## COMPUTER SCIENCE TRIPOS Part IA – 2020 – Paper 2

## 6 Software and Security Engineering (rja14)

(a) What is	fault tree and	alysis?	[4 marks]
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- (b) What is failure modes and effects analysis? [4 marks]
- (c) Discuss the likely shortcomings of failure modes and effects analysis with respect to *either* the Therac-25 accidents or the Boeing 737 Max accidents. [6 marks]
- (d) Might the accidents have been avoided if the safety assessment had been based on fault tree analysis instead? [6 marks]