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23/6/26 Ex - 10 (D)

Q.7

Faces = 8

Vertices = 12

Edges = 18

Euler's Formala :- $F + V - E = 2$

$8 + 12 - 18 = 2$

$20 - 18 = 2$

∴ Euler's formala is verified.

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* Note

→ Surface of the solid (3D shapes)

There are two types of surfaces of 3D shapes.

1) Plane surface :- Flat surface is called a plane surface.

{Example :- Book, geometry box}

2) Curved surface :- The surface which is not plane is called a curved surface.

{ Example :- Globe, Egg }

* There are some objects which have both the surface, plane as well as curved.

{ Example :- A candle, a battery cell, etc }

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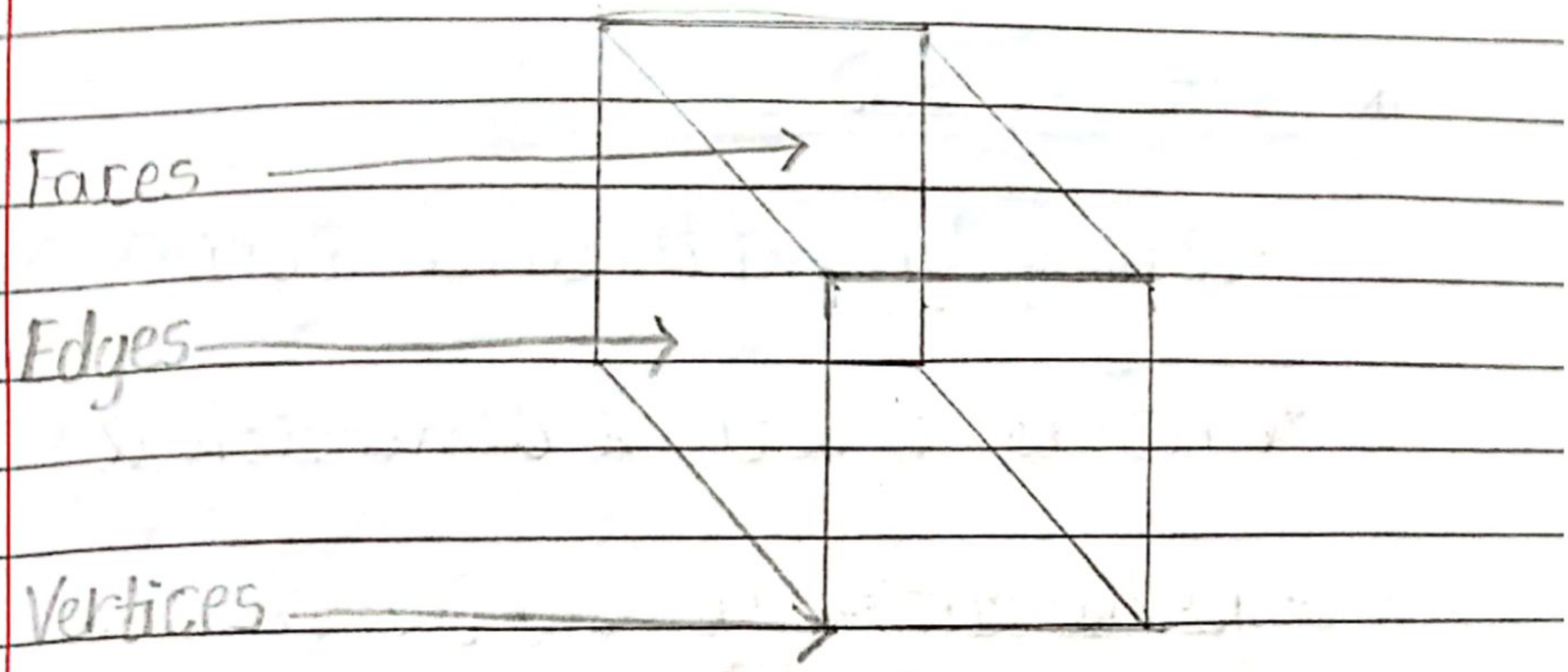

Vertices are the points

Edges are the lines (straight or curved)

Faces are the surfaces (plane or curved)

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* Nets of 3D shapes

Prisms, Pyramids and Cylinders

A net is a 2D (2 dimensional) representation of a 3D (3 dimensional) figure. It is composed of connected flat shapes that, when folded along their edges, from the surface of the 3D solid.

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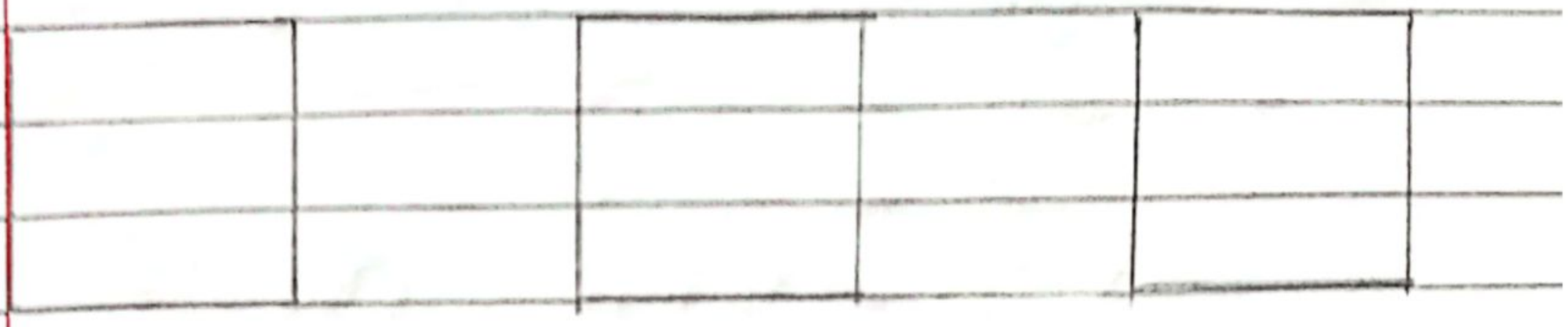
Ex (10-E)

Q.4

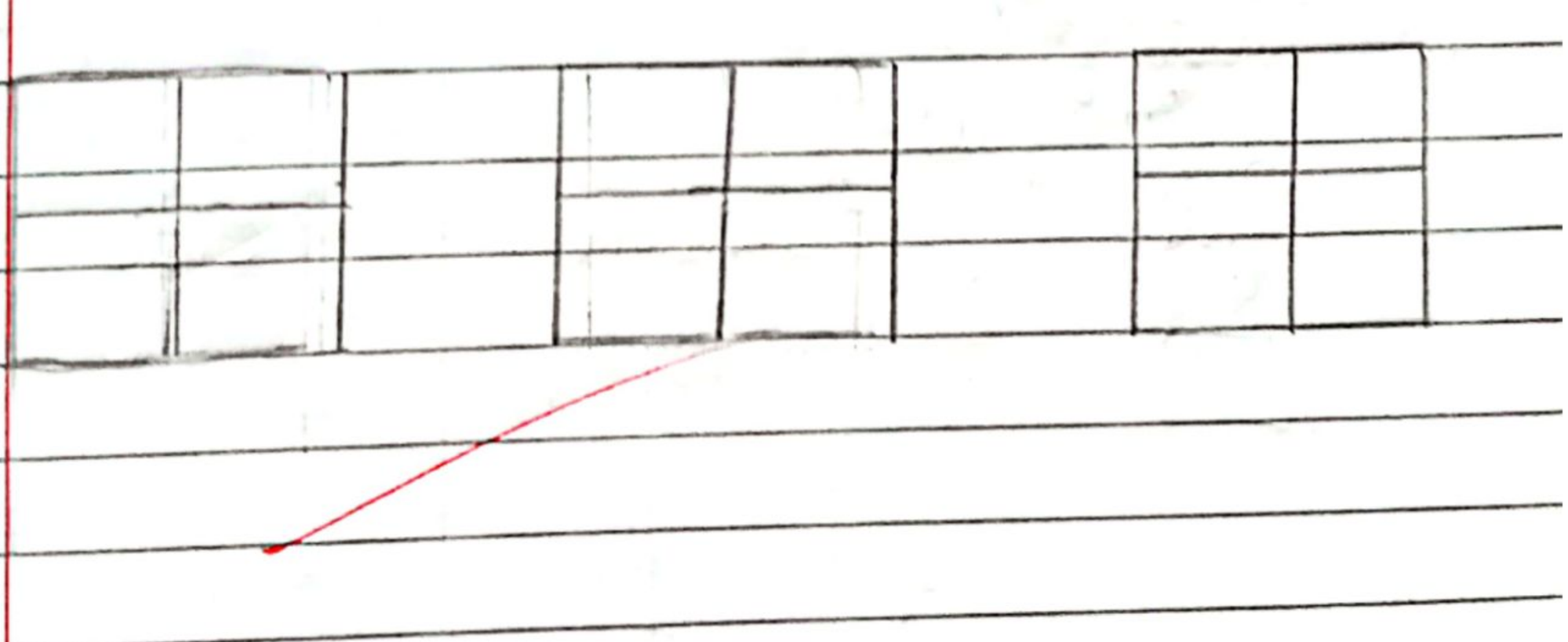
Plan Elevation Side view

a)



b)

c)



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Let us assess

*

Q.06

a) 6

b) ABCG, FHDE, AFEG, BHDC

c) ABCG

d) ABHF, GCDE

Q.08 Rectangular

Plan Elevation Side