Part I: Operating Systems Fundamentals  Q1. True or False (put T for true and F for false	•	
1. The Main Memory consists of RAM (Random Access Memory) and ROM (Read Only Memory). (1 Point)  True  False		
<ul> <li>2. All of the secondary storages used as Output devices only for permeant storage.(1 Point)  True  False</li> <li>3. Bootstrap is a framework stored in ROM contains some instructions called basic input output instructions (BIOS).(1 Point)  True  False</li> <li>4. Windows server 2008 and Novell Netware are batching operating systems.(1 Point)  True  False</li> </ul>		^
<ul> <li>5. The purpose of the operating system is to ensure that it abstracts the HW and facilitates the seamless execution of users' applications using the system.(1 Point)</li> <li>True</li> <li>False</li> <li>6. The application itself is the responsible for accessing the memory variable storage and perform the calculations based on values in memory.(1 Point)</li> <li>True</li> <li>True</li> <li>False</li> </ul>	• • • • • • • • • • • • • • • • • • •	
<ul> <li>7. Threads help in performing parallelism within the same process.(1 Point)</li> <li>True</li> <li>False</li> <li>8. Interrupt vector contains the addresses for all Interrupt Service Routines (ISR) for all I/O devices that connected to the computer system.(1 Point)</li> <li>True</li> <li>False</li> </ul>		

9. The process which running in user-mode services would be able to access the hardware directly. (1 Point)  True  False  10. A Virtual Machine has its own guest OS, which may be the same as or different from the underlying host OS.(1 Point)  True  False	
Q2. Select the correct answer(s):  11. 1. Which of the following are Output Devices? (Select all the correct answers)(1 Point)  ✓ a. Data Projectors  ☐ b. Microphone  ✓ c. Speaker and Headphones  ☐ d. Scanner (2D and 3D)  ✓ e. Printer (2D and 3D) − inkjet or laser	
12. The	

14. The Usage type categorization of operating systems are: (Select all the correct answers)(1 Point)  a. Batch Operating Systems  b. Time Sharing Operating Systems  c. Parallel – Distributed Operating Systems  d. Network Operating Systems  e. Real Time Operating Systems  15. Select the Advantages of virtualization from the following: (Select all the correct answers)(1 Point)  a. Emulate more machines than are physically available.  b. Run operating systems where the physical hardware is unavailable.  c. Run legacy systems.  d. Debug problems (suspend and resume the problem machine).	
<ul> <li>e. All of the above</li> <li>16. Which of the following are the responsibilities of an operating systems? (Select all the correct answers)(1 Point)</li> <li>a. Access and protection</li> <li>b. File systems</li> <li>c. Scheduling</li> <li>d. Memory management</li> <li>e. I/O and resource management</li> </ul>	
17. The types of addressing of memory in the operating systems are: (Select all the correct answers) (1 Point)  a. Logical Address  b. Physical Address  c. Controlling  d. None of the above.	\$ 0 1 D \$
18. The way of management when the two processes need to save in the shared memory at the same time, it is called	

19. When a set of processes become blocked because each process is holding a resource and waiting for another resource acquired by some other process. This is called(1 Point)  a. Synchronization.  b. Deadlock.  c. Acceleration.  d. Process Status.	
20. The OS needs to be able to periodically clear temporarily created files that may no longer be required for the functioning of the system. This is typically done using a	
Part II: Computer Networks Fundamentals and Security  Q3. Select the correct answer: (only one correct answer)  21. We can find our IP address on a MS Windows based computer, by using:(1 Point)  a. Control Panel\Network and Internet\Network and Sharing Center  b. Ipconfig Command  c. Ipconfig /all Command	
22. We are using	
24. To communicate with hosts on the same LAN, we must use a	5- ⊙ ■

25. You must have an IP address to connect to the interneconfiguration was "obtain automatically") from:(1 Po  a. Router  b. DHCP  c. DNS  d. Switch	et, you can get your IP address (if your int)
26. What is the benefit of the Networking?(1 Point)  a. File Sharing  b. Easier access to Resources  c. Easier Backups  d. All of the Above  27. Which of the following is not the Networking Devices  a. Switch  b. Linux  c. Routers  d. Firewalls	?(1 Point)
28. A collection of computers and devices connected tog transmission media is called a:(1 Point)  a. Workgroup  b. Server  c. Mainframe  d. Network  29. Which of the following devices is dedicated to connect a. Hub  b. Switch  c. Access Point  d. Router	

30. An intrusion detection system (IDS) is primarily designed to perform what function?(1 Point)	^
a. prevents system failures	
○ b. Rate system performance	
c. Test a system for vulnerabilities	
d. Detect abnormal activity	g
31 is ensuring that information is not revealed to unauthorized persons.(1 Point)	٥
a, Confidentiality	
○ b. Integrity	
○ c. Security	
d. Authorization	
32. Which of The Following Malicious Program is Replicate Automatically?(1 Point)	
a. Antivirus	
○ b. backdoor	<b>⊗</b>
● c. Worm	
○ d. Zombie	٥
33. The modern TCP/IP Protocol Suite model consists of Layers?(1 Point)	
a. 4 layers	ø ⊙
b. 5 layers	
c. 6 layers	•
○ d.7 layers	
34. In which class the IP address <u><b>70.70.70.70</b></u> exists?(1 Point)	_
a. Class A	
b. Class B	
○ c. Class C	<b>8</b>
Od. Class D	
	o
25 If are site fails in distributed authors than (4 Daint)	
35. If one site fails in distributed system then(1 Point)	
a. the remaining sites can continue operating  b. all the sites will stop working	
c. directly connected sites will stop working	
d. none of the mentioned	
Carlone of the memories	-

Part III: SW Testing Fundamentals Q4. Select the correct answer: (only one correct answer)  36. Which testing phase tests individual software modules combined together as a group?(1 Point)  a. Module testing  b. Integration testing  c. White Box testing	\$ 1 B 5
37. The main focus of acceptance testing is:(1 Point)  a. Finding faults in the system  b. Ensuring that the system is acceptable to all users  c. Testing the system with other systems  d. Testing for a business perspective  e. Testing by an independent test team  38. Which is NOT true - The black box tester:(1 Point)  a. Should be able to understand a functional specification or requirements document  b. Should be able to understand the source code	40100
<ul> <li>c. Is highly motivated to find faults</li> <li>d. is creative to find the system's weaknesses</li> <li>39. Beta testing is:(1 Point)</li> <li>a. Performed by customers at their own site</li> <li>b. Performed by customers at their software developer's site</li> <li>c. Performed by an independent test team</li> <li>d. Useful to test bespoke software</li> <li>e. Performed as early as possible in the lifecycle</li> </ul>	

40. Verification is:(1 Point)  a. Checking that we are building the right system  b. Checking that we are building the system right  c. Performed by an independent test team  d. Making sure that it is what the user really wants	801103
41. The difference between re-testing and regression testing is:(1 Point)  a. Re-testing is running a test again; regression testing looks for unexpected side effects  b. Re-testing looks for unexpected side effects; regression testing is repeating those tests  c. Re-testing is done after faults are fixed; regression testing is done earlier  d. Re-testing uses different environments, regression testing uses the same environment	v
42. Before launching a software which testing is to be done in-house?(1 Point)  a. Beta b. Gamma c. Alpha d. None of the above  43. Software testing activities should start(1 Point)  a. As soon as the code is written b. During the design stage c. When the requirements have been formally documented d. As soon as possible in the development life cycle	
44. Faults found by users are due to:(1 Point)  a. Poor quality software  b. Poor software and poor testing  c. Bad luck  d. Insufficient time for testing  45. In which order should tests be run?(1 Point)  a. The most important tests first	
a. The most important tests first  b. The most difficult tests first (to allow maximum time for fixing)  c. The easiest tests first (to give initial confidence)  d. The order they are thought of	