

**INDIA METEOROLOGICAL
DEPARTMENT
QUESTION BANK
OF
ADVANCED METEOROLOGICAL
TRAINING COURSE (AMTC)
SEMESTER-I EXAMINATION
BASED ON 176-181 BATCHES
(2015-2021)**

**PAPER-VI: MET.
TELECOMMUNICATIONS**

PART B

India Meteorological Department
Meteorological Training Institute
Advanced Meteorological Training Course
SEMISTER-I (compiled from Batch 176-181)

PAPER-VI : MET. TELECOMMUNICATIONS & INFORMATION SYSTEM (PART-B)

Q.1 Write the full form of followings:

1. OSI stands for _____
2. VPN stands for _____
3. Optical fibre works on the principle of _____
4. 255.255.0.0 subnet mask belongs to Class_____Network
5. GTS stands for ----- and MTN stands for -----

6. AMDCN stands for_____and WIGOS stands for_____
7. DAR stands for_____and WIGOS stands for_____
8. DHCP stand for _____and NAT stands for _____ .
9. GPRS is used for _____ Transmission whereas GSM is used for _____Transmission.
10. GPRS is used for _____ Transmission whereas GSM is used for _____Transmission.
11. MPLS VPN stands for ----- and RMDCN stands for -----
12. MPLS stand for _____and GTS stands for _____ .
13. NetCDF format used for _____image and HDF5 format used for _____image.
14. The data transmission rate of VSAT ranges from _____
15. The function of GISC is_____
16. WIS stands for----- and GISC stands for -----

Q.2 Answer the following:

1. Advantages of optical fibre communication
2. Briefly explain about IPV4 and IPV6 addressing scheme.

3. Briefly explain about NKN.
4. Briefly explain about VPN and MPLS protocol
5. Briefly explain the difference between Hub, Switch and Router
6. Central Information Processing system (CIPS)
7. Difference between hub, switch and router
8. Difference between IPV4 and IPV6
9. Difference between LAN and WAN
10. Difference between network Hub and network switch
11. Explain various type of data format used for Meteorological communication
12. Fibre optic communication
13. Difference between Switch, Hub and Router
14. Global Information System Center (GISC)
15. Name the layers of TCP/IP architecture.
16. What are the advantages of Optical fiber?
17. What are the data Formats used for metrological data transmission? Briefly Explain.
18. What are the main differences among LAN, MAN, WAN?
19. What are the physical media used for communication?
20. What is MODEM?
21. What is the function of WIS centers (NC, GISC and DCPC).
22. WMO Information System

Q .3 Write full forms of following abbreviations.

1. AMSS and RTH
2. WWW and GTS
3. GISC and DCPC
4. MPLS and VPN
5. WIGOS