

Ph. D. Course Work Examinations
(July, 2018)
Paper Title: Computer Fundamentals
Paper Code: PHD-102

Full Marks: 70

Time: 3 hours

(Answer *any seven* from the following questions)

1. Explain the terms hardware, software, firmware, system software and PDF file. 10
2. Draw a schematic diagram to illustrate the basic organization of a computer system, and explain the functions of various units of a computer system. 10
3. What do you understand by operating system? Explain different functions of operating system. 10
4. What is DOS operating system? Explain 6 DOS command. 10
5. What do you mean by machine language? Explain assembler, compiler and interpreter. 10
6. What are principles of information security? What do you mean by cryptography? Explain public key cryptography and secrete key cryptography. 10
7. What do you mean by topology? Explain ring topology with their advantages and disadvantages. 10
8. Discuss briefly the various characteristics of a computer. Write short note on “application of computer in research”. 10
9. What do you mean by computer network? Explain LAN, WAN, & MAN. 10
10. Explain third and fourth generation of computers. 10
