

5. Arguments, error handling and OOP

- (a) What is the difference between passing by value and by reference? Which of the two mechanisms is used for passing arrays and why? [4]
- (b) Describe Java's approach to exception handling. You should include in your answer:
 - (i) a description of the supporting classes in the Java API,
 - (ii) the three fundamental components of error handling in Java,
 - (iii) illustrative code in which three type of exceptions can occur,
 - (iv) an explanation of the **finally** construct.[8]
- (c) Object oriented programming is based on a number of defining principles. List what they are and give a brief explanation of each. [8]