- 1. What are the main goals of a successful data communications?
- 2. Explain the difference between analogue and digital data.
- 3. Explain why radio communications is a half-duplex system.
- 4. How long would it take to transfer 200 MB data at 80 Mbs?
- 5. Describe the role of a communications modem.
- 6. Describe the role of the error control part of message header.
- 7. Describe a method of recovery of bad data received.
- 8. Suggest why ring topology prevents collisions.
- 9. A switch can selectively target destinations. Explain.
- 10. What is meant by broadband transmission?
- 11. How do microcontrollers process analogue signals?
- 12. Where is a microcontroller's program code stored?
- 13. Explain why microcontroller timers may be needed.
- 14. Identify one use of PWM timer.
- 15. What is sampling period of 20 KHz sampling frequency?
- 16. Explain what a vectored interrupt is.
- 17. What is the primary function of watchdog timer?
- 18. Describe two characteristics of a real-time OS.
- 19. What is pre-emptive priority task scheduling?
- 20. How does a microcontroller wake up from sleep?