

**Chapter 1 : Conventions and Symbols 1-1 to 1-16****Syllabus :**

- Conventions as per IS 962-1989, symbols for different materials such as earthwork, brickwork, stonework, concrete, woodwork and glass used in civil engineering. Construction, Graphical symbols for door and window, Abbreviations, symbols for sanitary and electrical installations.
- Types of lines - visible lines, centre line, hidden line, section line, dimension line, extension line, pointers, arrow head or dots. Appropriate size of lettering and numerals for Titles, sub titles, notes and dimensions.
- Types of scale - Monumental, Intimate, criteria for Proper Selection of scale for various types of drawing.
- Sizes of various standard papers/sheets.
- Reading and interpreting readymade Architectural building drawing. (To be procured from Architect, Planning Consultants, Planning Engineer).

✓	<b>Syllabus Topic</b> : Conventions as per IS 962-1989 .....	1-1
1.1	Conventions as per IS : 962-1967 .....	1-1
1.2	Symbols .....	1-2
✓	<b>Syllabus Topic</b> : Symbols for different Materials such as Earthwork, Brickwork, Stonework, Concrete, Woodwork and Glass used in Civil Engineering .....	1-2
1.2.1	Materials Used in Construction (W-14, W-17, S-18) .....	1-2
✓	<b>Syllabus Topic</b> : Construction, Graphical symbols for Door and Window .....	1-3
1.2.2	Building Components (W-14, W-17, S-18) .....	1-3
✓	<b>Syllabus Topic</b> : Abbreviations .....	1-5
1.3	Abbreviations .....	1-5
✓	<b>Syllabus Topic</b> : Symbols for Sanitary and Electrical Installations .....	1-7
1.3.1	Electrical Installation Symbols .....	1-7
✓	<b>Syllabus Topic</b> : Types of Lines - Visible lines, Centre line, Hidden line, Section line, Dimension line, Extension line, Pointers, Arrow Head or Dots .....	1-9
1.4	Types of Lines .....	1-9
1.4.1	Visible Out Lines .....	1-10
1.4.2	Centre Lines .....	1-10
1.4.3	Hidden Lines .....	1-10
1.4.4	Section Lines .....	1-10
1.4.5	Dimension Lines (W-14, W-17, S-18) .....	1-10
1.4.6	Extension Lines .....	1-11
1.4.7	Pointer Lines (Leaders) .....	1-11
1.4.8	Arrow Heads or Dots .....	1-11
✓	<b>Syllabus Topic</b> : Appropriate size of Lettering and Numerals for Titles, Sub Titles, Notes and Dimensions .....	1-12
1.5	Lettering .....	1-12
1.6	Scales .....	1-12
1.7	Reading of Available Ammonia Prints of Residential Buildings .....	1-13
1.8	Composition of Drawings -Requirement of Submission, Working and Detailed Drawings .....	1-13
1.8.1	Title Block .....	1-13

1.9	Differentiate between Load Bearing and Framed Structure .....	1-15
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•	<b>Chapter Ends</b> .....	1-16
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**Chapter 2 : Planning of Building 2-1 to 2-51****Syllabus :**

- Principles of planning of Residential and Public building - Aspect, Prospect, Orientation, Grouping, Privacy, Elegance, Flexibility, Roominess, Circulation, Furniture requirements, Sanitation, Economy.
- Space requirement and norms for minimum dimension of different units in the residential and public buildings as per IS 962-1989.
- Rules and bye-laws of sanctioning authorities for construction work.
- Plot area, built up area, super built up area, plinth area, carpet area, floor area and FAR (Floor Area Ratio) / FSI
- Line plans for residential building of minimum three rooms including w/c, bath and staircase as per principles of planning.
- Line plans for public building-school building, primary health centre, restaurant, bank, post office, hostel, Function Hall and Library.

✓	<b>Syllabus Topic</b> : Principles of Planning of Residential and Public Building .....	2-1
2.1	Principles of Planning for Residential and Public Buildings .....	2-1
✓	<b>Syllabus Topic</b> : Principles of Planning of Residential and Public Building- Aspect .....	2-2
2.1.1	Aspect (S-18) .....	2-2
✓	<b>Syllabus Topic</b> : Principles of Planning of Residential and Public Building - Prospect .....	2-3
2.1.2	Prospect .....	2-3
✓	<b>Syllabus Topic</b> : Principles of Planning of Residential and Public Building - Orientation .....	2-4
2.1.3	Orientation (W-14) .....	2-4
✓	<b>Syllabus Topic</b> : Principles of Planning of Residential and Public Building - Privacy .....	2-5
2.1.4	Privacy (W-17, S-18) .....	2-5
2.1.5	Circulation .....	2-6
✓	<b>Syllabus Topic</b> : Principles of Planning of Residential and Public Building - Grouping .....	2-8
2.1.6	Grouping .....	2-8
✓	<b>Syllabus Topic</b> : Principles of Planning of Residential and Public Building - Roominess .....	2-8
2.1.7	Roominess (W-14, W-17, S-18) .....	2-8
✓	<b>Syllabus Topic</b> : Principles of Planning of Residential and Public Building - Furniture Requirements .....	2-10
2.1.8	Furniture Requirements .....	2-10
✓	<b>Syllabus Topic</b> : Principles of Planning of Residential and Public Building - Sanitation .....	2-12
2.1.9	Sanitation .....	2-12
✓	<b>Syllabus Topic</b> : Principles of Planning of Residential and Public Building - Elegance .....	2-13
2.1.10	Elegance .....	2-13
✓	<b>Syllabus Topic</b> : Principles of Planning of Residential and Public Building - Economy .....	2-14



2.1.11	Economy.....	2-14
2.1.12	Access.....	2-14
2.1.13	Architectural Composition .....	2-15
2.1.14	Climate and its Effect.....	2-17
✓	<b>Syllabus Topic</b> : Space requirement and norms for minimum dimension of different units in the residential and public buildings as per IS 962-1989.....	2-17
2.2	Space Requirements and Norms for Various Units of Residential and Public Buildings.....	2-17
2.2.1	Norms for Residential Buildings .....	2-17
2.2.2	Norms for Public Buildings .....	2-17
2.2.2.1	Sanitary Block.....	2-18
✓	<b>Syllabus Topic</b> : Principles of Planning of Residential and Public Building - Circulation.....	2-18
2.2.2.2	Circulation.....	2-18
2.2.2.3	Lifts .....	2-18
2.2.2.4	Entrance or Reception.....	2-19
2.2.2.5	Parking Space, Garages and Cycle Stands.....	2-19
2.2.2.6	Watchman's Room .....	2-19
2.2.2.7	Public Telephone.....	2-19
2.3	Building Bye-Laws.....	2-19
2.3.1	Necessity of Building Bye-laws .....	2-20
2.3.2	Open Space Requirement.....	2-20
2.3.3	Set Back Distance .....	2-20
2.3.4	Height of the Building .....	2-20
2.3.5	Internal Dimensions of Various Rooms .....	2-21
2.3.6	Lighting and Ventilation .....	2-22
✓	<b>Syllabus Topic</b> : Rules and bye-laws of sanctioning authorities for construction work .....	2-22
2.3.7	Byelaws and Rules of Local Governing Authorities for Construction Work ( <b>W-17, S-18</b> ).....	2-22
✓	<b>Syllabus Topic</b> : Built up area, plinth area, carpet area, floor area and FAR (Floor Area Ratio) / FSI.....	2-24
2.3.8	Calculation of Plinth Floor and Carpet Area.....	2-24
2.3.9	Documents and Drawing Required for Municipal Sanction .....	2-26
2.4	Drawing Line Plans for Residential and Public Buildings .....	2-26
✓	<b>Syllabus Topic</b> : Line plans for residential building of minimum three rooms including w/c, bath and staircase as per principles of planning. ....	2-27
2.4.1	Line Plan for Residential Building.....	2-27
✓	<b>Syllabus Topic</b> : Line plans for public building-school building .....	2-30
2.4.2	Line Plan for Public Buildings.....	2-30
2.4.2.1	Public Buildings .....	2-30
✓	<b>Syllabus Topic</b> : Line plans for public building - Function of Library .....	2-30
2.4.2.2	Building for Education .....	2-30
✓	<b>Syllabus Topic</b> : Line plans for public building - Bank.....	2-33
2.4.2.3	Banks ( <b>W-14, W-17, S-18</b> ) .....	2-33
✓	<b>Syllabus Topic</b> : Line plans for public building - Post office .....	2-36

2.4.2.4	Post Office .....	2-36
✓	<b>Syllabus Topic</b> : Line plans for public building - Hostel .....	2-37
2.4.2.5	Hostels .....	2-37
✓	<b>Syllabus Topic</b> : Line plans for public building –	
✓	Restaurant .....	2-40
2.4.2.6	Hotels.....	2-40
2.4.2.7	Rest houses .....	2-40
2.4.2.8	Markets .....	2-41
2.4.2.9	Buildings for Entertainment.....	2-41
✓	<b>Syllabus Topic</b> : Line plans for public building -	
	Primary Health Centre .....	2-43
2.4.2.10	Building for Health Services ( <b>W-14</b> ).....	2-43
2.4.2.11	Other Buildings .....	2-46
2.4.2.12	Government or Commercial Offices .....	2-48
2.4.2.13	Bus Stations.....	2-49
2.4.2.14	Industrial Buildings.....	2-50
•	<b>Chapter Ends</b> .....	<b>2-51</b>

**Chapter 3 : Drawing of Load Bearing Structure**

**3-1 to 3-60**

<b>Syllabus :</b>	
•	Drawing of Single storey Load Bearing residential building (2 BHK) with staircase
•	Data drawing – developed plan, elevation, section, site plan, schedule for openings, construction notes with specifications, area statement. Planning of staircase-Rise and Tread for residential and public building.
•	Working drawing – developed plan, elevation, section passing through staircase, or WC and bath.
•	Foundation plan of Load bearing Structure.

  

3.1	Types of Drawings .....	3-1
3.1.1	Types of Building Plans .....	3-1
3.2	Development of Line Plan.....	3-2
3.3	Elevation .....	3-2
3.4	Section.....	3-3
3.5	Site Plan.....	3-3
3.6	Location Plan / Key Plan.....	3-5
3.7	Foundation Plan.....	3-5
✓	<b>Syllabus Topic</b> : Foundation plan of Load bearing Structure .....	3-6
3.7.1	Foundation Plan for Load Bearing Structure .....	3-6
3.8	Area Statement .....	3-6
3.8.1	Schedule of Doors and Windows.....	3-8
3.8.1.1	Type of windows .....	3-8
3.8.2	Importance of Schedule of Openings .....	3-9
3.9	Other Details .....	3-10
3.10	Measured Drawing and its Significance.....	3-10
3.11	Submission Drawings .....	3-11
✓	<b>Syllabus Topic</b> : Working drawing – Developed plan, elevation, section passing through staircase, or WC and bath.....	3-11



✓ **Syllabus Topic** : Working drawing – Developed plan, elevation, section passing through staircase, or WC and bath.....3-11

3.12 Working Drawings .....3-11

3.12.1 Requirements for Detailed Drawing .....3-11

✓ **Syllabus Topic** : Drawing of Single storey Load Bearing residential building (2 BHK) with staircase....3-12

3.13 Solved Examples.....3-12

• **Chapter Ends...** .....3-60

**Chapter 4 : Types of Drawings 4-1 to 4-33**

**Syllabus :**

- Drawing of Two storey Framed Structure (G+1) residential building (2 BHKD) with staircase.
- Data drawing - developed plan, elevation, section, site plan, schedule for openings, construction notes with specifications, area statement. Planning of staircase - Rise and Tread for residential and public building.
- Working drawing of framed Structure - developed plan, elevation, section passing through staircase or w.c. and bath.
- Foundation plan of Framed Structure
- Details of RCC footing, column beam Chajjas and Lintel, Staircase.
- Drawing with CAD- Draw commands, modify commands, layer commands.

4.1 Frame structure .....4-1

✓ **Syllabus Topic** : Drawing of Two Storey Framed Structure (G+1) Residential Building (2 BHKD) with Staircase, Data Drawing.....4-2

4.1.1 Drawing of Two Storey Framed Structure and Data Drawing .....4-2

✓ **Syllabus Topic** : Foundation Plan of Framed Structure.....4-5

4.1.2 Foundation Plan for Framed Structure.....4-5

✓ **Syllabus Topic** : Construction Notes with Specifications .....4-7

4.2 Other Details .....4-7

4.3 Measured Drawing and its Significance .....4-8

4.4 Submission Drawings .....4-8

✓ **Syllabus Topic** : Working Drawing of Framed Structure .....4-9

4.5 Working Drawings .....4-9

4.6 Requirements for Detailed Drawing .....4-9

✓ **Syllabus Topic** : Details of RCC Footing, Column beam Chajjas and Lintel, Staircase .....4-19

4.7 Details of RCC Components for Chajjas, Lintel and Staircase **(W-17)** .....4-19

✓ **Syllabus Topic** : Drawing with CAD- Draw Commands, Modify Commands, Layer Commands.....4-24

4.8 Drawing with CAD Commands, Modify Commands, Layer Commands.....4-25

4.8.1 List of Some Important Autocad Commands .....4-27

4.9 Solved Examples.....4-30

• **Chapter Ends...** .....4-33

**Chapter 5 : Perspective Drawing 5-1 to 5-35**

**Syllabus :**

- Definition, Types of perspective, terms used in perspective drawing, principles used in perspective drawing.
- Two Point Perspective of small objects such as steps, monuments, pedestals.

✓ **Syllabus Topic** : Definition .....5-1

5.1 Definition .....5-1

5.2 Necessity of Perspective Drawing .....5-1

✓ **Syllabus Topic** : Terms Used in Perspective Drawing .....5-2

5.3 Terms Used in Perspective Drawing **(W-14, W-17)** .....5-2

✓ **Syllabus Topic** : Principles Used in Perspective Drawing .....5-5

5.4 Principles of Perspective Drawing **(W-14)**.....5-5

✓ **Syllabus Topic** : Types of perspective .....5-7

5.4.1 Types of Perspective .....5-7

✓ **Syllabus Topic** : Two Point Perspective of small objects such as steps, pedestals .....5-7

5.5 Two Point Perspective Views .....5-7

5.5.1 Perspective View of a Pedestal .....5-9

5.5.2 Perspective of a Block of Steps .....5-10

5.6 Solved Examples.....5-13

• **Chapter Ends...** .....5-35

• **Appendix A : Solved MSBTE Question Paper Summer 2019** ..... A-1 to A-2