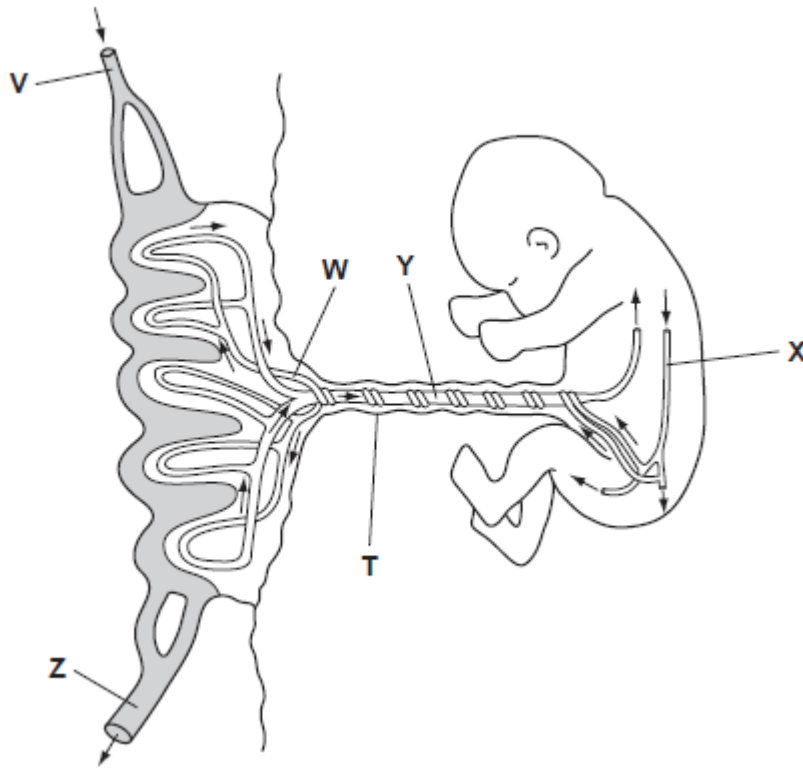


4. The figure below shows the structure of the placenta and parts of the fetal and maternal circulatory system.



- (a) Name parts labelled **W**, **Y** and **T**, **V** and **Z**.
- (b) Identify the blood vessels that carry oxygenated blood in the,
 - (i) fetal circulation
 - (ii) maternal circulation
- (c) (i) Describe the exchanges of substances that occur between the maternal blood and fetal blood.
 - (ii) How is the placenta adapted for the exchanges above?
- (d) The blood supply of the mother and of the fetus are kept separate from each other at the placenta. Suggest and explain reasons why these two blood systems must not be joined together.

VICTORIA HIGH SCHOOL, IGANGA.

‘O’ LEVEL BIOLOGY SEMINAR QUESTIONS BY BRONSTED LAWRY ARUM