

PSG COLLEGE OF ARTS & SCIENCE  
(AUTONOMOUS)  
MCA DEGREE EXAMINATION MAY 2022  
(Fifth Semester)

Branch – COMPUTER APPLICATIONS

NETWORK MANAGEMENT

Time: Three Hours

Maximum: 75 Marks

SECTION-A (10 Marks)

Answer ALL questions

ALL questions carry EQUAL marks (10 x 1 = 10)

1. SNMP is the framework for managing devices in an internet using the  
a TCP/IP  
b UDP  
c SMTP  
d None of the above
2. To define the data type, SMI uses fundamental ..... definitions and adds some new definitions.  
a.AMS.1  
b. ASN.1  
c. ASN.2  
d. None of the above
3. MIB is a collection of groups of objects that can be managed by \_\_\_\_\_.  
a) SMTP  
b) UDP  
c) SNMP  
d) TCP/IP
4. A network management system can be divided into \_\_\_\_\_.  
a) three categories  
b) five broad categories  
c) seven broad categories  
d) ten broad categories
5. Performance management is closely related to \_\_\_\_\_.  
a) Proactive Fault Management  
b) Fault management  
c) Reactive Fault Management  
d) Preventive Fault Management
6. An Enhanced Version of SNMPv1 is \_\_\_\_\_.  
a.SNMPv1  
b. AdvSNMP  
c. SNMPv2  
d. none of the above
7. HFC contains \_\_\_\_\_.  
a. Fibre cable  
b. Coaxial cable  
c. A combination of Fibre cable and Coaxial cable  
d. Twisted Pair Cable
8. Structure of Management Information (SMI), is the guideline of \_\_\_\_\_.  
a. HTTP  
b. SNMP  
c. URL  
d. MIB
9. To use a Simple Network Management System, we need \_\_\_\_\_.  
a. Servers  
b. IP  
c. Protocols  
d. Rules
10. Network that are made up of hundreds and sometimes thousands of components are known as \_\_\_\_\_.  
a. Complex Network  
b. Hybrid Network  
c. Component Network  
d. All of the above

Cont...

**SECTION - B (25 Marks)**

Answer ALL Questions

ALL Questions Carry EQUAL Marks (5 x 5 = 25)

11. a. Explain Goal of Network Management  
OR  
b. Explain Network Management Standards.
12. a. Analyze history of SNMP Management  
OR  
b. Explain ASN.1 Data types.
13. a. With a neat diagram, explain the RMON1 group and functions.  
OR  
b. Explain the ATM Remote Monitoring.
14. a. Sketch the TMN Architecture.  
OR  
b. Explain TMN Conceptual Model.
15. a. Write the five steps process involved in fault management.  
OR  
b. Analyze web based enterprise management.

**SECTION - C (40 Marks)**

Answer ALL Questions

ALL Questions Carry EQUAL Marks (5 x 8 = 40)

**Question Number 16 is compulsory – Case Study**

16. Construct a case study on Broadband Network Management Network.
17. a. Illustrate the management information model of network.  
OR  
b. Analyze the Communication and Functional Models of SNMPv1 Network management.
18. a. Difference between RMON1 & RMON2.  
OR  
b. Explain HFC network with a neat diagram.
19. a. Evaluate Telecommunication Management Network.  
OR  
b. Explain Network Management Tools and System.
20. a. Determine Network Management Applications.  
OR  
b. Explain Windows management instrumentation.

Z-Z-Z

END