Please answer all questions. Take a copy of your answers with you and enter them on the web. Your marks should be ready by 10 May 2009. (Abbrev:NOTA = None of the above)

1. The measurement of voltage across a Ethernet line needs ..... oscilloscope probes (a) one (b) two (c) three (d) four

2. When a preamble from one node is on the medium, another preamble .... be present (a) should not (b) can (c) will (d) has to

3. Frame Relay ...... (a) cannot support CBR traffic (b) provide layer 2 services to ATM (c) does not provide bounded delay (d) is a agorasynhronous service.

4. The ..... layer offers a good example of .... (a) session, congestion management (b) IP, flow management (c) TCP, inverse muxing (d) IP, direct multiplexing

5. If the congestion notification is not explicit,... (a) nothing happens (b) congestion happens (c) congestion control is delayed (d) packet drops lead to quenching

6. If the AU-PTR in SDH is damaged, it is rectified at the ... regenerator ... multiplexer (a) next, or (b) next, but not the next (c) not the next, but the next (d) neither the next, nor the next

7. The function of the Control Plane in the Session Layer of SIP is the same as the Control Plane of ...... (a) any BISDN architecture (b) ISDN (c) NISDN (d) L2 of ISDN

8. An ATM cloud is a (a) M/M/k queue (b) M/1/1 queue (c) network of tandem queues (d) NOTA

9. To evaluate the throughput, one .... the data rate (a) must know (b) need not know (c) should first estimate (d) should normalize against the

10. An example of a peer to peer network is 802.__ (a) .15.4 (b) .11 (c) .16 (d) .21

11. Direct multiplexing is a feature of (a) PDH (b) SDH (c) both PDH and SDH (d) DTH

12. BIP-24 prevents (a) corruption due to burst errors (b) corruption due to cyclic error checks (c) parity miscalculation (d) wrong frame tag identification

13. The deep-core network does (a) λ-switching (b) λ-reuse (c) λ-interchange (d) all of the above

14. On the ITU-T grid, ... wavelengths are possible (a) 8 (b) 32 (c) 8 and 32 simultaneously i.e 40 wavelenths (d) 8 or 32

15. The telecom management protocol most used is (a) SNMP (b) RMON (c) CMOT (d) OpenVIEW

16. The interface between the edge and core network can be (a) UNI (b) PNNI (c) NNI (d) none of the above

17. The first conversion in a NGN is a (a) network-packet (b) encapsulation (c) ingress management (d) signaling gateway

18. The IP-core and PSTN functions are merged in (a) PLMN (b) PSTN (c) FR (d) MPLS

19. In the SDH, ... is effectively combated (a) stratum clock manufacturing faults (b) jitter (c) asynchronous data wander (d) dc drift

20. SS7-to-IP gateways are needed in (a) SIGTRAN (b) SIGNUM (c) SIG-NGN (d) SIGNNI

21. Write an essay (in the remaining blank space) on the thought : "IP networks may be the only networks we need."

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

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