

H.T No:

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R18

Course Code: A36618



CMR COLLEGE OF ENGINEERING & TECHNOLOGY
(UGC AUTONOMOUS)

B.Tech VII Semester Supplementary Examinations April-2024

Course Name: **ROBOTICS PROCESS AUTOMATION**

(CSM)

Date: 24.04.2024 AN

Time: 3 hours

Max.Marks: 70

(Note: Assume suitable data if necessary)

PART-A

Answer all TEN questions (Compulsory)

Each question carries TWO marks.

10x2=20M

1. What are the components of RPA? 2 M
2. Discuss about sequencing the workflow. 2 M
3. Define Email Clients. 2 M
4. Define Data tables. 2 M
5. Define flowchart and give an example. 2 M
6. What is CSS? 2 M
7. Define standardization of processes. 2 M
8. List out RPA development methodologies. 2 M
9. Explain the solution design document. 2 M
10. What are the risks associated with RPA? 2 M

PART-B

Answer the following. Each question carries TEN Marks.

5x10=50M

- 11.A). Describe Task recorder with an example. 10M
- OR**
11. B). Explain the concept of emptying trash in Gmail and emptying recycle bin. 10M
12. A). What are the various software processes? 10M
- OR**
12. B). Explain the software design in detail. 10M
13. A). Differentiate RPA and Automation. 10M
- OR**
13. B). Describe control structures and functions with examples. 10M
14. A). Discuss programming constructs in RPA. 10M
- OR**
14. B). Explain Robotic control flow architecture. 10M
15. A). What are the risks and challenges with RPA? 10M
- OR**
15. B). Describe RPA and emerging ecosystem in detail. 10M

H.T No:

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R18

Course Code: A30539



CMR COLLEGE OF ENGINEERING & TECHNOLOGY
(UGC AUTONOMOUS)

B.Tech VII Semester Supplementary Examinations April-2024

Course Name: Ethical Hacking

(Common for CSE & CSM)

Date: 26.04.2024 AN

Time: 3 hours

Max.Marks: 70

(Note: Assume suitable data if necessary)

PART-A

Answer all TEN questions (Compulsory)

Each question carries TWO marks.

10x2=20M

- | | |
|--|-----|
| 1. How does the firewall works? | 2 M |
| 2. Identify how does DDOS attack will occur | 2 M |
| 3. Define web hacking. | 2 M |
| 4. Discuss about the Password Hacking. | 2 M |
| 5. Can you write about importance of Cryptography? | 2 M |
| 6. Can you interpret the use of Hash function? | 2 M |
| 7. What do you know about Intrusion detection systems? | 2 M |
| 8. Distinguish between NIDS and HIDS. | 2 M |
| 9. Explain about Side Channel Attacks. | 2 M |
| 10. Can u Interpret about SQL Injection? | 2 M |

PART-B

Answer the following. Each question carries TEN Marks.

5x10=50M

- | | |
|--|-----|
| 11.A). Elaborate & differentiate between TCP & UDP. | 10M |
| OR | |
| 11. B). Discuss about the Packet Inspection firewall & Application Proxy Firewall. | 10M |
| 12. A). Summarize the concept of Social Engineering Attacks & Malware Threats. | 10M |
| OR | |
| 12. B). Demonstrate the Idea of Penetrating testing by creating backdoors. | 10M |
| 13. A). Analyze the Digital Signature & Certificates & its applications. | 10M |
| OR | |
| 13. B). i) Design the process of Strategic Planning. | 5M |
| ii) How to manage the Threats? | 5M |
| 14. A). Determine the importance of DNS & Email Security. | 10M |
| OR | |
| 14. B). Identify the strategies used in Hacking wireless Networks. | 10M |
| 15. A). Outline the idea of Automated Penetrating Testing Tools. | 10M |
| OR | |
| 15. B). Can u Recommend the Cross Site Scripting Penetrating Testing Steps? | 10M |



CMR COLLEGE OF ENGINEERING & TECHNOLOGY
(UGC AUTONOMOUS)

B.Tech VII Semester Supplementary Examinations April-2024

Course Name: SPEECH AND LANGUAGE PROCESSING
(CSM)

Date: 29.04.2024 AN

Time: 3 hours

Max.Marks: 70

(Note: Assume suitable data if necessary)

PART-A

Answer all TEN questions (Compulsory)

Each question carries TWO marks.

10x2=20M

- | | |
|--|-----|
| 1. Explain about words and vectors. | 2 M |
| 2. Outline the needs of Natural Language Processing. | 2 M |
| 3. Explain Chatbots. | 2 M |
| 4. Give two differences between human dialogue and Frame-based dialogue. | 2 M |
| 5. What are the parts of the Voice tract Model? | 2 M |
| 6. What are the perceptions of sound? | 2 M |
| 7. What are the uses of Spectrogram? | 2 M |
| 8. What purpose filter banks are used? | 2 M |
| 9. What are the characteristics of Speech recognition applications? | 2 M |
| 10. What is Automatic Speech Recognition? | 2 M |

PART-B

Answer the following. Each question carries TEN Marks.

5x10=50M

- | | |
|---|-----|
| 11.A). i) Explain N Gram in detail. | 4M |
| ii) How does TF-IDF improve over Bag of Words? Justify your answer. | 6M |
| OR | |
| 11. B). Consider the following Corpus of three sentences. | 10M |
| • There is a big garden. | |
| • Children play in a garden | |
| • They play inside a beautiful garden | |
| Calculate P for the sentence "They play in a big Garden" assuming a bi-gram language model. | |
| 12. A). What is Text Classification? Explain any two classification approaches. | 10M |
| OR | |
| 12. B). Explain language models for Q&A in detail. | 10M |
| 13. A). Explain the function of the Human Ear in detail. | 10M |
| OR | |
| 13. B). Explain Short-term Fourier representation of speech. | 10M |
| 14. A). Describe the short-term energy and short-term zero crossing rate of the speech signal. | 10M |
| OR | |
| 14. B). What is speech coding? Explain the need for speech coding. Explain how Liner Predictive Coding can be used for speech coding. | 10M |
| 15. A). Explain how to design a voice user interface on Alexa. | 10M |
| OR | |
| 15. B). Explain in detail the significance of isolation word recognition. | 10M |
