Answer question Q.1. AND any TWO other questions.
Question 1 carries 40 marks. All other questions carry 30 marks each.
Q.1. Using the data provided in Table 1 and the Activity-on-Node network technique:

i. Prepare a network diagram which clearly indicates, the earliest and latest start times; the earliest and latest finish times, and float for all activities. (16 marks)

ii. Calculate the shortest time that it will take to complete this project. (4 marks)

iii. State the activities that form the critical path and illustrated that path on your network diagram. (8 marks)

(b) Clarify the difference between the Gantt chart and the PERT diagram. In your answer indicate advantages that the Gantt chart has over the PERT diagram. (12 marks)

Q.2. (a) Explain what you understand by Information Systems risk with particular reference to how it impacts the project manager. (20 marks)

(b) Clarify how you would implement an Information Systems risk management strategy. (10 marks)
Q.3. A team of young innovative IT professionals have formed a new software company to develop state-of-the-art software solutions. They are aware that their company needs to comply with international standards relating to their project management.

As a consultant to this new company prepare a comprehensive report for these young professionals which outlines how international standards can be used in the best interest of this new company. (30 marks)

Q.4. (a) Explain the term *project control*. (3 marks)

(b) Discuss in detail FIVE control structures that the project manager should implement for the successful completion of a new information systems development project. (15 marks)

(c) Explain how historical data can be used by a project manager for control purposes during the development life cycle. (12 marks)