

- (a) Name the parts labelled **A, B, E** and **F**. (4 marks)

**A** .....

**B** .....

**E** .....

**F** .....

- (b) Use arrows to show the direction in which blood flows in the heart. (2 marks)

- (c) Give a reason why the wall of chamber **C** is thicker than chamber **D**. (2 marks)

Candidates were required to name parts of the mammalian heart showing circulation of blood in the heart, giving a reason why the wall of the left ventricle is thicker than the wall of the right ventricle.

#### Weakness

Majority of candidates failed to see the necessity for the left ventricle to exert more pressure than the right ventricle.

#### Expected Response

- a)    **A**    -    Pulmonary vein;  
      **B**    -    Left atrium (auricle);  
      **C**    -    Tricuspid valve;  
      **D**    -    Pulmonary artery;
- b)    Correct direction of arrows
- Left side;  
      -    Right side;
- c)    The left ventricle 'C' pumps blood a longer distance/to all parts of the body; while the right ventricle 'D' pumps blood a shorter distance to the lungs;

#### Question 14

- (a)    What is the difference between Darwinian and Lamarckian theories of evolution? (2 marks)
- (b)    What is meant by the following terms? Give an example in each case.