



1-The minimum amount of glazing area required for a habitable room in a single family dwelling that measures 20 ft. X 30 ft. is \_\_\_\_square feet.

- a) 28
- b) 32
- c) 36
- d) 48

2- What is the clearance required from the opening of a fireplace to combustibles such as trim and mantels placed directly on the front of the fireplace?

- a) 3"
- b) 2"
- c) 4"
- d) 6"

3- Does the residential construction of a \_\_\_\_accessory storage require a permit.

- a) 10x20
- b) 10x22
- c) 160 sq ft
- d) 150 sq ft

4- All Companies with \_\_\_\_\_or more employees must keep OSHA injury and illness records.

- a) 6 or more
- b) 10 or more
- c) 12 or more
- d) 15 or more

5- None of the following required a permit, except:

- a) Sidewalks and Driveways
- b) Tiling work
- c) Fences above 8 feet
- d) Decks not exceeding 200 square feet

6- Live load is:

- a) The weight of the building materials.
- b) The weight of the furniture.
- c) The weight of occupants, furniture and generally anything not permanently attached to the building.
- d) The combined weight of people, snow and material.

7- What is the maximum span of a header used for cold formed steel construction in floor openings?

- a) 4 feet
- b) 6 feet
- c) 8 feet
- d) 10 feet



8- According to the International Residential Code draft stopping is required in all Ceiling and floor openings larger than:

- a) 100 sq ft
- b) 3000 sq ft
- c) 500 sq ft
- d) 1000 sq ft

9- Fasteners, used to connect steel trusses at the bearing wall and ridge, shall be?

- a) No. 6 screws
- b) No. 8 screws
- c) No. 10 screws
- d) 16d nails

10- What type of construction provides the highest standard for fire resistance?

- a) IA
- b) IB
- c) IIA
- d) IIB

11- Handrail height, measured above stair tread nosing, or finish surface of ramp slope, shall be uniform, not less than \_\_\_; and not more than \_\_\_?

- a) 32" and 34"
- b) 34" and 36"
- c) 34" and 38"
- d) 38" and 42"

12- A Church is planning to build a Parking Lot for its Parishioners. The Church plan proposes capacity for 50 cars. How many ( accessible) parking spaces must be reserved for handicap and how many must be "Van" accessible?

- a) 2 accessible Parking and one must be Van accessible.
- b) 2 accessible Parking and two must be Van accessible.
- c) 3 accessible Parking and one must be Van accessible.
- d) 3 accessible Parking and two must be Van accessible.

13- The International Residential Building code requires a maximum height for stairs risers. What are the maximum stairs risers for Massachusetts?

- a) 7<sup>3</sup>/<sub>4</sub>"
- b) 8<sup>1</sup>/<sub>4</sub>"
- c) 10"
- d) 10<sup>3</sup>/<sub>4</sub>"



14- What is the minimum slope for Asphalt Shingle roof?

- a) 1:12
- b) 2:12
- c) 3:12
- d) 4:12

15- A night club is classified under what Group?

- a) Group A
- b) Group A-2
- c) Group F
- d) Group H

16- In the City of Somerville, MA, what is the required insulation R-Value for wood frame walls in a single dwelling?

- a) R 13
- b) R 10
- c) R 20 or 13+5
- d) R 20 + 5

17- If an excavation is \_\_\_\_ or more in depth and occupied by an employee, a ladder must be provided that extends not less than three feet from the top of the hole if no ramp is provided.

- a) 36"
- b) 42"
- c) 48"
- d) 60"

18- A lead paint report must be kept for?

- a) 30 days
- b) 3 years
- c) 10 years
- d) 30 years

19- Scaffolds minimum overlap is?

- a) 10"
- b) 12"
- c) 3 feet
- d) 6 feet

20- Fall protection is required for any work height of?

- a) 6 feet
- b) 10 feet
- c) 15 feet
- d) 20 feet



21- How quickly must injury or illness be reported?

- a) In 7 days
- b) In 15 days
- c) In 30 days
- d) 180 days

22- What best describes the term “competent person”?

- a) A person with skills to use power tools.
- b) A person with carpentry skills.
- c) A person capable of identifying hazards or dangers in working conditions.
- d) A person with an architectural degree.

23- In a sprinkled restaurant, what is the maximum length or exit access?

- a) 195”
- b) 220”
- c) 250”
- d) 300”

24- All of the following are not considered habitable spaces EXCEPT?

- a) Bathrooms
- b) Kitchens
- c) Storage space
- d) Closet

25- A porch more than \_\_\_\_ inches above grade must be provided with railings.

- a) 28”
- b) 30”
- c) 36”
- d) 38”

26- Concrete slabs below grade require a \_\_\_\_\_ base course of sand, gravel or crushed stone if the existing base isn't a group soil 1.

- a) 4”
- b) 5”
- c) 6”
- d) 3”

27- What is the minimum height of a chimney located at the ridge of a roof?

- a) 2 feet
- b) 16 inches
- c) 3 feet
- d) 18 inches



28- The firebox for masonry fireplaces shall not be less than \_\_\_ in depth.

- a) 17"
- b) 18"
- c) 19"
- d) 20"

29- When a ladder is used to gain access to the roof, it should extend above the roof eave:

- a) 1 foot
- b) 2 feet
- c) 3 feet
- d) 4 feet

30- A ladder should be placed against the building so that the lower end is approximately:

- a)  $\frac{1}{3}$  the length of the ladder
- b)  $\frac{1}{4}$  the length of the ladder
- c)  $\frac{1}{5}$  the length of the ladder
- d) OSHA has no rules

31- OSHA requires a minimum of one \_\_\_\_\_ fire extinguisher for each 3,000 SqFt of building area. The fire extinguisher must be available within 100 feet of any point.

- a) 4C
- b) 2A
- c) Light duty
- d) Working

32- 1 and 2 family dwelling require a sleeping room window on the ground level floor and shall have a minimum opening of:

- a) 5.7 SqFt
- b) 4.0 SqFt
- c) 5.0 SqFt
- d) No minimum on the ground floor

33- All egress door above the first floor must have:

- a) Clear width of not less than 32 inches
- b) A minimum net clear opening of 20" width or 24" height
- c) A sill height not more than 44 inches above the floor or ground
- d) All The above

34- In 1 and 2 family dwellings, habitable rooms' glazing (window area) must be not less than what percent of the floor area?

- a) 6%
- b) 8%
- c) 10%
- d) All the above



35- What must be done where the roof intersects with a wall?

- a) Shingle up to the wall
- b) Use metal step flashing between the shingles.
- c) Use felt paper.
- d) Nothing, this is not a problem.

36- Interior spaces intended for human occupancy shall be provided with active or passive space heating systems capable of maintaining an indoor temperature of not less than \_\_\_\_ at a point 3 feet(914 mm) above the floor on the design heating day.

- a) 60 degrees F
- b) 62 degrees F
- c) 68 degrees F
- d) 72 degrees F

37- A cricket is used:

- a) To join a dormer to a roof
- b) between the roof and a chimney
- c) To join a roof valley
- d) To strengthen a header

38- When framing an opening in a floor, an opening exceeding \_\_\_\_ requires the header and trimmer joist to be doubled.

- a) 1 foot
- b) 2 feet
- c) 3 feet
- d) 4 feet

39- In a single-family dwelling what is the requirement for fastening the ceiling joist to a top plate?

- a) 2-6d
- b) 3-8d
- c) 2-12d
- d) 1-16d

40- If you have a 12:12 roof pitch and a chimney width of 36 inches, what is the required height of a cricket in a single family dwelling?

- a) 15 inches
- b) 16 inches
- c) 17 inches
- d) 18 inches



41- The minimum hallway width in a single-family dwelling is:

- a) 30"
- b) 32"
- c) 36"
- d) 38"

42- What is the minimum fastening of the soleplate to joist or blocking at braced wall panels?

- a) 2-16d nails 16" ; o.c.
- b) 3-16 nails 16" ; o.c.
- c) 16d nails 16" ; o.c.
- d) none of the above

43- Construction Supervisor license shall expire \_\_\_\_\_ from the date of issuance, which shall be noted on said license and may be renewed.

- a) 1 year
- b) 2 years
- c) 3 years
- d) 5 years

44- A manual fire alarm boxes shall be located not more than 5 feet from:

- a) From the entrance of each exit
- b) From the elevator
- c) From the escalator
- d) None of the above

45- Additional fire alarm boxes shall be located so that exit access travel distance to the nearest box does not exceed:

- a) 100 feet
- b) 200 feet
- c) 300 feet
- d) 500 feet

46- A boiler room/furnace room with an area of over 500 SqFt and any fuel fired equipment over 400.000 BTU is required to have:

- a) Ventilation
- b) Extra SqFt
- c) Two exit
- d) None of the above



47- Walls, partitions and floor/ceiling assemblies separating dwelling units and sleeping units from each other or from public areas shall have a sound transmission class of not less than\_\_\_\_, or not less than\_\_\_\_ if field tested.

- a) 35,45
- b) 30,55
- c) 50,45
- d) 40,55

48- A new restaurant (occupancy Group A-2) must have an automatic sprinkler system if:

- a) Fire area exceeds 4.000 SqFt.
- b) Fire area exceeds 5.000 SqFt.
- c) Fire area exceeds 6.000 SqFt.
- d) Fire area exceeds 7.000 SqFt.

49- In a 1 and 2 family dwelling anchor bolts shall be embedded into at least \_\_\_\_ of concrete or grouted masonry.

- a) 7"
- b) 8"
- c) 9"
- d) 10"

50- What is the maximum length of exit access travel in a non-sprinkler system in a Group B occupancy?

- a) 200 feet
- b) 300 feet
- c) 350 feet
- d) 400 feet

51- Where are two or more flues located in the same chimney masonry wythes shall be not less than?

- a) 4"
- b) 5"
- c) 7"
- d) 6"

52- The handrail is required in a set of stairs in a single-family dwelling with:

- a) 2 steps
- b) 3steps
- c) 4 steps
- d) 5 steps





53- Flammable liquids should not be stored in areas used for exits, stairways or normally used for the safe passage of people. What is the maximum size of gallons flammable liquids shall be stored in a room outside of the approval storage cabinet.

- a) 25 gallons
- b) 30 gallons
- c) 35 gallons
- d) 40 gallons

54- A childcare that provides care on less than 24 hours basis for more than five children 2 years old of age or less shall be classified as use group:

- a) A
- b) B
- c) E
- d) H

55- Which type of construction best describes a structure consisting of an exterior wall constructed of noncombustible materials and the interior building elements are of solid or laminated wood without concealed spaces?

- a) Type I
- b) Type II
- c) Type IV
- d) Type V

56- In a fire separation, a Group H3 occupancy required to be in a detached building shall be located a minimum of how many feet from the lot line?

- a) 25
- b) 40
- c) 50
- d) 100

57- Wall, partitions and floor/ceiling assemblies separating dwelling units and sleeping units from each other or from public or service areas shall have a sound transmission class of:

- a) 50
- b) 45
- c) 35
- d) 55

58- Appliances shall be accessible for inspection, service, repair and replacement without removing permanent construction at what level of working space shall be provided.

- a) 30x30
- b) 40x40
- c) 50x50
- d) 20x20



59- How many days a person making or causing an excavation shall provide written notice to the owners of adjoining buildings, notification shall be delivered not less than:

- a) 24 hours
- b) 5 days
- c) 10 days
- d) 15 days

60- Spray foam insulation shall comply as defined in ASTM C 1029.1507.14.0 application and accordance with manufacturer's instructions following the application of the foam:

- a) No less than 3 hours nor more than 60 hours
- b) No less than 2 hours nor more than 72 hours
- c) No less than 4 hours nor more than 48 hours
- d) No specific time needed

61- How to apply vapor retarder in an unvented attic?

- a) Installed on the ceiling side.
- b) Installed in the warm-in-winter side of the ceiling.
- c) Installed in the winter-in-warm side of the ceiling.
- d) Installed in the ceiling side of vented attic.

62- What is the minimum required thickness of a mortar joint in a masonry unit wall in a one- or two-family dwelling?

- a)  $\frac{1}{2}$
- b)  $\frac{2}{3}$
- c)  $\frac{3}{8}$
- d)  $\frac{1}{4}$

63- What is the name of the agency and standards that govern the use of structural concrete?

- a) ASTM 1318
- b) ACI 1318
- c) ACI 318-14
- d) ASTM 318

64- What is the minimum depth anchor bolts must be embedded in a block foundation wall in a 1 or 2 family dwelling?

- a) 8 in.
- b) 6 in.
- c) 15 in.
- d) 7 in.



65- What is the proper use group classification of Gillette Stadium?

- a) A
- b) A5
- c) B
- d) I

66- When working in a trench a ladder to exit the trench must always be a maximum of how many feet away?

- a) 4 feet
- b) 8 feet
- c) 20 feet
- d) 25 feet

67- Where should a lunchroom facility at an abatement project be located?

- a) Near the bathroom
- b) Especial room in the storage
- c) As far away as practical
- d) In the kitchen

68- At what trench depth are ladders required to exit the trench?

- a) 4 feet
- b) 6 feet
- c) 20 feet
- d) 25 feet

69- In climate Zones 6, 7 and 8, a Class I or II vapor retarder is installed.

- a) No specific method required
- b) On the war-in-winter side of the space
- c) On the opposite side of the stamp
- d) In a vertical position

70- Which of the following is NOT true regarding manual fire alarm boxes?

- a) Shall be located within five feet of the entrance to an exit.
- b) Shall be located on each floor including basements.
- c) Shall be not less than 42 inches height.
- d) Shall be red in color.

71- All supply and return air ducts and plenums shall be insulated where located in unconditioned spaces and were located outside the building in Climate zone 5 with a minimum of?

- a) R-6
- b) R-12
- c) R-19
- d) R-20



72- According to the IECC Buildings shall be protected with an enclosed vestibule, all the below statements are true except:

- a) All doors opening into and out of the vestibule with self-closing devices.
- b) Vestibules should be designed for the interior and exterior doors to open at same time.
- c) Doors that open directly from a space less than 3,000 square feet.
- d) Revolving doors in building entrances shall not eliminate the requirement that a vestibule be provided on any door adjacent to revolving doors.

73- A Building Official is:

- a) A Police officer in charge of Community security.
- b) A Firefighter on duty
- c) Officer or authority charged with enforcements of building code
- d) The mayor of the city

74- What is the height to the top of a 52 feet wide roof with 6:12 slope

- a) 15
- b) 12
- c) 13
- d) 16

75- Regarding air space, the wall protection covering two walls in a corner shall be open at the bottom and top edges not less than:

- a)  $\frac{1}{2}$  inch
- b)  $\frac{1}{4}$  inch
- c)  $\frac{1}{8}$  inch
- d) 1 inch