

Theory Question Paper

Job role: Assistant Bar Bender & Steel Fixer(CON/Q0202)

Level: 3

Total Marks: 210

Time: 1 hours 30 min

Candidate's Name:

Roll No:

CON/NO214: Read and understand reinforcement bar details from hand sketch.

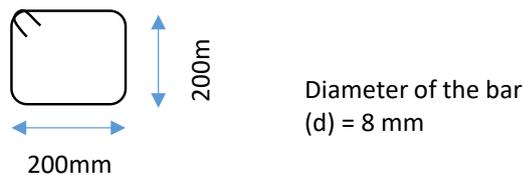
- 1 What is the fullform of "BBS"? 4 marks
a). Bar Bending Scheme
b). Bent Bar Schedule
c). Bent Bar Scheme
d). Bar Bending Schedule

- 2 The symbol " Φ " is used to represent _____ in a construction drawing? 4 marks
a). Circular column
b). Diameter of a rebar
c). Spacing of the rebars
d). Numbers of rebars

- 3 The arrow mark on the map, normally represents which direction? 4 marks
a). North
b). South
c). East
d). West

- 4 What does the scale "1: 50" implies on a drawing sheet ? 4 marks
a). 50 unit on the drawing is 1 units on the project
b). 1 unit on the drawing is 500 units on the project
c). 1 unit on the drawing is 50 units on the project
d). 10 unit on the drawing is 50 units on the project

- 5 What is the cutting length of the following stirrup? 5 marks



- a). 864 mm
b). 800 mm
c). 950 mm
d). 780 mm

- 6 What is the standard length in which reinforcement bars are available in the market? 4 marks
a). 10 m
b). 12 m
c). 8 m
d). 9 m

- 7 What is the thickness of cover block provided for beam? 5 marks
a). 15 mm

- b). 25 mm
- c). 35 mm
- d). 40 mm

CON/NO215: Use and maintain materials, tools and equipment relevant to reinforcement works.

- | | | |
|----|--|---------|
| 8 | Which of the following technique is used to connect two rebars?
a). Lap joint
b). Butt joint
c). Coupler
d). All the above | 4 marks |
| 9 | After cutting of rebar, why the cut ends are hammered?
a). To blunt the sharp edges, formed due to cutting process.
b). This prevent any injury which may cause due to sharp edges
c). This makes handling of the rebars safe
d). All the above | 4 marks |
| 10 | Which of the following does not comes under proper tools storage.
a). Keep tools in a dry place
b). Use silica gel packs in toolboxes
c). Clean out your toolboxes every once in a while by emptying them and wiping them out.
d). Do not lubricate any moving parts of a tool during its storage. | 4 marks |
| 11 | Which of the follwing is a power tool?
a). Hammer & chisel
b). Rebar shearing machine
c). Bending lever
d). Binding hook | 5 marks |
| 12 | Which of the following is not a lifting application?
a). Slings
b). Shackles
c). Lifting belt
d). Safety belt | 4 marks |
| 13 | What is/are the part/s of a hammer?
a). Head
b). Face
c). Handle
d). All the above | 4 marks |
| 14 | What is the thickness of binding wire use for cage fabrication?
a). 10 gauge
b). 12 gauge
c). 06 gauge
d). 16 gauge | 5 marks |

CON/NO216: Perform cutting and manual bending of rebar for simple shape.

- | | | |
|----|--|---------|
| 15 | What is the purpose of chalk with respect to Bar bender job role?
a). For marking
b). For decoration | 4 marks |
|----|--|---------|

- c). For white washing
- d). None

16 Identify the tool given below?

- a). Bar shearing machine
- b). Bar cutting machine
- c). Bar bending machine
- d). Bar tying machine



4 marks

17 Generally, length of hook for the bars having diameter(d) greater than or equals to 8mm is taken as.....?

- a). 5d
- b). 2d
- c). 3d
- d). 10d

5 marks

18 What factor is considered while selecting the type of bending lever?

- a). Diameter of the rebars
- b). Length of the rebars
- c). Grade of the rebars
- d). Weight of the rebars

4 marks

19 Which of the following is a component of bending bench?

- a). Bending lever
- b). Sitting chair
- c). Rebars
- d). Pin plate

4 marks

20

What is the tolerance limit considered for the length of a rectangular stirrup?

- a). +/- 10 mm (both side)
- b). +/- 15 mm (both side)
- c). +/- 05 mm (both side)
- d). +/- 08 mm (both side)

5 marks

21 Which of the following should be observed while checking stirrups?

- a). Shape
- b). Dimension
- c). Length and level of hook
- d). All the above

4 marks

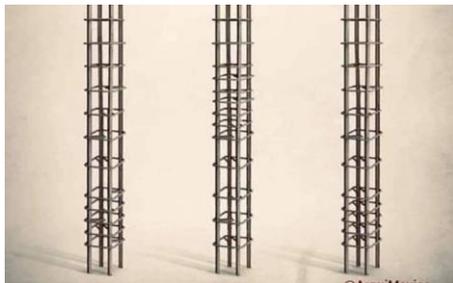
CON/NO217 Assist in fabrication, placing and fixing of rebar for pre-fabricated and in-situ RCC structures.

22 Which of the following is correct representation for column fabrication?

- a). A
- b). B
- c). C
- d). All the above



5 marks



- 23 Why chairs are used in reinforcement? 4 marks
- a). To hold the reinforcement in position
 - b). To maintain the distance between top and bottom reinforcement
 - c). To maintain the tidyness of work
 - d). All the above

- 24 Why staggering is done during lapping of rebars in a column or beam? 5 marks
- a). In order to avoid more than 50 % lapping of the rebars at a particular cross-section.
 - b). In order to avoid more than 50 % lapping of the rebars at a particular cross-section.
 - c). In order to avoid more than 50 % lapping of the rebars at a particular cross-section.
 - d). In order to avoid more than 50 % lapping of the rebars at a particular cross-section.

- 25 What is the purpose of spacer bars? 4 marks
- a). Maintain gap between two rebars
 - b). Prevent corrosion of the bars
 - c). Provide better heat exchange
 - d). All the aboves

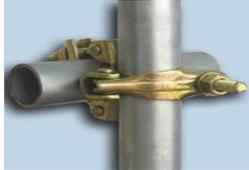
- 26 Which among the follwing is the weakest type of tie? 4 marks
- a). Slash tie
 - b). Hair pin tie
 - c). Hair pin ring tie
 - d). Crown tie

- 27 Why crank are provide to the reinforcement of the slab? 4 marks
- a). To provide bottom reinforcement near the edge of the slab
 - b). To provide top reinforcement near the edge of the slab
 - c). To provide top reinforcement at the center of the slab
 - d). To provide chair to the reinforcement of the slab

- 28 4 marks
- Which of the following in not a reason to provide cover on a RCC structure?
- a). To protect rebars from corrosion.
 - b). To give rebars suffucient embedding to enable them to be stressed without slipping
 - c). To protect rebars from fire, during fire out break.
 - d). To consume more concrete.

CON/NO101 Erect and dismantle temporary scaffold of 3.6 meter height.

- 29 Which of the activity should be done prior to the erection of scaffolding. 4 marks
- a). Application of oil on the scaffold.
 - b). Preparation of platform

- c). Ground preparation
d). None
- 30 Which of the following is used to check the verticality of a structure? 4 marks
a). Measuring tape
b). Plumb-bob
c). Water level
d). None
- 31 Identify the scaffolding system shown in the following figure? 5 marks
a). Cuplock scaffolding
b). Wedge lock scaffolding
c). Ring lock scaffolding
d). Tube and coupler scaffolding
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- 32 A timber or other member used to distribute the load from base plate to the ground is called _____? 4 marks
a). Castor
b). Base plate
c). Toe board
d). Sole board
- 33 Why bracing is provided in the scaffolds? 5 marks
a). To eliminate any tendency for the scaffold to distort or sway
b). To beautify its appearance
c). To eliminate any possibility of the fall of construction materials from the scaffold
d). None
- 34 _____ are horizontal members normally in the direction of the smaller dimension of the working scaffold. 4 marks
a). Transoms
b). Ledgers
c). Tubes
d). Couplers
- 35 Which of the following component is used to adjust the level of scaffold base? 4 marks
a). Guard rail
b). Non adjustable base plate
c). Swivel clamp
d). Screw jack

CON/N8001 Work effectively in a team to deliver desired results at the workplace

- 36 From whom should an assistant bar bender receive instruction? 4 marks
a). From co-workers
b). From clients
c). From reporting senior
d). From mason
- 37 What will happen if you do not interact with your co-worker? 5 marks
a). De-motivation
b). Encouragement
c). Excitement

- d). None
- 38 What will you do if you are not well versed with some critical procedure in your work? 4 marks
- Stay quiet and finish it somehow
 - Ask for help from the procedure expert
 - Decline to work
 - Any one of the above
- 39 Why work schedule is important? 4 marks
- To set the responsibility of each individual in a team.
 - To complete the work within allotted time frame.
 - Helps to keep labour costs low
 - All the above
- 40 Which is not referred as a part of communication skill? 5 marks
- Active listening
 - Giving and receiving feedback
 - Use of sign language
 - Aggressive behaviour
- 41 Why is it important to collaborate with others among a team? 4 marks
- To provide every team member with equal opportunities to participate and communicate their ideas.
 - To work together to receive mutual benefits for the company as well as the team.
 - Both a & b
 - None
- 42 When should waste materials be cleared from the workplace? 4 marks
- After the completion of entire project
 - Every day before leaving site
 - Once in three days
 - Once in seven days

CON/N9001 Work according to personal health, safety and environment protocol at construction site.

- 43 Identify the image shown below? 4 marks
- Safety net
 - Shield
 - Apron
 - Safety belt
- 
- 44 Which of the following is/ are physical hazard? 4 marks
- Falls
 - Electricity
 - Inhalation
 - All the above
- 45 Which of the following may cause fire at the site? 5 marks
- Electrical heating or short circuits
 - Lack of proper housekeeping
 - Chemical fire
 - All the above

- 46 Which fire extinguisher is used to extinguish the fire caused due to electrical short circuit? 4 marks
- a). CO2 based fire extinguisher
 - b). Dry chemical based fire extinguisher
 - c). Both a & b
 - d). None
- 47 Which of the following is not a safe practice while using a ladder? 5 marks
- a). When climbing a ladder, used three points of contact.
 - b). Always stand on top of a ladder.
 - c). Never carry any load that could cause you to lose balance.
 - d). Avoid setting the ladder near exit door.
- 48 Which of the following is/are safe lifting technique? 4 marks
- a). Adopt a stable position and good posture.
 - b). Keep the load as close to your body as possible
 - c). Bend at the knees, not the hips
 - d). All the above
- 49 Which is not a safety measure against falling danger. 4 marks
- a). Provide cover to every floor hole at the site.
 - b). Provide guard rail around elevated platform/ floor/ runway.
 - c). Refuse to work at height as there is danger of fall.
 - d). Use safety harness, safety nets, fall arrestor etc. while working at height