# Real Time Operating System [ICE 4060] FISAC 1

1. What is the difference between synchronous and asynchronous I/O? What are the implications of these two types of I/O for real time applications? Which one is better suited for use in real time applications? Justify with suitable reasons. [CO3, PO2, BL2, 2.5M]

2. Describe an open software system. What are its advantages compared to a closed software system for real-time application development? Does an open software mandate portability of the executable files across different platforms? [CO3, PO2, BL2, 2.5M]

3. Consider any Real time operating system of your choice and write a note on it, covering the following points: [CO4, PO2, BL3, 5M]

A. Overview (When it was introduced. Latest version available now)
B. Features (ex: Bluetooth, USB, files supported etc)
C. Protocols used
D. Architecture used along with information about the processor (32 bit , 64 bit etc)
E. Hardware supported (Also specifications of memory, clock speed etc)
F. Applications (any 1 in detail)

(Relevant Figures/tables/ block diagrams may be added)

**NOTE:**
**1. ONLY HANDWRITTEN SUBMISSIONS ARE ACCEPTED**
**2. MARKS ARE CONSIDERED FOR NEATNESS AND ON TIME SUBMISSION**