1. What is the length of the central line AB?
   A. 4 cm
   B. 6 cm
   C. 8 cm
   D. 10 cm (C)

Explanation : Step (i) says the central line AB is 8 cm long.

2. Point X is marked on AB such that:
   A. AX = 2 cm, XB = 6 cm
   B. AX = XB = 4 cm
   C. AX = XB = 2 cm
   D. AX = 3 cm, XB = 5 cm (B)

Explanation: Since X is the midpoint of AB, AX and XB are both 4 cm.

3. Point C is marked on AX so that:
   A. AC = CX = 1 cm
   B. AC = CX = 2 cm
   C. AC = CX = 4 cm
   D. AC = 2 cm, CX = 1 cm (B)

Explanation: Step (iii) clearly says AC = CX = 2 cm.

4. Point D is marked on XB so that:
   A. XD = DB = 1 cm
   B. XD = DB = 2 cm
   C. XD = DB = 3 cm
   D. XD = DB = 4 cm (B)

Explanation: The chapter states XD = DB = 2 cm.

5. At which points are perpendiculars drawn?
   A. A and B
   B. X and B
   C. C and D
   D. A and X (C)

Explanation : Step (iv) says to draw perpendiculars at points C and D.

6. What lengths are equal in step (v)?
   A. AX = XB = 1 cm
   B. CE = DF = 1 cm
   C. AC = DB = 1 cm
   D. AE = BF = 1 cm (B)

Explanation : Step (v) says CE = DF = 1 cm.

7. Which line segments are joined in step (v)?
   A. AC and DB
   B. CE and DF
   C. AE and BF
   D. AB and CD (C)

Explanation : The construction says to join AE and BF.

8. With E as centre and radius equal to AE, what is drawn?
   A. A full circle from A to B
   B. An arc from A to X
   C. A semicircle from C to D
   D. A straight line from A to X (B)

Explanation : Step (vi) says to draw an arc from A to X using E as centre and radius AE.

9. With F as centre and radius equal to BF, what is drawn?
   A. An arc from B to X
   B. A circle at X
   C. A line from B to X
   D. A semicircle above AB (A)

Explanation : Step (vi) says to draw another arc from B to X using F as centre and radius BF.

10. What is the main challenge mentioned in Question 3?
    A. To make AB longer
    B. To draw a full circle
    C. To get both waves identical
    D. To find the midpoint of AB (C)

Explanation : The question itself says the challenge is to make both waves identical.