

6. Insert the TP type:

Twisted-pair cables:	Cat3	Cat4	Cat5
Is used primarily when implementing token-based or 10base-T/100base-T networks. It is certified at 16Mbps and consists of four twisted wires. It is rated to 20MHz			
Is the most popular Ethernet cabling category. It is capable of carrying data at rates up to 100Mbps and is used for 100base-T and 10base-T networks. It is rated to 100MHz.			
Voice-grade cable. It is used primarily in older Ethernet 10base-T LANs and is certified to carry data at 10Mbps. It is rated to 16MHz.			

7. A 20dBm GSM signal at the output of a portable unit arrives at the base station with 110 dB of attenuation. What is the received signal level in:

i) dBm

ii) dBW

iii) watts ?

8. Insert the medium type: TP, Coax, or Fiber

<i>Medium</i>	<i>Advantages</i>	<i>Disadvantages</i>
	Voice, data and video, fast, long distance	difficult to install, limited to point-to-point, expensive
	Low cost, easy to install	not secure, worst noise immunity
	Relatively fast on short runs	not secure, poor noise immunity

9. A 100 kHz base-band channel is used by a digital transmission system. Ideal pulses are sent at the Nyquist rate, and the pulses can take 16 levels. What is the bit rate of the system?

10. State 2 good points and 2 bad points about this course