



9. cmp, test, jz, jnz are examples of \_\_\_\_\_.  
 (A) Branching (B) Conditional  
 (C) Selection (D) Structures
 1 1 4 1
10. add, sub, idiv are examples of \_\_\_\_\_.  
 (A) Arithmetic (B) Branching  
 (C) Selection (D) Conditional
 1 1 3 1
11. The blue arrow indicates \_\_\_\_\_.  
 (A) Unconditional jump (B) Conditional jump  
 (C) Looping (D) Recursion
 1 1 4 4
12. Which color represents compiler generated code?  
 (A) Black (B) Red  
 (C) Blue (D) Green
 1 1 4 4
13. The assembly-level debugger's also called as \_\_\_\_\_.  
 (A) High-level debuggers (B) Medium-level debuggers  
 (C) Low-level debuggers (D) Code-level debuggers
 1 1 3 1
14. \_\_\_\_\_ allows to significantly decrease the amount of instructions to analyze wrong functionalities  
 (A) Step-in (B) Step-over  
 (C) Step-out (D) Step-gain
 1 2 5 2
15. \_\_\_\_\_ used to pause execution and allow the examine programs state  
 (A) Check point (B) View point  
 (C) Turning point (D) Breakpoint
 1 1 3 2
16. \_\_\_\_\_ principle way that a debugger gains control of a running program.  
 (A) Exception (B) Exemption  
 (C) Encoder (D) Encryption
 1 2 5 1
17. \_\_\_\_\_ was the first ransomware discovered for the android OS.  
 (A) Defender (B) Drsheap  
 (C) Luckycat (D) Bmaster
 1 1 6 1
18. \_\_\_\_\_ was the very first boot kit created for the android OS.  
 (A) Droid pack (B) Old boot  
 (C) Droid bot (D) Torec
 1 1 6 1
19. \_\_\_\_\_ is a popular reverse engineering tool that contains part of repository code.  
 (A) Androguard (B) Ugaurd  
 (C) Proguard (D) Mgaurd
 1 2 6 4
20. \_\_\_\_\_ most established and known multiscanner's for .apk files  
 (A) Virusshare (B) Virusget  
 (C) Virustotal (D) Virusmart
 1 1 6 2

**PART – B (5 × 4 = 20 Marks)**  
Answer ANY FIVE Questions

	Marks	BL	CO	PO
21. How to detect packer's with PEiD tool? Justify with example.	4	3	1	1
22. Compare static Vs dynamic linking with example for each.	4	3	1	1
23. Give some examples of import and export functions form malware binary file.	4	3	1	2
24. How to run malware inside sandboxing environment?	4	4	2	2
25. What is IDA data displays? Justify with an examples.	4	3	4	1
26. How to write plugin user interface inside IDA pro?	4	4	5	2
27. How to create JAR file for signing into android application.	4	3	6	1

**PART – C (5 × 12 = 60 Marks)**  
Answer ALL Questions

	Marks	BL	CO	PO
28. a.i. How to examine PE files with PE view? Justify with an example.	6	3	1	1
ii. How to unpack executables? Justify with an example.	6	4	1	2
<b>(OR)</b>				
b. Discuss in detail the general rules for malware analysis.	12	3	2	2
29. a. Explain in detail the structure of virtual machine for building sandboxing environment using suitable diagram.	12	3	2	1
<b>(OR)</b>				
b. Discuss in detail the basic tools used for dynamic analysis. Give examples for each tool with its purpose.	12	3	2	2
30. a. Write in detail the process of reverse engineering and patching new executables inside the disassembler.	12	4	5	4
<b>(OR)</b>				
b.i. Write brief notes on virtual functions and utables.	6	3	3	2
ii. Explain in detail the object life cycle with examples.	6	3	3	1
31. a. Discuss in detail augmenting functions and pre-defined comments inside IDA pro disassembler.	12	3	4	1
<b>(OR)</b>				
b. Explain in detail customizing IDA's for analyzing malicious binary file.	12	3	5	2

32. a. Write in detail about application storage and data collections inside android application. 12 3 6 1

(OR)

b.i. Enlist the capabilities and limitations of Emulators. 6 3 6 1

ii. Discuss in detail processor emulation giving suitable example. 6 3 6 1

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