MAHATMA GANDHI UNIVERSITY, KOTTAYAM

MGU-UGP (HONOURS)

FIRST SEMESTER EXAMINATION

(2024 ADMISSION ONWARDS)

MG1DSCCFS100 - INTRODUCTION TO DIGITAL FORENSICS AND TOOLS

Duration: 1.5 hrs   MaximumMarks:50

Students should attempt at least one question from each course outcome to enhance their overall outcome attain ability.

Part A
Short Answer Type Questions
Answer **any 10** Questions
Each question carries **1** mark

1. Explain the use of digital forencics-intelligence.   [Understand][1]
2. Identify the five basic stages of the digital forensic process. [Understand][1]
3. Identify the steps for collecting and preserving digital evidence [Understand][1,2]
4. Describe Chain of Custody. [Understand][2]
5. Identify any two hashing algorithms. [Understand][2]
6. Describe MRU. [Understand][1,2]
7. Summarize the concept of data sampling. [Understand][1,3]
8. Outline the concept of obfuscation. [Analyse][1,3]
9. Examine which tool helps investigators to analyse hard drives,smartphones for digital evidence [Analyse][3]
10. What is FTK imager? [Understand][1,4]
11. Name the image analysis tool. [Apply][4]
12. List out some tools used for data masking. [Apply][4]

[10x1=10]

Part B
Short Essay Type Questions
Answer **any 4** Questions
Each question carries **5** marks

13. Identify the uses of digital forensics. [Understand][1]
14. Describe the process in the identification and preservation of digital evidence. [Understand][1,2]
15. Explain Order of Volatility.   [Understand][2]
16. Explain Hybrid sleep.   [Understand] [1,2]
17. Differentiate NTFS and FAT. [Analyse][1,3]
18. How can we carve data using FDAC? [Apply[4]

[4x5=20]

Part C
Essay Type Questions
Answer **any 2** Questions
Each question carries **10** marks

19. Describe the five basic stages of the digital forensic process and their importance in a legal investigation. [Understand][1]
20. Describe in detail, about evidence acquisition from a live system.
    [Understand][2]
21. Discuss the various types of password attacks, their methodologies, and the potential impact on individuals and organizations. Compare effective strategies for mitigating these attacks and enhancing password security.
    [Understand][1,3]

[2x10=20]

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MGU-UGP (HONOURS)

FIRST SEMESTER EXAMINATION

(2024 ADMISSION ONWARDS)

MG1MDCCFS100 - FOUNDATION OF CYBER FORENSICS

Duration: 1.5 hrs   MaxiumMarks: 35

Students should attempt at least one question from each course outcome to enhance their overall outcome attain ability.

Part A
Short Answer Type Questions
Answer **any 10** Questions
Each question carries **1** mark

1. Identify one key goal of computer forensics.   [Understand][1]
2. Indicate one source where electronic can be found during an investigation. [Understand][1]
3. Subdivide the process of discovering files during a forensic investigation. [Analyse][2]
4. What is BAIT?. [Analyse][2]
5. Discuss about DIRT.. [Understand][1]
6. Examine Back-Up Obstacles. [Analyse][2]
7. Identify any of the analysis tool in cyber forensics.. [Understand][3]
8. Identify any two Disk Imaging tools.. [Understand][3]
9. How do we measure the importance of file system analysis tools? [Evaluate][4]
10. Evaluate windows registry? [Understand][3]
11. Evaluate Encase registry viewer [Understand][3]
12. How do you add, modify, and delete registry keys and values programmatically. [Evaluate][4]

[10x1=10]

Part B
Short Essay Type Questions
Answer **any 3** Questions
Each question carries **5** marks

13. Explain the key qualifications to look for when selecting a computer forensic specialist for a criminal investigation. [Understand][1]
14. Examine different types of computer forensics technology. [Analyse][2]
15. Describe the general steps followed in extracting evidence from digital devices in cyber forensics. [Understand][3]
16. Explain the various types of network capturing tools. [Understand][3]

[3x5=15]

Part C
Essay Type Questions
Answer **any 1** Question
Each question carries **10** marks

17. Differentiate between the various services offered by computer forensics experts in assisting legal investigation. [Understand][1]
18. Discuss the types of business computer forensic technology. [Analyse][2]

[1x10=10]

MAHATMA GANDHI UNIVERSITY, KOTTAYAM

MGU-UGP (HONOURS)

FIRST SEMESTER EXAMINATION

(2024 ADMISSION ONWARDS)

MG1MDCCFS101 - DATA RECOVERY

Duration: 1.5 hrs   MaxiumMarks: 35

Students should attempt at least one question from each course outcome to enhance their overall outcome attain ability.

Part A
Short Answer Type Questions
Answer **any 10** Questions
Each question carries **1** mark

1. Define data recovery.   [Understand][1]
2. List out tools used for data recovery.   [Understand][1]
3. List malware affect computer data.   [Understand][1]
4. Define data loss   [Remember][1]
5. Discuss about logical failure   [Understand][1]
6. Describe back up procedure   [Understand][2]
7. Identify the full form of RPM   [Understand][1,3]
8. Identify the use of R Drive   [Understand][2,3]
9. Write the use of R-Studio   [Apply][4]
10. Show importance of Disk Drill   [Apply][4]
11. List any two data recovery software   [Understand][1,2]
12. Define file system corruption   [Understand][2,3]

[10x1=10]

Part B
Short Essay Type Questions
Answer **any 3** Questions
Each question carries **5** marks

13. Explain stages of data recovery.   [Understand][1]
14. Differentiate Anti-virus and anti-malware   [Understand][1,2]
15. Discuss the importance of   disk imaging in data recovery.[Understand][2,3]
16. Write the difference between primary and logical partitions.[Apply][4]

[3x5=15]

Part C
Essay Type Questions
Answer **any 1** Question
Each question carries **10** marks

17. Explain the various components of a hard disk with a diagram. [Understand][1,3]
18. Write any two data recovery tools and softwares and explain it briefly. [Apply][4]

[1x10=10]

MAHATMA GANDHI UNIVERSITY, KOTTAYAM

MGU-UGP (HONOURS)

FIRST SEMESTER EXAMINATION

(2024 ADMISSION ONWARDS)

MG1MDCCFS102 - WEB DESIGNING

Duration: 1.5 hrs   MaxiumMarks: 35

Students should attempt at least one question from each course outcome to enhance their overall outcome attain ability.

Part A
Short Answer Type Questions
Answer **any 10** Questions
Each question carries **1** mark

1. Identify the expansion of HTML.   [Remember][1]
2. Describe the correct sequence of HTML tags for starting a webpage. [Understand][1]
3. How many heading styles are there in html? [Analyse][2]
4. Differentiate empty tags and Container tags. [Analyse][2]
5. Evaluate the different shapes you can define for clickable areas in an image map. [Evaluate][3]
6. 6 .Recommend an element for adding caption to a video. [Evaluate][3]
7. Illustrate the difference between inline, internal, and external style sheets. [Apply][1]
8. Implement CSS properties can be used to control the font family, font size, font weight, and font style. [Apply][1]
9. Evaluate the effectiveness of using the text-decoration property for highlighting important text elements [Evaluate][4]
10. Assess the HTML tag to print your city name in red color. [Evaluate][3]
11. How can you create a web page that displays an image 'Flower.jpg' as marquee? [Evaluate][3]
12. Write down the HTML tag to create a checkbox with label 'English'. [Evaluate][4]

[10x1=10]

Part B
Short Essay Type Questions
Answer **any 3** Questions
Each question carries **5** marks

13. How colors are defined in HTML? [Apply][1]
14. Describe how to insert images in a web page. [Understand][1]
15. Illustrate the structure and usage of the <style> element. When would you use <style> to embed CSS directly within an HTML document? [Apply][2]

16. Recommend a simple web page of a college named 'ABC College' which may contain two different links 'Courses' and 'Application Forms'. The two links may lead to two different web pages. [Evaluate][4]

[3x5=15]

Part C
Essay Type Questions
Answer **any 1** Question
Each question carries **10** marks

17. Explain the architecture of World Wide Web with a neat diagram [Understand][1]
18. Explain the process of adding Multimedia to HTML. [Evaluate][3]

[1x10=10]