

Theory Question Paper

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

Level: 2

Total Marks: 140

Time: 1 hours 30 min

Candidate's Name:

Roll No:

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

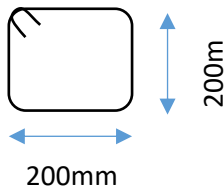
- 1 What is the fullform of "BBS"? 2 marks
a). Bar Bending Scheme
b). Bent Bar Schedule
c). Bent Bar Scheme
d). Bar Bending Schedule

- 2 The symbol " Φ " is used to represent _____ in a construction drawing? 3 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? 3 marks
a). North
b). South
c). East
d). West

- 4 What does the scale "1: 50" implies on a drawing sheet ? 3 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? 3 marks



Diameter of the bar
(d) = 8 mm

- 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? 3 marks
a). 10 m
b). 12 m

- c). 8 m
- d). 9 m


- 7 What is the thickness of cover block provided for beam? 3 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? 3 marks
- a). Lap joint
 - b). Butt joint
 - c). Coupler
 - d). All the above
- 9 After cutting of rebar, why the cut ends are hammered? 3 marks
- 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
- 10 Which of the following does not comes under proper tools storage. 3 marks
- 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.
- 11 Which of the following is a power tool? 2 marks
- a). Hammer & chisel
 - b). Rebar shearing machine
 - c). Bending lever
 - d). Binding hook
- 12 Which of the following is not a lifting application? 3 marks
- a). Slings
 - b). Shackles
 - c). Lifting belt
 - d). Safety belt
- 13 What is/are the part/s of a hammer? 3 marks
- a). Head
 - b). Face
 - c). Handle
 - d). All the above
- 14 What is the thickness of binding wire use for cage fabrication? 3 marks

- a). 10 gauge
- b). 12 gauge
- c). 06 gauge
- d). 16 gauge

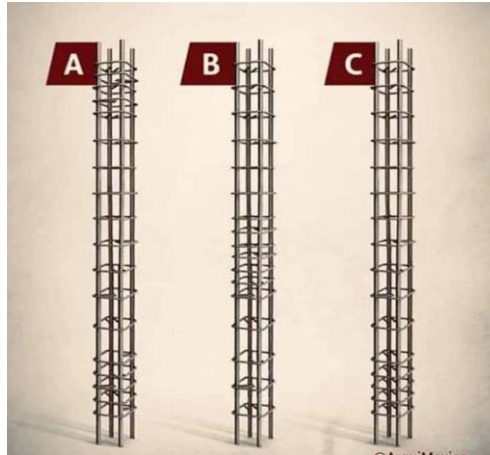
CON/NO216: Perform cutting and manual bending of rebar for simple shape.

- 15 What is the purpose of chalk with respect to Bar bender job role? 2 marks
- a). For marking
 - b). For decoration
 - c). For white washing
 - d). None
- 16 Identify the tool given below? 3 marks
- a). Bar shearing machine
 - b). Bar cutting machine
 - c). Bar bending machine
 - d). Bar tying machine
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- 17 Generally, length of hook for the bars having diameter(d) greater than or equals to 8mm is taken as.....? 3 marks
- a). 5d
 - b). 2d
 - c). 3d
 - d). 10d
- 18 What factor is considered while selecting the type of bending lever? 3 marks
- a). Diameter of the rebars
 - b). Length of the rebars
 - c). Grade of the rebars
 - d). Weight of the rebars
- 19 Which of the following is a component of bending bench? 3 marks
- a). Bending lever
 - b). Sitting chair
 - c). Rebars
 - d). Pin plate
- 20 3 marks
- 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)
- 21 Which of the following should be observed while checking stirrups? 3 marks
- a). Shape
 - b). Dimension
 - c). Length and level of hook
 - d). All the above

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? 3 marks

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



23 Why chairs are used in reinforcement? 2 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? 3 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? 3 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? 3 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? 3 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

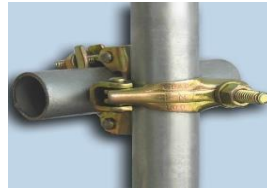
- 28 3 marks
- Which of the following is not a reason to provide cover on a RCC structure?
- a). To protect rebars from corrosion.
 - b). To give rebars sufficient embedding to enable them to be stressed without slipping
 - c). To protect rebars from fire, during fire out break.
 - d). To consume more concrete.

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

- 29 3 marks
- Which of the activity should be done prior to the erection of scaffolding.
- a). Application of oil on the scaffold.
 - b). Preparation of platform
 - c). Ground preparation
 - d). None

- 30 3 marks
- Which of the following is used to check the verticality of a structure?
- a). Measuring tape
 - b). Plumb-bob
 - c). Water level
 - d). None

- 31 2 marks
- Identify the scaffolding system shown in the following figure?
- a). Cuplock scaffolding
 - b). Wedge lock scaffolding
 - c). Ring lock scaffolding
 - d). Tube and coupler scaffolding



- 32 3 marks
- A timber or other member used to distribute the load from base plate to the ground is called _____?
- a). Castor
 - b). Base plate
 - c). Toe board
 - d). Sole board

- 33 3 marks
- Why bracing is provided in the scaffolds?
- 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 3 marks
- _____ are horizontal members normally in the direction of the smaller dimension of the working scaffold.
- a). Transoms
 - b). Ledgers
 - c). Tubes
 - d). Couplers


- 35 3 marks
- Which of the following component is used to adjust the level of scaffold base?
- 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 2 marks
- From whom should an assistant bar bender receive instruction?
- a). From co-workers
 - b). From clients
 - c). From reporting senior
 - d). From mason
- 37 3 marks
- What will happen if you do not interact with your co-worker?
- a). De-motivation
 - b). Encouragement
 - c). Excitement
 - d). None
- 38 3 marks
- What will you do if you are not well versed with some critical procedure in your work?
- a). Stay quiet and finish it somehow
 - b). Ask for help from the procedure expert
 - c). Decline to work
 - d). Any one of the above
- 39 3 marks
- Why work schedule is important?
- a). To set the responsibility of each individual in a team.
 - b). To complete the work within allotted time frame.
 - c). Helps to keep labour costs low
 - d). All the above
- 40 3 marks
- Which is not referred as a part of communication skill?
- a). Active listening
 - b). Giving and receiving feedback
 - c). Use of sign language
 - d). Aggressive behaviour
- 41 3 marks
- Why is it important to collaborate with others among a team?
- a). To provide every team member with equal opportunities to participate and communicate their ideas.
 - b). To work together to receive mutual benefits for the company as well as the team.
 - c). Both a & b
 - d). None
- 42 3 marks
- When should waste materials be cleared from the workplace?
- a). After the completion of entire project

- b). Every day before leaving site
- c). Once in three days
- d). Once in seven days

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

- 43 Identify the image shown below? 2 marks
- a). Safety net
 - b). Shield
 - c). Apron
 - d). Safety belt
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- 44 Which of the following is/ are physical hazard? 3 marks
- a). Falls
 - b). Electricity
 - c). Inhalation
 - d). All the above
- 45 Which of the following may cause fire at the site? 3 marks
- a). Electrical heating or short circuits
 - b). Lack of proper housekeeping
 - c). Chemical fire
 - d). All the above
- 46 Which fire extinguisher is used to extinguish the fire caused due to electrical short circuit? 3 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? 3 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? 3 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. 3 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

