Draughtsman Civil-Semester 3 Module 1 - Planning of Building

Reviewed and updated on: 01st November 2019 Version 1.1

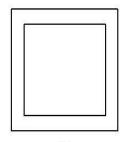
1 : Which of the following is the basic need of a human being?

A : SheetB : ShelterC : HutsD : Tree

2 : Which of the following gives major importance to outside view?

A : AspectB : ProspectC : GroupingD : Lighting

3 : What is the shape of the given plan?



20 SIZE = 20m×20m

20

A : SquareB : RectangleC : OblongD : Circle

4 : What is the other name of circulation in the same floor?

A : Horizontal circulation
 B : Vertical circulation
 C : Zig - Zag circulation
 D : Winding circulation

5 : Who is having legal interest in land or building?

A : LeaserB : MortageeC : MortagerD : Owner

6 : Which of the following shape of plan makes

home compact?A : SquareB : RectangleC : OblongD : Circle

7 : Which of the following standard should considered in planning?

A : IS codes for planning

B : ISI

C: NBC 2005

D: Local building - Bye laws

8 : Who is responsible for providing the legality of the plot?

A : LeaserB : MortageeC : MortagerD : Owner

9 : Which room should be situated near kitchen and drawing?

A : Bed roomB : Living roomC : Dining room

D : Hall

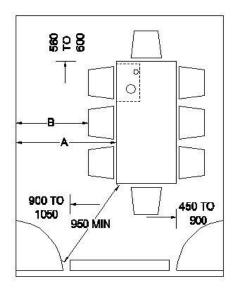
10 : Which room is provided for learning and reading in residential building?

A : Drawing roomB : Study room

C: Entertainment room

D: Work room

11 : What is the name of the room?



A : Bed roomB : Study roomC : Dining room

D: Multi purpose room

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12 : How the economy achieved in building?

A : Providing simple elevationB : Increasing the storey heightC : Increasing steps of stairs

D: Utilizing large sized component

13 : What is the name of the useable floor area excluding staircase?

A : Circulation areaB : Carpet areaC : Covered areaD : Plinth area

14 : What is the name of the built up area at the floor level?

A : PlinthB : Plinth areaC : Plinth heightD : Plinth level

15 : What is the formula for floor area ratio?A : (Total area of walls / Total plot area) x 100

 $\boldsymbol{B} \quad : \quad \text{(Total area of all floors / Total area of walls) } \boldsymbol{x}$

100

C : (Total area of all floors / Total plot area) x 100

D: (Total plot area / Total area of all floors) x

100

16 : What should be the distance between building electric supply mains?

A : 1.0 - 1.8 m **B** : 1.0 - 2.0 m **C** : 1.2 - 2.0 m **D** : 1.5 - 2.0 m

17 : What is the minimum scale of which the key plan need to be drawn according to NBC - 2005?

A : 01:50B : 1:100C : 1:200D : 1:400

18 : Which plan is approved and sanctioned by competent authority?

A : Approved planB : Sanctioned plan

C : Key planD : Site plan

19 : What is the name of the plan which gives location with respect to neighbourhood boundary in

1:10000?

A : Site planB : Key planC : Layout planD : Approved plan

20 : What is the another name of dwelling unit?

A : Row building

B : Residential buildingC : Commercial buildingD : Educational building

21 : What is the name of horizontally sliced building viewed from top?

A : PlanB : SectionC : Elevation

D: Sectional elevation

22 : What is the another name for "Subdivisional plan"?

A : Key plan
B : Layout plan
C : Sanctioned plan
D : Approved plan

23 : What is the maximum number of floors that can be allowed in residential building as per NBC 2005?

A : 2 FloorsB : 3 FloorsC : 4 FloorsD : 5 Floors

24 : Which of the following IS code in used for fire safety?

A : IS 1641 - 1960
B : IS 456 - 200
C : IS 291 - 1972
D : IS 10711 - 1984

25 : Which of the following is used as escape elements in building for fire safety?

A : LobbiesB : Strong roomC : FloorsD : Outer walls

Draughtsman Civil-Semester 3 Module 1 - Planning of Building

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26 : What is the abbrevation for MOEF?

A : Ministry of Ecology and Forest

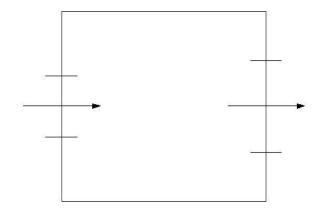
B : Ministry of Environment and FederationC : Ministry of Environment and Forest

D: Ministry of Ecology and Fire

27 : Which does forest conservation act was passed?

A : 1992B : 1980C : 1972D : 2000

28 : What is the name of the figure given below?



A : Stack effectB : Wind effectC : Mechanical effectD : Artificial effect

29 : Which of the following position of door and type of door shutter offer more privacy to room?

A : Centre door - Single shutter
 B : Centre door - Double shutter
 C : Corner door - Single shutter
 D : Corner door - Double shutter

30 : Which of the following room in residential building need more air changes per hour, while comparing to bed room in residential building?

A : Drawing roomB : Master bed room

C : Kitchen
D : Hall

31 : If the area of the building is same, which of the following building is cheaper compared to single storey?

A : 2 storey buildingB : 3 storey buildingC : 4 storey buildingD : 5 storey building

32 : Which of the following is the important advantage of orientation of building?

A : Aesthetic

B : Reduction in energy billsC : Improved circulationsD : Outdoor projection

33 : What is the minimum scale at which a building plan need to be drawn according to NBC 2005?

A : 1:50 B : 1:100 C : 1:200 D : 1:400

34 : Which season gives more lighting to the building?

A : SummerB : WinterC : SpringD : Autumn

35 : What is the maximum covered area for an Industry?

A : 40% of the site area
B : 50% of the site area
C : 60% of the site area
D : 70% of the site area

Draughtsman Civil-Semester 3 Module 2 - Types of Building

Reviewed and updated on: 01st November 2019 Version 1.1

36 : What is the name of the group institutional building was classified?

A : Group CB : Group EC : Group HD : Group I

37 : Which type of building comes in group H?

A : HazardousB : IndustrialC : StorageD : Business

38 : What is the name of the part parallel between boundary and the building?

A : Abut lineB : Set back lineC : Plot lineD : Plinth line

39 : What is the formula for carpet area?

A : Total plot area - Circulation area
 B : Total circulation area - Floor area
 C : Total floor area - Circulation area
 D : Total area of all floors - Wall area

40 : What is the full form of FSI?

A : Floor Site Index
B : Floor Space Index
C : Floor Staircase Index
D : Floor Storey Index

41 : How many persons require one wash basin in public buildings?

A : 100B : 150C : 175D : 200

42 : Which building provides sleeping and cooking facilities?

A: Institutional building
 B: Educational building
 C: Residential building
 D: Hotel building

43 : Which is the important room in a residential building W.R.T NBC 2005?

A : KitchenB : Bed roomC : Hall

D : Drawing room

44 : What is the normal life period of a residential building with concrete roof according to NBC 2005?

A : 50 B : 75 C : 100 D : 110

45 : Which group in which custodial institution comes?

A : Educational building
 B : Institutional building
 C : Assembly building
 D : Business building

46 : What is the allowable height of riser in public building W.R.T to NBC 2005?

A : 12 cmB : 15 cmC : 17 cmD : 19 cm

47 : Which classification does row building comes in?

A : Public buildingB : Residential buildingC : Educational buildingD : Institutional building

48 : What is the lead air charges per hour needed in a restaurant kitchen?

A : 8B : 10C : 12D : 14

49 : Which classification of the building have highest F.A.R permissible?

A : Residential buildingB : Educational buildingC : Institutional buildingD : Mercantile building

50 : What is the permissible F.A.R for commercial building?

A : 1.5B : 2C : 2.5D : 3

Draughtsman Civil - Semester 3 Module 2 - Types of Building

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51 : Where does laboratories comes in the under ground shopping?

A: Mercantile building
B: Business building
C: Industrial building
D: Educational building

52 : What is the basic detail needed for a design engineer, while designing assembly building?

A : Area of plot

B : Number of fixed seats

C : Location of plotD : Total floor area

Draughtsman Civil-Semester 3 Module 3 - Knowledge of CAD

Reviewed and updated on: 01st November 2019 Version 1.1

53 : What is the full form of CPU?
A : Craft Processing Unit (CPU)
B : Code Processing Unit (CPU)
C : Central Processing Unit (CPU)
D : CD Processing Unit (CPU)

54 : Which year does first micro processor was invented?

A : 1970B : 1971C : 1972D : 1973

55 : What is the name of figure?



A : MouseB : MonitorC : KeyboardD : Plotter

56 : What is the full form of CADD?

A : Computer Aided designing and Drafting
 B : Computer Aided Drafting and Drawing
 C : Computer Aided Drawing and designing

D : Computer Aided Drawing

57 : What is the highest dots per inch (DPI) one can print a drawing?

A : 800 dpiB : 1000 dpiC : 1200 dpiD : 1400 dpi

58 : What is the full form of GUI?

A : Golden User Installation
 B : Graphical User Installation
 C : Graphical User Interface
 D : Geometrical User Interface

59 : What is the name of the tool bar given below?



A : DrawB : ModifyC : DimensionD : Visual styles

60 : What is the use of function key F3?

A : OSNAPB : TABLETC : ISOPLANED : SAVE AS

61 : Which of the following software is limited for AutoCAD installation?

A: Windows DOSB: Windows 98C: Windows 03D: Windows 10

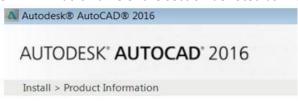
62 : What is the lowest RAM in which AutoCAD 19 will work?

A : 1 GBB : 2 GBC : 3 GBD : 4 GB

Draughtsman Civil - Semester 3 Module 3 - Knowledge of CAD

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63 : What is name of the section denoted as 'X'?

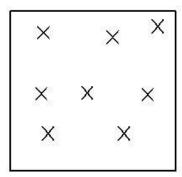




A : Product keyB : Auto key

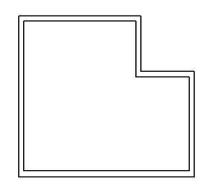
C : Product numberD : Serial number

64 : What is the name of the command from the figure given below?



A : Star commandB : Array commandC : Point commandD : Trim command

65 : What is the name of the command in the figure given below?

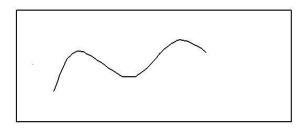


A : Offset

B: Constraction line

C: Multi line **D**: P line

66 : What is the name of the command in the figure given below?



A : P lineB : M lineC : SplineD : Poly line

67 : What is the full form of UCS?

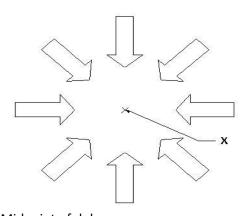
A : User CAD SystemB : User CADD SystemC : User Co-ordinate System

D: User Circle System

Draughtsman Civil - Semester 3 Module 3 - Knowledge of CAD

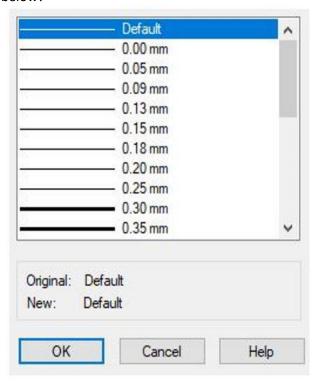
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68 : What is the name of the point marked as 'x'?



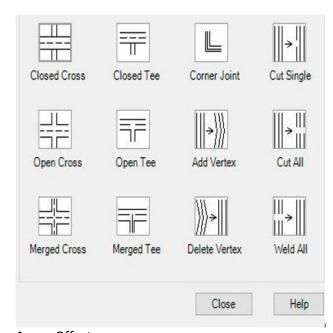
A : Midpoint of dolar
B : Midpoint of offset
C : Centre point of array
D : Centre point of leader line

69 : What is the name of the tool bar given below?



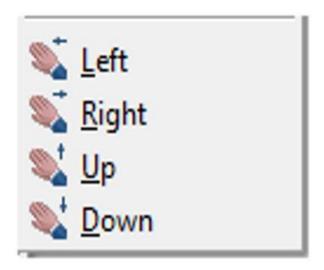
A : Modify weightB : Line weightC : Multi lineD : Units

70 : What is the name of the tool bar given below?



A : OffsetB : Multi lineC : Line widthD : Line weight

71 : Which command has the options given below?

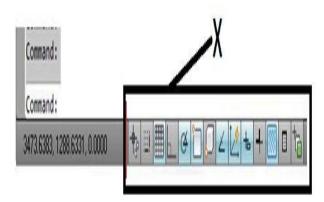


A : SnapB : PanC : GridD : Real time

Draughtsman Civil-Semester 3 Module 3 - Knowledge of CAD

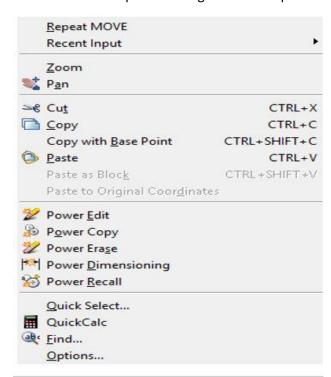
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72 : What is the name of the tool bar marked as 'x'?



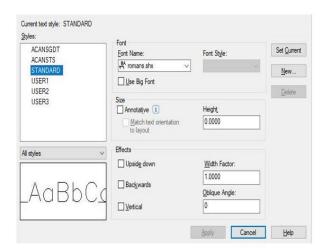
A : Task buttonB : Snap buttonC : Option buttonD : Menu button

73 : How this option menu given below opens?



A : Left clickB : Right clickC : Centre clickD : Clicking F1

74 : What is the name of the menu bar given below?



A : M textB : TextC : Text styleD : Text colour

75 : Which shortcut key does the work of ortho?

A : F6B : F7C : F8D : F9

76 : Which shortcut key does the work of Redo last action?

A : Ctrl + Z
 B : Ctrl + Y
 C : Ctrl + C
 D : Ctrl + X

77 : What is the use of shortcut key 'H'?

A : Help
B : B hatch
C : Hatch

D: Hollow block

78: What is the use of the shortcut key 'M

Text'?

A : Modify textB : Move textC : Multi textD : Menu text

79 : What is the use of 'Q' shortcut key?

A: Quit

B : Quick calcC : Save asD : "Q" leader

Draughtsman Civil-Semester 3 Module 3 - Knowledge of CAD

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80 : Which of the following shortcut keys gives quick calc?

A : Ctrl + 6B : Ctrl + 7C : Ctrl + 8D : Ctrl + 9

81 : Which of the following pointing device is cheaper while comparing the digitizer?

A : Key boardB : PuckC : MouseD : Enter key

82 : Which of the following commands has one major option?

A : LineB : M lineC : P lineD : Polygon

Draughtsman Civil-Semester 3 Module 4 - Pre - Fabricated Structures

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83 : What is the another name for prefabricated structures?

A : Pre-developed structures

: Modular structures C : High structures : Site fixing structures

84 : What is the name of the prefabricating method?

A: Flow method : Fixed method : Stand method : Hand method

85 : Which prefabricated method the units of moved to various section for process?

: Flow method : Fixed method : Stand method D: Vehicle method

86 : What is the name of the concrete, that are prepared at factory and erected at site?

A : Pre-stressed concrete : Post-tensioned concrete : Pre-casted concrete : Post-casted concrete

87 : What is the scale used for prefabricated structure?

A : IS 15913 - 2011 : IS 15914 - 2011 : IS 15915 - 2011 : IS 15916 - 2011

88 : What is the minimum distance between centres of any two adjacent rivet holes to the nominal diameter of the rivet is £ 25mm?

A : Nominal diameter +1.0mm В : Nominal diameter +1.5mm : Nominal diameter +2.0mm D : Nominal diameter +2.5mm

89 : What is the first stage of prefabricated structure construction?

A : Testing of raw materials : Procurement of raw materials

C : Concrete mix design

: Reinforcement preparation

90 : Which part of the prefabricated building structure aim be constructed at site?

Roof slab Δ. Foundation Main beams : Fillers

91 : Which system facilitates assembling of minor elements in conventional construction?

A : Open pre-fab system : Partial pre-fab system C : Full pre-fab system D : Closed pre -fab system

92 : What is the name of assembling structural components at site?

A : Open pre-fab system **B**: Partial pre-fab system C: Full pre-fab system **D**: Closed pre-fab system

93 : Which is the production of housing components using factory mechanisation?

A : Prefabrication : Fabrication C : Construction : Production

94 : Which system is used with double tee slaps for precast beams and walls?

A : Load bearing B: Non load bearing Framed structures **D**: Foundation

95 : Which of the following concrete require transportation for placing?

A: In site concrete

: Post tensioned concrete

C: Pre cast concrete : Pre- stressed concrete

96 : Which of the following is the advantage of prefabricated structures?

A: Transportation

: Need of heavy duty cranes : Deformation of joints D : No need of fastening

Draughtsman Civil - Semester 3 Module 4 - Pre - Fabricated Structures

Reviewed and updated on: 01st November 2019 Version 1.1

97 : What is the advantage of prefabricated structure?

A : Transportation

B : No need of heavy duty cranes

C : Firm jointsD : Mass production

98 : Which section provide one monotitic action between prefabricated units?

A : CompositeB : SteelC : Tensile

D : Compression

99 : What is the procedure to attain complete action between stem and flange?

A : Laced togetherB : Tied togetherC : Keyed togetherD : Cutted together

100 : What is the disadvantage in prefabricated structure?

A : Shorter construction time

B: Financial savings

C: Reduced site disruption

D: Transportation

Draughtsman Civil – Semester 3 Module 5 - Public building and Earth quake resistant structure

Reviewed and updated on: 01st November 2019 Version 1.1

101 : What is the area of playground for 1000 children?

A : 0.10 hectareB : 0.13 hectareC : 0.16 hectareD : 0.20 hectare

102 : Which one of the following is the hard land scape?

A : PlantationB : Types of trees

C : Design of space for people

D: Terrace gardens

103 : In which portion of tectonic plates, earthquake generally occurs?

A : Plate boundariesB : Diversion platesC : Converging platesD : Middle portion

104 : Which instrument is used to detect and record seismic waves?

A : BarographB : SeismographC : DiagraphD : Hygrograph

105 : Which is known as hypocenter?

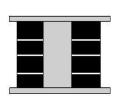
A : EpicenterB : FocusC : Focal depth

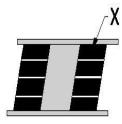
D : Epicentral distance

106 : What is the percentage of the structural cost of the building in the additional cost for the earthquake resisting structure?

A : About 1%B : About 2%C : About 3%D : About 5%

107 : What is the name of the part marked as 'X'?





A : Attachment plates

B : Lead plugC : Rubber layerD : Stiffening plates

108 : What is the minimum distance to be maintained for the door opening from the cross wall?

A : End of the wall

B : 300mmC : 500mmD : 1000mm

109 : What is the minimum thickness for making R.C. Bands?

A : 25mmB : 50mmC : 75mmD : 100mm

110 : What is the distance between two through stones?

A : 150 to 300mmB : 300 to 450mmC : 450 to 600mmD : 600 to 750mm

111 : Which one of the following in structure is the most important factors affecting its earthquake performance?

A : WorkabilityB : ServiceabilityC : FlexibilityD : Responsibility

112 : Which precaution should be taken for site selection to prevent earthquake?

A : Near unstable embankments

B: On sloping ground

C : Columns of different height

D : Continuity of subsoil

Draughtsman Civil— Semester 3 Module 5 - Public building and Earth quake resistant structure

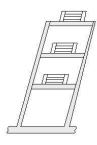
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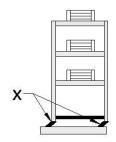
113 : Which shape of building plan is safer for earthquake resisting building?

A : Square planB : T- shaped planC : H- shaped plan

D: Plan have length morethan twice the width

114 : What is the name of the part marked as 'X'?

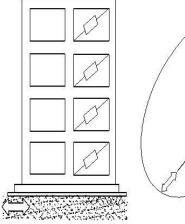


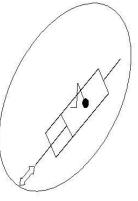


A : Isolation bearingsB : Fixed base

C : Base
D : Isolated

115 : What is the name of the figure?





A : Isolation bearingsB : Viscous damperC : Friction damperD : Yielding damper

116 : Which device act like shock absorbers between the building and its foundation?

A : DamperB : Spring

C : Base isolationD : Air bag

117 : Which isolation bearings are highly elastic?

A : WoodB : SteelC : RubberD : Bearing pads

Draughtsman Civil-Semester 3 Module 6 - Reinforced cement concrete

Reviewed and updated on: 01st November 2019 Version 1.1

118 : Which material is strong in tensile

strength?

A : CementB : SandC : SteelD : Water

119 : What kind of material is concrete?

A : ElasticityB : BrittleC : Stiff

D: Malleability

120 : What is the maximum size of particle in

fine aggregate?

A : 2.75 mm

B : 3.75 mm

C : 4.75 mm

D : 5.75 mm

121 : What is the ratio for M15 grade of

concrete?

A : 1:3:6B : 1:2:4C : 1:1.5:3D : 1:1:2

122 : What is the PH value of water is used for concrete?

A : 2 and 3B : 4 and 5C : 6 and 8D : 9 and 10

123 : What is the maximum absorption limit for coarse aggregate under water for 24 hours?

A : 3%B : 5%C : 7%D : 9%

124 : When does the probs of slab is removed if the span is more than 4.5 m?

A : 7 daysB : 14 daysC : 21 daysD : 28 days

125 : What is the distance between two yokes

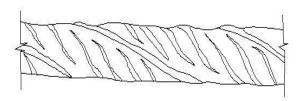
in column formwork?

A : 0.50 m **B** : 1.00 m

C : 1.50 m **D** : 2.00 m

126 : What is the name of the bar shown in

figure?



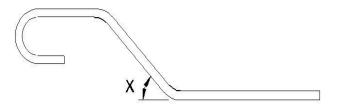
A : Plain round barB : Twisted barC : Ribbed torsteelD : Square bar

127 : What is size marked as 'x'?



A : 4dB : 8dC : 9dD : 18d

128 : What is the angle marked as 'x'?



A : 15°B : 30°C : 45°D : 60°

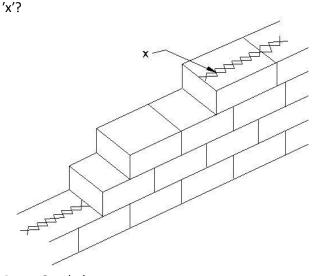
129 : Which symbols denotes deformed bar?

B : □
C : #
D : @

Draughtsman Civil-Semester 3 Module 6 - Reinforced cement concrete

Reviewed and updated on: 01st November 2019 Version 1.1

130 : What is the name of the part marked as



A : Steel plateB : Steel barsC : Reinforced barsD : Mesh reinforcement

131 : How many days the R.B slab is kept wet?

A : Two to four weeksB : One to two weeks

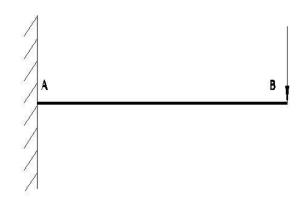
C : One weekD : 3 days

132 : Which type of beam has more than two supports?

A : Cantilever beamB : Overhanging beam

C : Fixed beamD : Continuous beam

133 : What is the name of the beam shown in figure?



A : Simply supported beam

B : Cantilever beamC : Over hanging beamD : Continuous beam

134 : What is the shape of the bending moment diagram over the length of beam carrying a uniformly distributed load?

A : LinearB : CubicalC : CircularD : Parabolic

135 : What is the name of the load acting at a point?

A : Point load

B: Uniformly distributed load

C : Trapezoidal loadD : Triangular load

136 : What kind of labour is required for erection of RCC structures compared to steel structures?

A : Less skilledB : Semi skilledC : Fully skilledD : No skilled

137 : Which of following is the advantage of reinforced concrete?

A : Low maintenance costB : Low compressive strength

C : Low yield strengthD : Low shear strength

138 : Which is the disadvantage of reinforced concrete?

A: Light weightB: Low shrinkageC: Low strength

D: Low maintenance cost

139 : Which material is used to increase the tensile strength in concrete?

A : MudB : Brick batsC : Quarry dustD : Steel

140 : What is the grade of concrete for the concrete mix proportion is 1:1.5:3?

A : M 10B : M 15C : M 20D : M 25

Draughtsman Civil - Semester 3 Module 6 - Reinforced cement concrete

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141 : What is the concrete mix proportion for

M10?

A : 1:3:6B : 1:2:4C : 1:1.5:3D : 1:1:2

142 : What is the initial cost of timber formwork compared to steel formwork?

A : CostlyB : ModeratelyC : CheapD : Very low

143 : Which part of building, the clear cover 25 mm or dia of bar whichever is more is used?

A : BeamB : ColumnC : Slab

D: Foundation

144 : What is mass of 10 mm dia of steel bar per

meter?

A : 0.302 kgB : 0.395 kgC : 0.617 kgD : 0.888 kg

145 : Which type of reinforcement 6 mm diameter mild steel bars are used in walls?

A : Vertical reinforcement
 B : Longitudinal reinforcement
 C : Horizontal reinforcement
 D : Spiral reinforcement

146: Where the bending moment is always

zero?

A : At supportsB : At mid spanC : At 1/5 of spanD : At 1/7 of span

147 : Which point of contraflexure occurs in the section?

A : Bending moment is maximum

B : Bending moment is zero or sign changes

C : Shear force is maximumD : Shear force is minimum

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148 : Which condition the cracking occurs in concrete?

A : ChillingB : WindyC : HumidityD : Milder climate

149 : Which reinforcement is used for work of large dimensions, like massive foundation etc.?

A : Rolled steel beamsB : Fabric made by welding

C : Square meshD : Square bars

150 : Which material is coated at all the faces of concrete mould?

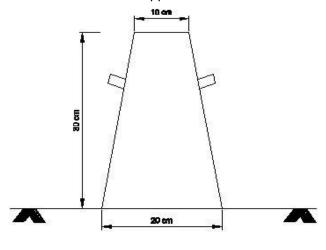
A : WaterB : SandC : Crude oilD : Glue

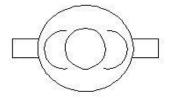
151 : What is the permissible stress for grade Fe

500?

A : 0.33 fyB : 0.44 fyC : 0.55 fyD : 0.66 fy

152 : Name of the apparatus.





A : Vicat's needleB : Slump cone

C : Vibrating tableD : Cylindrical moulds

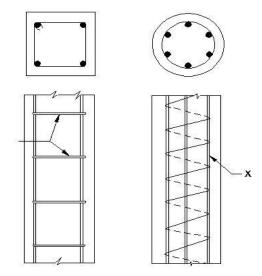
153 : What is the recommended slump for R.C.C

work?

A : 25 to 50 mmB : 40 to 50 mmC : 80 to 150 mmD : 90 to 100 mm

154 : What is the name of the part marked as

'x'?



A : Lateral ties

B : Spiral reinforcementC : Vertical main steel

D : Cover

155 : Which RCC member, bridges two or more walls or columns and supports the structural member coming over it?

A : BeamB : ColumnC : FootingD : Slab

156 : What is the minimum number of main bars are provided for transverse reinforcement?

A : TwoB : ThreeC : FourD : Five

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157 : Which direction in one way slab the main reinforcement is provided?

A : TransverseB : LengthC : WidthD : Depth

158 : What is the maximum diameter of reinforcing bars to the total thickness of slab?

A : 1/5 B : 1/7 C : 1/8 D : 1/10

159 : Which slab is supported on all four edges and the ratio of long span to short span is not more than two?

A : One way slabB : Two way slabC : Continuous slabD : Cantilever slab

160 : Name the reinforcement provided to counteract the tensional stress developed at corners of slab?

A : Main reinforcementB : Torsion reinforcementC : Singly reinforcementD : Doubly reinforcement

161 : How many vertical bars (minimum number) are provided for circular column?

A : FourB : SixC : EightD : Ten

162 : Which of the following method is used for super structure component?

A : Volumetric or modular construction

B : Brick slipC : Rain screenD : Render system

163 : Which of the following option is taken, if the phone line system will be jammed after earth quake?

A : Text messagesB : Call loudly

C : Call through phoneD : Whats app call

164 : Which of the following operation need to be done during earthquake?

A : Standing near the window

B : Collet and put together an emergency kit

C : Check your gas lines

D: Cover and hold on under a desk/table

165 : What will be the compressive strength of 15cm cube after 28 days for a ordinary concrete of grade M30?

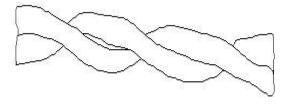
A : 30 N/mm2B : 36 N/mm2C : 40 N/mm2D : 53 N/mm2

166 : Which reinforcement strength is preferred in R.C.C?

A : Low tensile strengthB : High tensile strengthC : Bond strength

D : Compressive strength

167 : What is the name of figure shown?



A : Twin twisted barB : Ribbed for steel

C : Grip barD : Plain bar

168 : Which bar the hooks are provided?

A : Plain bars

B: Hot rolled deformed bars

C : Cold twisted bars

D: Hard - drawn steel wire

169 : What is the percentage reduction of strength for the 6 month old cement?

A : 20%B : 30%C : 40%D : 50%

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170 : What is the total quantity of coarse and fine aggregate for 50kg cement for M15 grade of concrete required?

A : 625 kgB : 480 kgC : 330 kgD : 250 kg

171 : What is the compressive strength of 150 mm cube at 28 days ordinary concrete of grade M20?

A : 15 N/mm2B : 20 N/mm2C : 25 N/mm2D : 30 N/mm2

172 : Which type of cement available in three grades should be used for house construction?

A : Ordinary portland cement

B : Rapid hardening portland cement

C : Portland slag cement

D: High strength ordinary portland cement

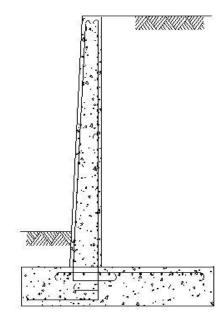
173 : What is the clear cover for foundation slabs and beams?

A : 15 mmB : 25 mmC : 40 mmD : 50 mm

174 : What is the density of steel?

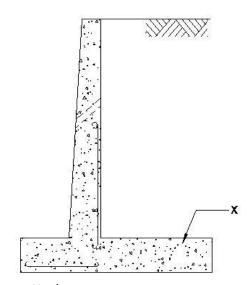
A : 75.8 q/m³
 B : 78.5 q/m³
 C : 85.7 q/m³
 D : 87.5 q/m³

175 : What is name of the retaining wall?



A : Gravity retaining wall
 B : Semi gravity retaining wall
 C : Counter fort retaining wall
 D : Cantilever retaining wall

176 : What is the name of the part marked as 'x'?



A : HeelB : ToeC : StemD : Weep hole

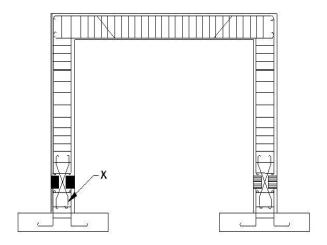
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177 : Which structure is constructed for the purpose of retaining earth or other materials like coal, ore, water etc.?

A : Load bearing wallB : Non load bearing wall

C : Retaining wallD : Wing wall

178 : What is the name of the part marked as 'x'?



A : Column supportB : Bitumen filler

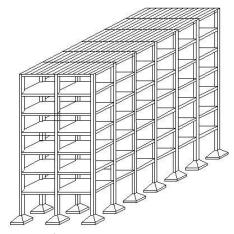
C : Hinge reinforcement

D: Foundation

179 : What is the name of the structure in which components such as beam, column and footing are monolithic in design and construction?

A : Portal frameB : Non-portal frameC : Rigid frameD : Gabled frame

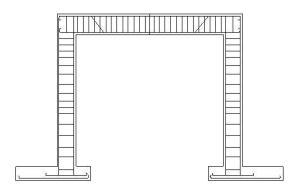
180 : What is name of the structure?



A : R.C.C framed structure

B : Rigid frame structureC : Braced frame structureD : Portal frame structure

181 : What is the name of the frame structure?



A : Portal frame with hinge baseB : Portal frame with fixed baseC : R.C.C framed structure

D: Portal frame

182 : Which diameter of reinforcement bars are used for heavy foundations, large girders or counterforts?

A : 20 mmB : 25 mmC : 32 mmD : 40 mm

183 : Which type of mixer used for large quantity of concrete?

A : Hand mixingB : Batch mixingC : Tilting drum mixersD : Continuous mixer

184 : Where does covering of render is used?

A : Roof B : Floor

C : Outside of the buildingD : Inside of the building

185 : What is length of one 'U' type hook?

A : 4φB : 8φC : 9φD : 18φ

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186 : What is the excess length of the one side of the cranked bar?

A : 0.212 dB : 0.414 dC : 0.616 dD : 0.818 d

187 : What is the weight / m of 12 mm diameter round bar?

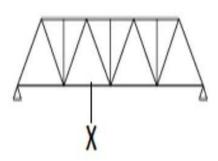
A : 0.39 kg/mB : 0.62 kg/mC : 0.89 kg/mD : 1.58 kg/m

Draughtsman Civil- Semester 3 Module 8 - Steel Structures

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188 : What is the name of the truss marked as

'x'?

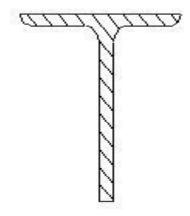


A : Plate girder railway bridge

B : Lattice towerC : Steel chimney

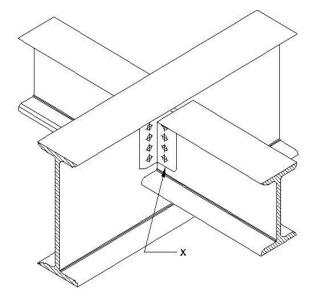
D: Warron truss used in bridges

189 : What is the name of the steel section?



A : H - sectionB : I - sectionC : T - sectionD : Z - section

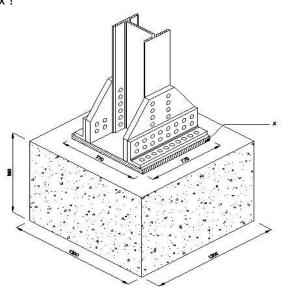
190 : What is the name of part marked as 'x'?



A : Main beamB : Secondary beamC : Web cleatsD : Seat angles

191 : What is the name of the part marked as

′x′?



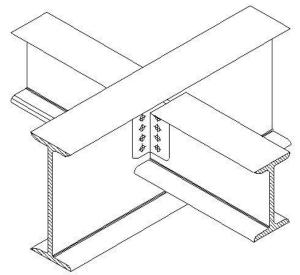
A : Cement concrete base

B : Base plateC : Cleat angleD : Gusset plate

Draughtsman Civil- Semester 3 Module 8 - Steel Structures

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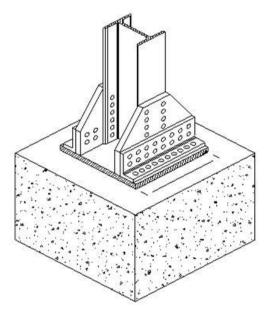
192 : What is the name of the connection?



A : Framed connectionB : Seated connection

C : Column to beam framed connectionD : Column to beam seated connection

193 : What is the name of the connection?



A : Framed connection

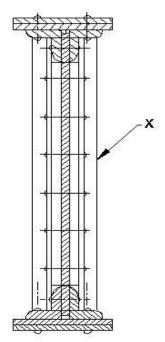
B: Column to beam connection

C : Seated connectionD : Steel stanchion

194 : Which span the plate girders are used?

A: More than 5 m
B: More than 10 m
C: More than 15 m
D: More than 20 m

195 : What is name of the part marked as 'x'?



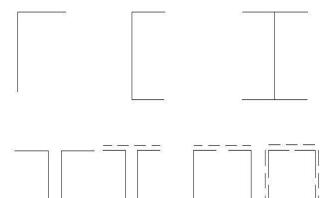
A : ClearanceB : FlangeC : StiffnersD : Packing plate

196 : Which member carries mainly tensile

force?

A : TensionB : BeamsC : PlatesD : Torsion

197 : What is the name of the section?



A : Tension membersB : Compression membersC : Torsion members

D: Beams

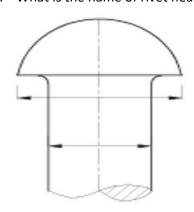
Draughtsman Civil-Semester 3 Module 8 - Steel Structures

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198 : How much the diameter of the hole is larger than the nominal diameter of the rivet if it is less than or equal to 25 mm?

A : 0.5 mmB : 1.0 mmC : 1.5 mmD : 2.0 mm

199 : What is the name of rivet head?



A : Snap headB : Pan headC : Ellipsoidal headD : Conical head

200 : Which riveted joint consists of two parallel rows and rivets where rivets are just opposite each other?

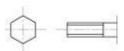
A : Single riveted lap joint

B : Double riveted single lap jointC : Double riveted single lap joint

D: Single cover butt joint

201 : Which figures refers the conventional symbol for cylinder screw cross slot?

A :



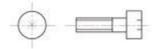
В



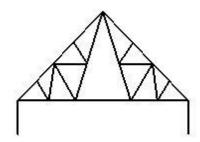
С



D



202 : What is the name of the truss?



A: Fink truss
B: Fan truss

C : Compound fan trussD : Compound fink truss

203 : What advantage of cold former steel members over reinforced concrete and timber?

A : Termite - proof and rot proof

B: Economical

C: Shrinking and creeping at temperature

D: Less accurate detailing

204 : What is the minimum distance between centres of any two adjacent rivet holes to the nominal diameter of the rivet?

A : 1.00 timeB : 1.50 timesC : 2.00 timesD : 2.50 times

205 : What is the main advantage of structural steel?

A : High strengthB : Maintenance costC : Slowly erectionD : Fire proofing cost

Draughtsman Civil-Semester 3 Module 9 - Sewerage system

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206 : What is the name of the water obtained

from tube well?

A : Surface waterB : Sub-surface water

C : Ran-off

D : Potable water

207 : What is the full form of P.H.E.?

A : Public Health Engineering
B : Plumbing Heating Electrical
C : Public Health Emergencies
D : Peer Health Educations

208 : What is the name of the liquid flowing in

sewer?

A : SewerB : SewageC : SewerageD : Storm water

209 : What is the name of the water coming out of the kitchen, bathroom, wash basin?

A : GarbageB : SullageC : SewageD : Discharge

210 : Which factor does sanitaty sewage quantity directly depends on?

A : Rate of water supply

B : AreaC : PopulationD : Precipitation

211 : Which type of sewer system are preferred in India?

A : PartialB : CombinedC : Direct

D : Separate

212 : Which device is used to prevent sewer gased from entering the building?

A : FilterB : TrapC : VentilatorD : Vacuum pump

213 : What is the angle between the drains and

inspection manhole?

A : 45° **B** : 90°

C : 135° **D** : 180°

214 : Which pipeline is laid in buildings to take

out the sewage under the ground?

A : StepsB : BarrelC : Down tankD : Sewer

215 : Which material is made by PVC pipes?

A : SteelB : PlasticC : CopperD : Silver

216 : Which type of trap is used in Indian water

closet?

A : StrapB : PtrapC : UtrapD : Gully trap

217 : What is the first stage in sewage

treatment process?

A : Sedimentation

B : ScreeningC : FilterationD : softening

218 : What is the term for water inside trap

which prevents gas from entering?

A : Drain water

B : Water sealC : Waste waterD : Trap safety

219 : What is the name of the appurtenance

that are constructed at suitable intervals?

A: ManholesB: Catch basinC: Pumps

D : Sewer appurterance

220 : What is the type of manhole having a

depth greater than 1.5 m is called?

A : Straight manholeB : Deep manholeC : Shallow manholeD : Normal manhole

Draughtsman Civil-Semester 3 Module 9 - Sewerage system

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221 : What is the nominal shape of septic tank?

A : SquareB : RectangleC : CircularD : Oval

222 : Which material is used to make manhole cover?

A : Cast ironB : CementC : WoodD : Steel

223 : What is the name for all kinds of liquid waste of a building?

A : RubbishB : GarbageC : AshesD : Sewage

224 : Which plumbing system is common in India?

A : One pipe systemB : Two pipe systemC : Single stack system

D : Single stack partially ventilated

225 : Which pipe system of plumbing work soil and waste pipe are separated?

A : One pipe systemB : Two pipe systemC : Separate systemD : Combined system

226 : How many chambers are there in a septic tank?

A : 2 B : 3 C : 4 D : 5

227 : What should be the minimum diameter of the connecting pipe in the septic tank?

A : 60mmB : 100mmC : 300mmD : 700mm

228 : What is the maximum spacing of manhole sewer size upto 0.3 mf?

A: 20 m **B**: 30 m

C: 45 m **D**: 75 m

229 : Which type of pump should be selected in order to pump the sewage from a septic tank to the water treatment system?

A : Vertical slump pumpB : Progressive cavity pumpC : Centrifugal pump

D : Screw pump

230 : How does the intensity of rain is expressed?

A : cm/minuteB : cm/hourC : cm/dayD : cm/week

231 : Which gas is mainly produced in septic tank?

A : OxygenB : NitrogenC : Hydrogen

D: Hydrogen sulphide

232 : What is the period for sludge digestion in normal conditions?

A : 10 daysB : 20 daysC : 30 daysD : 60 days

233 : Which sewer resist sulphide corrosion?

A : Brick sewerB : Cast iron sewerC : R.C.C. sewerD : Lead sewer

234 : What is the average temperature of sewage in India?

A : 10°C B : 15°C C : 20°C D : 25°C

235 : What is the design of sewage treatment?

A : 5-10 yearsB : 15-20 yearsC : 30-40 yearsD : 40-50 years

Draughtsman Civil-Semester 3 Module 10 - 3D modelling using CAD

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236 : What is the extension for 3D modelling

file?

A : 0.3dB : 0.3dmC : 0.3mD : 0.3dmo

237 : Which command allows you to change 2D drawing into 3D model?

A : 3D modellingB : ExtrudeC : C planD : Ortho

238 : What is the full form of WCS?
A : Western Co- ordinate System
B : World Co- ordinate System
C : Wide Co -ordinate System
D : Wrong Co-ordinate System

239 : How many types of 3D modelling are in

AutoCad? A : 1

B : 2 C : 3 D : 4

240 : How many types of surfaces are in surface modelling?

A : 1 B : 2 C : 3 D : 4

241 : Which command allows you to change the direction and origin of construction plane?

A : PlaneB : SplaneC : C- planeD : O- plane

242 : What is the shortcut for grid command?

A : F6B : F7C : F8D : F9

243 : What is the shortcut for polar?

A : F8 **B** : F9 **C** : F10 **D** : F11 244 : What is the key for 3D OSNAP?

A : F1B : F2C : F3D : F4

245 : Which key is used to access shortcut command in IBM compatible computer?

A : CtrlB : AltC : Ctrl + AltD : Tab

246 : What is the command used to toggle between isometric planes?

A : Ctrl + E
 B : Ctrl + F
 C : Ctrl + G
 D : Ctrl + H

247 : What is the shortcut for design centre palatte?

A : Ctrl +1
 B : Ctrl + 2
 C : Ctrl + 3
 D : Ctrl + 4

248 : What is the shortcut to cancel the last command selected?

A : Ctrl +]
B : Ctrl + [
C : Ctrl + }
D : Ctrl + ,

249 : What is the shortcut for rendering an image?

A : RSB : RSPC : RPD : RW

250 : What is the shortcut for rendering a specified part of drawing?

A : RBB : RCC : RDD : RP

Draughtsman Civil - Semester 3 Module 10 - 3D modelling using CAD

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ANSWERS:

1:B; 2:B; 3:A; 4:A; 5:D; 6:A; 7:D; 8:D; 9:C; 10:B; 11:C; 12:A; 13:B; 14:B; 15:C; 16:C; 17:D; 18:B; 19:B; 20:B; 21:A; 22:B; 23:B; 24:A; 25:A; 26:C; 27:B; 28:B; 29:D; 30:C; 31:A; 32:B; 33:B; 34:A; 35:C; 36:A; 37:C; 38:B; 39:C; 40:B; 41:A; 42:C; 43:B; 44:C; 45:C; 46:B; 47:B; 48:C; 49:D; 50:B; 51:B; 52:B; 53:C; 54:B; 55:C; 56:A; 57:C; 58:C; 59:A; 60:A; 61:D; 62:C; 63:D; 64:C; 65:C; 66:C; 67:C; 68:C; 69:B; 70:B; 71:B; 72:C; 73:C; 74:C; 75:C; 76:B; 77:C; 78:C; 79:C; 80:C; 81:C; 82:C; 83:B; 84:C; 85:A; 86:C; 87:D; 88:B; 89:B; 90:B; 91:B; 92:C; 93:A; 94:A; 95:C; 96:D; 97:D; 98:A; 99:C; 100:D; 101:B; 102:C; 103:A; 104:B; 105:B; 106:D; 107:C; 108:C; 109:C; 110:D; 111:C; 112:D; 113:A; 114:A; 115:B; 116:C; 117:C; 118:C; 119:B; 120:C; 121:B; 122:C; 123:B; 124:B; 125:B; 126:C; 127:A; 128:C; 129:C; 130:D; 131:A; 132:A; 133:B; 134:D; 135:A; 136:A; 137:A; 138:C; 139:D; 140:C; 141:A; 142:C; 143:A; 144:C; 145:B; 146:A; 147:B; 148:B; 149:A; 150:C; 151:C; 152:B; 153:C; 154:C; 155:A; 156:A;

157:C; 158:C; 159:B; 160:B; 161:B; 162:A; 163:A; 164:D; 165:A; 166:B; 167:A; 168:A; 169:B; 170:C; 171:B; 172:A; 173:D; 174:B; 175:D; 176:A; 177:C; 178:C; 179:A; 180:A; 181:B; 182:D; 183:D; 184:C; 185:C; 186:B; 187:C; 188:D; 189:C; 190:C; 191:B; 192:A; 193:D; 194:D; 195:C; 196:A; 197:B; 198:C; 199:A; 200:B; 201:D; 202:D; 203:A; 204:D; 205:A; 206:B; 207:A; 208:B; 209:B; 210:C; 211:B; 212:B; 213:D; 214:D; 215:B; 216:B; 217:B; 218:B; 219:A; 220:B; 221:B; 222:A; 223:D; 224:B; 225:B; 226:A; 227:B; 228:B; 229:C; 230:B; 231:D; 232:C; 233:D; 234:C; 235:C; 236:B; 237:B; 238:B; 239:C; 240:B; 241:C; 242:B; 243:C; 244:D; 245:B; 246:A; 247:B; 248:A; 249:C; 250:B;

Draughtsman Civil— Semester 3 Module 10 - 3D modelling using CAD
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