1 **A non-loadbearing partition 5.6m in length and 2.4m in height should have a minimum thickness of**

(A) 48mm

(B) 60mm

(C) 100mm

(D) 112mm

(E) 140mm

Answer:
(B)60mm

2 **Bricks used in the construction of partitions often have grooved surfaces to**

(A) Reduce their weight

(B) Improve their sound absorption

(C) Improve their strength

(D) Improve their appearance

(E) Provide a key for plaster

Answer:
(E) Provide a key for plaster

3 **Expanded metal fabric is used to**

(A) Strengthen the connection between block partitions at their junction

(B) Strengthen the horizontal joints in brick partitions

(C) Strengthen the vertical joints in block partitions

(D) Resist thermal movement between adjoining solid partitions

(E) Resist moisture movement between adjoining solid partitions

Answer:
(A) Strengthen the connection between block partitions at their junction

4 **Solid partitions to upper floors can be supported by**

(A) Building them in stretcher bond

Answer:

(B) Building them over a rolled steel joist

(C) Bonding them into the external walls

(D) Locating them to coincide with ceiling joists

(E) Building them parallel to the floor boards

Answer:
(B) Building them over a rolled steel joist

5

A nogging is incorporated into a timber stud partition to

(A) Connect the studs to the floor

(B) Connect the studs to the ceiling

(C) Connect the studs to the external wall

(D) Stiffen the studs in their length

(E) Provide the correct spacing between the studs

Answer:
(D) Stiffen the studs in their length

6

One advantage of metal stud partitions is

(A) They have a low thermal transmittance coefficient

(B) They have a high fire resistance

(C) They have a low sound absorption coefficient

(D) They have high tensile strength

(E) They have a low density

Answer:
(E) They have a low density

7

Solid separating walls need to be constructed of materials having

(A) A maximum thermal conductance coefficient of 0.1 W/m²K

(B) A maximum compressive strength of 1.0N/mm²

(C) A minimum density of 600kg/m³

Answer:
(B) A maximum compressive strength of 1.0N/mm²

(D) A maximum sound reduction of 30dB over the frequency range of 100–3150 Hz

(E) A minimum moisture content of 15%

8 **Loadbearing ground floor partitions usually transfer their load to the ground beneath by**

(A) Using a rolled steel joist spanning between the external walls

(B) Using a prestressed concrete I beam spanning between the external walls

(C) Using a timber wall plate bearing onto a sleeper wall

(D) Thickening the ground floor slab

(E) Constructing a raft slab foundation

Answer:
(D) Thickening the ground floor slab

9 **For fire resistance purposes, a party wall should be built within**

(A) 25mm of the inside of the external wall

(B) 15mm of the inside of the external wall

(C) 25mm of the top of the roof truss

(D) 15mm of the top of the roof truss

(E) 10m of the building boundary

Answer:
(C) 25mm of the top of the roof truss

10 **Hollow lightweight partitions often incorporate insulation to improve their**

(A) Thermal performance

(B) Acoustic performance

(C) Fire resistance

(D) Impact resistance

(E) Flexural resonance

Answer:
(B) Acoustic performance