



CON/N0204 Read and understand routine drawings / sketches and Bar Bending Schedule

PC1(a) What are reason to use cranked bar in a slab -

- a- To resist negative bending moment
- b- To resist shear force which is greater as suppose
- c- To reduce the risk of a brittle surface of slab column construction
- d- All of above

(b) What is drawing ?

(c) What is the difference between drawing and sketch ?

(d) What is one way and two way slab ?

(e) A starter used in column , why ?

PC2(a) What is the standard tolerance limit for various rings -

- a- ± 5 mm
- b- ± 8 mm
- c- ± 10 mm
- d- ± 12 mm

(b) Which formula is used to calculate the number of strips in beam -

- a- Span /spacing +1
- b- Spacing /span +1
- c- Span /spacing -1
- d- Spacing /span-1

(c) Where are you provide the main bar in slab -

- a-In shorter span
- b- In longer span
- c-In diagonal
- d-Both a & b

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(d) What is the difference between column and beam ?

PC3(a) Which formula is used for calculate the spacing –

- a-No. of bar/span
- b-Span/No. of bar
- c-No. of bar/span+1
- d-Span /No. of bar +1

(b) Which tools is used for measurement –

- a-Plumb bob
- b-Try square
- c- Line thread
- d-Measurement tape

(c) What is the minimum thickness of slab –

- a-75 mm
- b- 100 mm
- c- 150 mm
- d-200 mm

PC4 (a) How many chairs are provided in 1 m² area –

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

(b) which formula is use to calculate the cutting length of chair –

- a- 4A+2HOOK-8d
- b- 2A+2B+2HOOK-8d
- c- A+2B+2C-8d
- d-A+B+2HOOK-2d

(c) Which one of the following is a purpose of using chair –

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- a-Provide strength
- b-Gap maintain between two trap
- c-To maintain proper cover to the top lager
- d-Both a & b

(d) What is the use of spacer in construction ?

PC5(a) What are the various type of cover block –

- a- Concrete
- b- PVC
- c- Both a & b
- d- None of these

(b) What are the various type of cover –

- a- 2 type
- b- 4 type
- c- 5 type
- d-6 type

(c) What is the standard cover size of beam –

- a-20 mm
- b-25 mm
- c-40 mm
- d-50 mm

(d) Why do we used cover blocks for a slab?

(e) What is cover ?

PC6(a) How to calculate cutting length of square stirrups –

- a- $2\pi + \text{HOOK}$
- b- $A+B+2\text{HOOK}-2d$
- c- $4A+2\text{HOOK}-8d$
- d- $2A+2B+2\text{HOOK}-8d$

(b) What is the purpose of preparing BBS –

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a-Calculate cutting length

b-Calculate unit weight

c-Calculate bar size

d-All of the above

(c) How to calculate cutting length of L Bend –

a-A+B+2HOOK-2d

b- $4\pi + \text{HOOK}$

c- $2A+2B+2\text{HOOK}-8d$

d- $4A+2\text{HOOK}-8d$

(d) What do you mean by BBS ?

(e) What is the meaning of development and length ?

PC7(a) From whom a bar bender should be receive instruction –

a-From supervisor or foreman

b-From manager

c-From co-worker

d-From costumer

PC8(a) What is the used of stirrups in construction ?

(b) Why do provide cover in RCC structure ?

(c) What is meant by two legged stirrups ?

PC9(a) Convert the linear unit –

a- 1 feet Inch

b- 1 feet mm

c- 1m cm

d- 1m feet

(b) Calculate the unit weight of reinforcement –

a-8 mm kg/m

b-10 mm.....kg/m

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c-12 mm.....kg/m

d-16 mm.....kg/m

PC12 What precaution keep in mind during cutting of rebar ?

CON/N205 Use hand and power tools for cutting and bending reinforcement .

PC1(a) Which hand tools are used for cut the rebar –

a- Hand saw

b- Hacksaw with blade

c-Chisel

d-Hammer

(b) Which power tools is used for cutting rebar –

a- Hack saw

b- Rebar bending machine

c- Rebar cutting machine

d-Hand saw

(c) What are the basic required tools and their used for a bar bender –

a-Bar bending level – Bend and shape of rebar

b-Binding HOOK – Tie the rebar with bending wires

c- Pin and Plate – To bend and shape the rebar

d-All are correct

PC2 What are the common power tools used for reinforcement work –

a-Hammer

b- Bar bending machine

c-Binding HOOK

d- Chisel

PC3(a) Which of the following is not a measuring or marking tools in reinforcement work –

- a-Line thread
- b-Ring spanner
- c-Measuring tape
- d-Try square

(b) Which types of hand gloves used in reinforcement work –

- a- Cotton hand gloves
- b-Rubber
- c- Leather
- d- All of the above

(c) Why safety hand gloves are important during reinforcement work ?

(d) Can you use a hacksaw to cut the rebar -

- a- Yes
- b-No

PC4(a) What is the main bar and distribution bar ?

(b) What happens when the main bar is placed on the distribution bar ?

(c) What is the difference between distribution steel and extra bar in slab ?

PC6 (a) what should be do while using power tools –

- a- Ensure that you have been properly trying to use tools safely
- b-If a tools is defective ,remove it from service
- c- Check for damaged switches
- d-All of the above

(b) What are the four basic safety wear while using power tools ?

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PC7(a) Which is the standard procedure for stacking and storing reinforcement –

- a- Store bar of different slabs ,size and length separately
- b- Paint the end of bar of each slabs
- c-Store it above ground level by at least 150 mm upon surface
- d- All of the above

(b) What is the standard procedure of stacking rebar after cutting ?

PC8 (a) Can you use a bending level to bend rebar –

- a-True
- b-False

(b) Can you use rebar cutting machine to thread rebar –

- a- True
- b- False

(c) Can you use rebar bending machine to cut rebar –

- a- True
- b- False

PC9 (a) What is the standard tolerance limit for various rings –

- a- ± 5 mm
- b- ± 10 mm
- c- ± 15 mm
- d- ± 20 mm

(b) Which one of the following is not a hand tools –

- a- Hammer
- b-Binding HOOK
- c-Bending lever

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d-Rebar cutting machine

PC10 (a) Can you provide the strips in slabs

a- True

b- False

(b) What is safety tools ?

PC13 (a) How to check stirrups by visually –

a- Flatness

b- Shape & size

c- Both a & b

d- None of these

(b) What is the standard size of stirrups hook –

a- 5d

b- 10d

c- 15d

d- 20d

PC14 What is the standard procedure of stacking rebar after bending ?

CON/N0206 Prepare, fabricate, place and fix reinforcement for RCC structures

PC1 (a) How many types of drawing –

a- Structural drawing

b- Architectural drawing

c- Both a & b

d- None of these

(b) What is the method statement to fabricate a beam cage ?

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(c) What is the correct method to fixing and placing of cage –

a- By manually

b-By Crain

c- Both a & b

d- None of these

PC2 (a) What is the fixing method of cage (beam or column)- ?

(b) What are the minimum diameter used in beam –

a- 12 mm

b- 10 mm

c- 16 mm

d- 8 mm

(c) following tie is use to corner each structure –

a- hair pin tie

b- slave tie

c- crown tie

d- None of these

PC 3 How to select a rebar as per drawing ?

PC4 (a) Which material is used to marking of rebar –

a- Line thread

b- Chalk

c- Chisel

d- None of these

(b) What is use of bob bar and links in construction work –

a- Column

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b- Beam

c- Slab

d-None of these

(c) What is the position of main bar in beam –

a- Upward position

b-Downward position

c- Middle position

d-None of these

PC5 (a) What is the minimum tolerance limit in beam and column –

a- 2 mm to 5 mm

b- 3 mm to 6 mm

c- 5 mm to 10 mm

d- None of these

(b) What is the use of link in construction work ?

(c) How to check the quality of accessories which used for cutting and bending of rebar ?

PC6 (a) How to check the quality of cutting blade by visual inspection ?

(b) What is lapping length of rebar ?

(c) What is the difference between lap length and development length ?

PC7 (a) Can you use mechanical coupler for lapping –

a- True

b- False

(b) What is the minimum lap length for 16 mm diameter rebar to external a column –

a- 780 mm

b-800 mm

c-480 mm

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d-650 mm

PC8 (a) Which tie is not used in reinforcement work –

a-Hair pin tie

b-Slash tie

c-Puff tie

d-Crown tie

(b) What is the use of distribution bar –

a-Bear load of super structure

b-Bear load of main bar

c-Bear load of beam and column

d-All are correct

(c) Which tie is used for lapping –

a-Slash tie

b-Hair pin tie

c-Splice tie

d- Crown tie

(d) What are the various type of binding wire ?

PC9 (a) What is clear cover and effective cover ?

(b) What is the standard cover size for stair –

a- 15 mm

b- 20 mm

c- 25 mm

d- 30 mm

(c) Why cover blocks are used?

PC10 (a) What is the main purpose of using stirrups during construction?

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(b) What are main various type of beam?

(c) What is a force lagged stirrups?

(d) Why do you provide hook in stirrups ?

PC11 What is C.T.D.

a-Cold Twisted Document

b- Credit Transfer Document

c-Cold Twisted Deformed

d-None of these

PC12 (a) Write the name of various type of tie used in reinforcement work .

(b) What are the various type of binding wire used in construction ?

(c) Which type of binding wire is not used in reinforcement work –

a- M. S. wire

b- G. I. wire

c- Aluminum

d-None of these

PC13 (a) What is the use of sailing and shackles in reinforcement work ?

(b) Write down the various type of steel .

Viva Sheet For Bar Bender and Steel Fixer CON/Q0203

CON/N0204 Read and understand routine drawings / sketches and Bar Bending Schedule

Q1 What is drawing ?

Q2 What is the difference between drawing and sketch?

Q3 How to understand the drawing ?

Q4 What is B.B.S.

Q5 Why do you making bar bending schedule ?

Q5 How to read basic drawing/ sketch for bar bending ?

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Q6 What is one way and two way slab ?

Q7 How to fix the rebar as per drawing ?

Q8 How to carry out simple measurement using metric system ?

Q9 How many chairs are provided in $1m^2$ area as per drawing ?

Q10 What is cover blocks ?

Q11 How to read and understand B.B.S ?

Q12 What is the unit weight of steel like 8,10,12,16,20 e.t.c ?

Q13 Why require the cutting length of rebar ?

Q14 How to plan for cutting length of rebar ?

Q15 What is the different type of cover blocks and their use ?

Q16 How many types of steel rod ,length and diameter ?

Q17 How many type of winding wire ?

CON/N0205 Use hand and power tools for cutting and bending of reinforcement

Q1 What is hand tools ?

Q2 What is power tools ?

Q3 What is measurement tools ?

Q4 Which tools are used to binding the rebar ?

Q5 Which tools are used for tie rebar ?

Q6 What is the distribution bar and main bar ?

Q7 What are the four basic safety wear while using power tools ?

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Q8 What is the standard procedure of stacking rebar after cutting ?

Q9 What is the method of protecting steel from rusting ?

Q10 What is the tolerance limit for bending of rebar ?

Q11 How to maintain correct body posture while bending rebar manually?

Q12 Why do you provide hook in the staircase ?

Q13 How to check the staircase manually ?

Q14 How to tag and stack rebar after bending ?

Q15 what is the safety ?

CON/N0206 Prepare, fabricate, place and fix reinforcement for RCC structures

Q1 How to understand relevant specification as per drawing ?

Q2 What is cage of reinforcement ?

Q3 How to select a rebar for fabrication of cage as per drawing ?

Q4 What are the method for inspection /fixing of rebar as per the type of structure ?

Q5 What are the different type of tie ?

Q6 Why does you mark and place of rebar fabricate cage ?

Q7 What is spacing ?

Q8 What is structure ?

Q9 What is stirrups ?

Q10 What is the method statement to fabricate a beam cage ?

Q11 What is the lapping length of rebar ?

Q12 What is the lap length formula ?

Q13 Why does you provide the tie to rebar ?

Q14 What is the cover block ?

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Q15 Why does you provide cover block in the structure ?

Q16 Why does you provide chair in the structure ?

Q17 What is the importance of clear cover while carrying out reinforcement work ?

Q18 How many type of structure ?

Q19 What is the use of a space bar and hanger bar n reinforcement work ?

Q20 How to check the quality of cutting blade by visually ?

Q21 Hw to check the quality of accessories which are used for cutting and bending of rebar ?

Q22 How did you save high power voltage at the site ?

Q23 What is the basic concrete work ?

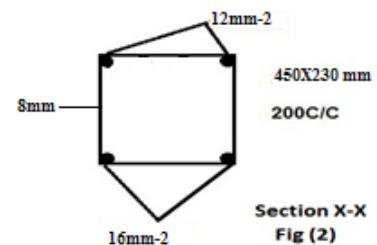
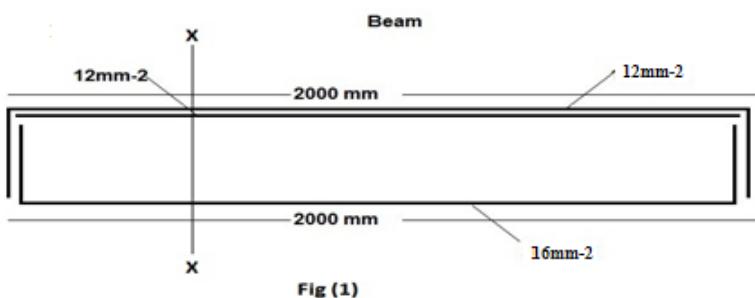
Q24 Why does you provide the shuttering in the structure

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Q1 Lay out preparation for foundation and column .

Q2 Calculate the cutting length of rebar

Q3 Prepare B.B.S for given structure –



CON/N0205 Use hand and power tools for cutting and bending of reinforcement .

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Q1 Use hand tools and power tools for cutting of reinforcement rebar .

Q2 Use hand tools for bending of reinforcement bars .

CON/N0206 Prepare, fabricate, place and fix reinforcement for RCC structures .

Q1 To making different type of stirrups manually and mechanically .

Q2 Prepare a cage for manually and mechanically .

Q3 To layout for fixing cage of (foundation ,column) on the ground