

NATIONAL INSTITUTE OF TECHNOLOGY, TIRUCHIRAPPALLI
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
CYCLE TEST

Subject Code/ Name: CSIR71 / Industrial Lecture
Marks: 20

Date: 19/ 04/ 2022
Time: 5:00 – 6:00 pm

Answer all the Questions

1. Explain BITCOIN. State its Advantages. (3)
2. Explain Ethereum Virtual Machine along with its features (3)
3. Explain proof of stake and proof of work (2)
4. Explain Smart contracts (2)
5. Is Blockchain immutable? Justify (3)
6. Write a contract in solidity to store and retrieve a value of the variable. (4)
7. What is Sharding? (3)

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Date: 20/ 04/ 2022
Time: 5:00 – 6:00 pm

Answer all the Questions

1. Differentiate Concurrency and Parallelism with an example. (3)
2. Explain CallbackHell with an example. (3)
3. Explain the resolve and reject method in the promise object with examples (4)
4. What is AsyncWait? (2)
5. Explain ThreadPool (2)
6. Explain Eventloop in JavaScript (3)
7. Can you make a program concurrent without having it be parallel? Justify. (3)

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Subject Code/ Name: CSIR71 / Industrial Lecture
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Date: 22/ 04/ 2022
Time: 5:00 – 6:00 pm

Answer all the Questions

1. Define (a) Stemming (b) Lemmatization (c) Stop word removal (4)
2. What are the Limitations of the Unstructured data (2)
3. Brief on OWL (Web Ontology Language) (3)
4. Explain the term-document matrix and Cosine Similarity (3)
5. Write a program to tokenize a given sentence (3)
6. Differentiate Machine learning and Deep learning (2)
7. Write a note on Concept Maps (3)

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Subject Code/ Name: CSIR71 / Industrial Lecture

Date: 27/ 04/ 2022

Marks: 20

Time: 5:00 – 6:00 pm

Answer all the Questions

Marks: 10*2=20

- ~~1.~~ List the different phases in the chipset lifecycle
- ~~2.~~ Define NOC
- ~~3.~~ Brief on Very Long Instruction Word
4. Explain strlcat function
- ~~5.~~ Define Stack canaries
- ~~6.~~ List some of the Key performance Indicators
- ~~7.~~ List the memory-intensive synthetic benchmarks
- ~~8.~~ List the levels of autonomous driving
- ~~9.~~ List the task scheduling methods in Qualcomm Kryo CPU
- ~~10.~~ List the various Exception levels

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Subject Code/ Name: CSIR71 / Industrial Lecture

Date: 28/ 04/ 2022

Marks: 20

Time: 5:00 – 6:00 pm

Answer all the Questions

1. List the Various Gitops Tools. (2)
2. Define Docker and OCI (2)
3. List Major categories in the infrastructure of security. (2)
4. List the cons of the SSH-based deployment. (2)
5. Draw a block diagram to demonstrate the pull-based deployment. (4)
6. List the types of Gitops (2)
7. Define Drift with an example. (2)
8. Draw a block diagram to demonstrate the shared artifact model. (4)