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VASAVI COLLEGE OF ENGINEERING (*Autonomous*), HYDERABAD
B.E. (CBCS) III-Semester Supplementary Examinations, May/June-2018

Internet Usage Best Practices

Time: 3 hours

Max. Marks: 70

Note: Answer ALL questions in Part-A and any FIVE from Part-B

Part-A (10 × 2 = 20 Marks)

1. One of the challenges facing businesses that leverage the advantages of the Internet is developing sound business practices that protect the integrity of the business. Justify.
2. Define a Worm. Specify which worm was responsible for shutting down large segments of the Internet in January 2003.
3. Stuxnet was a very harmful computer virus. Specify how it spread.
4. Determine the best practice of providing physical security.
5. What does it mean, if the Cost Benefit analysis turns out to a positive value? Justify
6. List some common inbound threats.
7. Define Zero day attack and give an example of it.
8. Define the need for using VPN and the best practice needed to be adopted.
9. Two factor authentication is a solution that is adopted to prevent _____ & _____
10. Determine how Social Engineering helps perform Phishing.

Part-B (5 × 10 = 50 Marks)

(All bits carry equal marks)

11. a) Internet poses some of the greatest challenges. Justify each one of them.
 b) Draw a neat diagram to illustrate the process of DoS. How has this exemplified to a DDoS. Give a usecase and differentiate between Dos & DDoS.
12. a) Malwares are of different kinds. While giving examples for each one of them, describe each one of their characteristics.
 b) Give the relation between productivity and blocking unwanted content in a organization. How has this influenced in adopting best practices?
13. a) Describe the different Multipoint solutions in defending against threats.
 b) Read the situation below and describe what the situation is and write your comments to mitigate that, if any?

A conversation between Customer Representative (CR) and a user

CR : Good morning sir, how can I help you!!!

User : Hi I just wanted to know the warranty claim terms & conditions

CR : Sure sir, can I know your registered mobile number or email ID

User : Please take my email ID as verification. xyz@abc.com (email ID is Known)

CR : Thanks for confirming sir!!!

CR : You have made a purchase of IFB Washing machine on 27.01.17 in the name of Stephen Bernard and have opted for 4 years extended warranty.

User : I have done another purchase, not washing machine

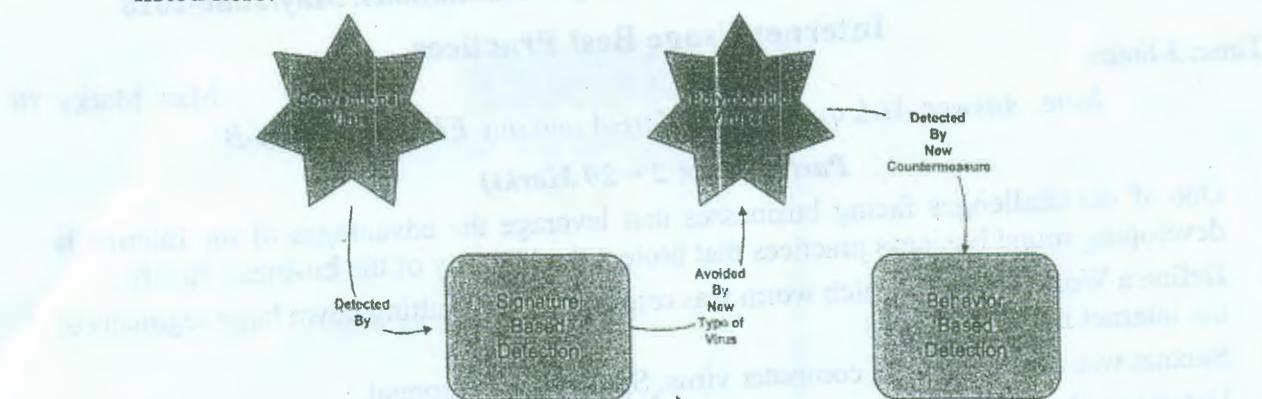
CR : Just a second sir. Yes, I can see you made a purchase for Samsung TV, Philips Home Theater (and the list continues by the CR)

User : Did I give my office number during the purchase?

CR : I have this contact no: 98887XXXXX (Reveals the mobile number)

And the call continues, and by the end of the call, the user gets a lot of details updated through the Customer Rep.

14. a) How is the image below best describes the virus. Describe the third form of virus not listed here.



- b) List the specific Outbound threats present in any business organization.
15. a) Justify the below statement. "A challenge of effective content filtering is maintaining up-to-date information".
- b) What is Wireshark and why is this used for. Describe the steps performed for demonstrating Wireshark.
16. a) What are the steps to adopt by any organizations to protect themselves from Industry Espionage.
- b) Differentiate between a Trojan and a Bot. Define how are they related with DoS.
17. Answer any ***two*** of the following:
- Explain the various types of internet-based threats.
 - Give the structure and functions of countermeasures to defend against internet threats
 - Describe Zero Day Threats. Which one of the following is a right match for Zero day: Viruses, Worms, Trojans or Vulnerabilities.

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