

### 3.21.2 Drawing and Design Paper 2 (449/2)

#### DESIGN PROBLEM: (40 marks)

With the increase in use of desk top computers, schools have a challenge of effective utilization of space both as classrooms and computer laboratories. This has led to high maintenance costs, caused by frequent movements of the equipment.

Design a computer desk considering the following:

- (i) it should accommodate the monitor, central processing unit, keyboard and the mouse;
- (ii) it should be used for other learning activities;
- (iii) there should be minimal movement of the components in (i) above;
- (iv) the components should be safely stored when not in use.

#### REQUIREMENTS

- (a) Make freehand sketches of **TWO** possible designs. (8 marks)
- (b) Select **ONE** of the designs in (a) above and make a refined labelled pictorial sketch. (12 marks)
- (c) Draw detailed exploded views of the mechanisms in considerations (iii) and (iv) above. (12 marks)
- (d) List **FOUR** different materials used and state **ONE** reason for the choice of each. (6 marks)
- (e) Give **FOUR** possible methods of finishing the desk. (2 marks)