



(Following Paper ID and Roll No. to be filled in your Answer Book)

PAPER ID : 270132

Roll No.

1	4	0	3	2	7	0	0	9	3
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M.B.A.

(SEM. I) (ODD SEM.) THEORY
EXAMINATION, 2014-15
**FUNDAMENTAL OF COMPUTERS &
INFORMATION SYSTEM**

Time : 3 Hours]

[Total Marks : 100

PART - I

Attempt any four : (5 marks each)

- 1 Explain Printing Devices and Voice Speech Devices.
- 2 Define Networks. Explain types of networks. Explain.
- 3 Explain Transaction Process System and Decision Support System.
- 4 Explain Feasibility Analysis and Investigation Phase.
- 5 Explain Customer Relationship Management. What are the different CRM System Solutions ?
- 6 Explain Compiler, Interpreter and Assembler.

Prior to their implementation of a Meru wireless LAN, Greene County Public Schools (GCPS) had a wireless network system that wasn't "making the grade." Their legacy system consisted of mobile carts within each of the schools which were equipped with low-end Linksys wireless routers. Because of this system configuration, wireless access was only active within the rooms where the carts were connected.

Operating under the old system, teachers found the process of connecting a class to the wireless carts difficult and disruptive. At times, they were unable to connect to the devices correctly. The cumbersome nature of the process led to dampened enthusiasm for the system which adversely affected GCPS' efforts to use the technology for instructional purposes.

As GCPS' legacy wireless network grew over time, it became increasingly more disparate. Consequently, the IT team found themselves lacking an efficient way to implement system management and controls—including preventing the infiltration of unauthorized devices. At the same time, with the number of users steadily growing, finding an effective way to segregate student and public access from the private faculty/staff wireless network was also becoming a priority. With no single point of management, the IT staff was spending increasing amounts of time performing hands-on maintenance and troubleshooting of individual components throughout all the different school buildings. They also had to find a way to abate the growing number of students and faculty using their own personal wireless devices on the school network (laptops, mobile phones and other hand held devices). These critical issues related to system management and security became a drain on IT department resources which translated into an unacceptable level of cost for the school system.

The legacy wireless network lacked the required throughput capability and, in turn, the predictability needed for running critical school applications. The old network would often exhibit "shaky"

performance when used for state required Standards of Learning (SOL) testing. As a result, ensuring Quality of Service (QoS) during SOL testing and other on-line assessments became a high priority concern for the IT staff. With a plan for growth in the number of wireless devices in classrooms, GCPS needed a scalable system that provided all the required capacity without compromise in performance.

Like most public school systems, GCPS is subject to the push to devote more space to learning and less to other areas of school operations. With physical space at a premium, the IT department was running out of viable options for housing their expanding LAN equipment. This dilemma made the idea of expanding the wireless network under a centralized system an even more attractive option.

- 1 Discuss the difficulties faced by the GCPC over the networking issues.
- 2 Suggest possible route of solution and best networking technique which suites in above case.
- 3 In light of above mentioned case discuss the importance of computer networking.

PART – III

10 Marks each

- 1 What is an Operating System? Briefly explain its various functions in detail.

OR

Explain Magnetic Storage Devices & Optical Storages Devices.

- 2 What is Network Topology? What are its different types. Explain

OR

Briefly discuss TCP/IP protocol suite. As a essential part of TCP/IP also explain Telnet and FTP.

3 What is Artificial Intelligence? Briefly explain its applications and benefits.

OR

Explain Management Support System, Executive Information System and Management Information System.

4 Briefly discuss System Development Life Cycle. Explain its every stages in detail.

OR

Explain System Analysis through DFD and ER Diagram.

5 Explain ERP. What are its components? Also mention at least five merits and demerits of ERP.

OR

Explain Cyber Crime and its different types. Also mention the steps to prevent cyber crime in information system.