” refer to?
- a. Diameter,size,space,length
 - b. Quantity, diameter,length,space
 - c. Space,quantity,diameter,length
 - d. Length,space,quantity,diameter
17. What diameter is a bar marked AA25020
- a. 20mm
 - b. 15mm
 - c. 25mm
 - d. 10mm
18. Temperature reinforcing is meant for
- a. Shear force
 - b. Tensile force
 - c. Crack control
 - d. Weight deflection
19. Concrete is strong in _____ but weak in _____
- a. Compression, tension
 - b. Tension, shear
 - c. Shear, compression
 - d. Compression, torsion
20. Rebar is strongest against
- a. Compressive forces
 - b. Tensile forces
 - c. Shear forces
 - d. Torsion forces
21. What ingredient is not required to make concrete?
- a. Fine aggregates
 - b. Course aggregates
 - c. Water
 - d. Mortar
22. What are the stresses experienced in reinforced concrete?
- a. Compression, torsion, shear
 - b. Compression, tension, torsion
 - c. Tension, compression, shear
 - d. Shear, torsion, extention

23. If the cross sectional value of 20mm rebar is 300 and the cross sectional value of 15mm rebar is 200, how many 15 mm bars would I need in order to replace 200 20mm of the same length?
- a. 200
 - b. 300
 - c. 400
 - d. 500
24. When making a test specimen for 1 type of rebar, how many test specimens would I need for 40 ton?
- a. 2
 - b. 4
 - c. 6
 - d. 8
25. What is the standard mill length of 10 mm rebar in Canada?
- a. 12meters
 - b. 18meters
 - c. 16meters
 - d. 20meters
26. What size is normally used for a stirrup
- a. 10mm
 - b. #5
 - c. 15mm
 - d. Both A & B
27. Epoxy coated rebar is designed to aid in concrete spalling
- a. True
 - b. False
28. Rebar cast against and permanently exposed to earth must have ____mm cover unless otherwise posted
- a. 30mm
 - b. 40mm
 - c. 50mm
 - d. 75mm
29. How many bars tied together make a bundle?
- a. 3
 - b. 6
 - c. 4
 - d. 5
30. With bundled bars, the minimum cover is
- a. 40mm
 - b. 50mm
 - c. Same as a single bar
 - d. None of the above

31. The abbreviation for FF means
- a. Far face
 - b. Fotting face
 - c. First face
 - d. None of the above
32. What type of tie might replace a (wrap and snap) tie when tying to a wall?
- a. Saddle
 - b. Figure eight
 - c. Saddle with wrap
 - d. Double snap
33. The three methods of splicing rebar are mechanical, welded, and _____
- a. Lapping
 - b. Stitching
 - c. Wedging
 - d. Dowelling
34. How long is a piece of rebar used to make a 8" X 10" tie?
- a. 36"
 - b. 38"
 - c. 41"
 - d. 38 ½"
35. The number of each bar size corresponds to the number of eights in the bar
- a. True
 - b. False
36. What is the spacing required to make a mat of 16 bars, 8 each way of #5 bars 17-1/2" in length?
- a. 12"
 - b. 16"
 - c. 18"
 - d. 30"
37. How often should a bar support (plastic chair) be placed on the BLL of a slab?
- a. 2 ft
 - b. 3 ft
 - c. 4 ft
 - d. 5 ft
38. Any type of tie can be made stronger by
- a. Making an extra vertical wrap

- b. Making an extra horizontal wrap
- c. Doubling the wire
- d. Twisting more than 4 times

39. The word _____ covers just about all horizontal members except trusses

- a. Column
- b. Brace
- c. Beam
- d. None of the above

40. What is the abbreviation for footing?

- a. F
- b. FF
- c. Foot
- d. Ftg

41. List in order the colors used to code rebar in order

- 0
- 1)
- 2)
- 3)
- 4)
- 5)
- 6)
- 7)
- 8)
- 9)

42. How many 1/8's are equivalent to a 10m piece of rebar?

- a. 1
- b. 2
- c. 3
- d. 4

43. How would you rig epoxy rebar?

- a. Wire rope choked
- b. Wire rope basket
- c. Nylon sling choked
- d. Nylon sling basket

Answer Key

- 1) D
- 2) C
- 3) A
- 4) B
- 5) C
- 6) C
- 7) D
- 8) D
- 9) A
- 10) C
- 11) A
- 12) B
- 13) D
- 14) D
- 15) C
- 16) B
- 17) C
- 18) C
- 19) A
- 20) B
- 21) D
- 22) C
- 23) B
- 24) B
- 25) A
- 26) A
- 27) A
- 28) D
- 29) A
- 30) C
- 31) A
- 32) A
- 33) A
- 34) A
- 35) A
- 36) D
- 37) C

38) C

39) C

40) D

41) Pink

White

Red

Dark Green

Yellow

Dark Blue

Light Green

Orange

Light Blue

Brown/Black

42) C

43) C