

SEARCH @KELEME_2013 ON
TELEGRAM AND JOIN US.



ቀለሙ

ON TELEGRAM

@keleme_2013

Hawassa Universtiy
Institute of Technology Faculty of Informatics
Department of Computer Science
Introduction to Emerging Technology (course code: cosc1011)
Final-Exam

Date: 01, October 2021

Program: regular 2021 entry

Maximum point: 60%

Time Allowed: 1:30 hrs.

Name _____ ID.No: _____ Section: _____

Part I. True/False Items (1.5 Points)

Write TRUE if the statement is true and FALSE if the statement is false.

1. IOT devices do most of the work without human intervention, Although people can interact with the devices
2. The key characteristic of virtual reality is begin able to create a real time interaction between contents in real word with that of the synthetic content.
3. Augmented reality is a form of emerging technology that allows users to overlay computer generated content in the real world.
4. Artificial intelligence is a new word and a new technology for researchers.
5. The first intelligent humanoid robot was built in FORTAN.

Part II. Multiple Choice Items (1.5 Points)

Choose the correct answer the given alternatives (4 points each).

1. The augmented reality system (ARS) which mixed the virtual content with the real content and sent the result to video out module is _____?
A. infrastructure tracker unit B. Processing unit C. Visual unit D. All
2. One of the following is not advantage of artificial intelligence.
a) AI B. Cloud computing C. Big data D. All of the above
3. _____ is a multi-disciplinary field that uses scientific methods, processes, algorithms, and systems to extract knowledge.
A. Detection B. Data science C. Technology D. A & B E. All of the above
4. _____ can be defined as a representation of facts, concepts, or instructions in a formalized manner

- A. Data B. Information C. Emerging D. Innovation

5. _____ is a term generally used to describe a new technology.

- A. Emerging Technology B. Integrity C. Computer D. All

6. _____ is a form of emerging technology that allows users to overlay computer-generated content in the real world

- A. Augmented reality B. Mixed Reality C. Virtual reality D. All

7. _____ machines will be super intelligent and will have their own consciousness, sentiments, and self-awareness.

- A. Self-Awareness B. intelligence C. virtual D. none

8. The first AI winter

- A. 1956-1974 B. 1974-1980 C. 1980-1987 D. 1993-2011

9. Digital Assistant AI can be very useful to provide digital assistant to users such as AI technology _____ is currently used by various E-commerce websites to show the products as per customer requirements.

- A. True B. False C. none

10. which one of the following is not an application of iot ?

- A. smart device B. smart agriculture/connected car C. home automation D. all E. none

11. Allowing medical surgery to look at patient while they see an overly an example of _____

- A. virtual reality B. augmented reality C. mixed reality D. all

12. The internet of things operates at _____ scale

- A. machine B. human C. device D. sensor

13. Which one of the following is true advantage of AR?

- A. Cloud computing B. hybrid reality C. High-speed D. none

14. _____ Requires innovative forms of information processing to draw insights, automate processes, and help decision making.

- A. car B. high-speed C. big data D. all

15. Which one of the following main purpose of the sensing layer is to identify any phenomenon in the devices' peripheral and obtain data from the real world?

- A. Sensing Layer B. layer C. Big Data C. all

Part III: Matching the following items (2 points)

"A"

"B"

1. Virtual reality

A. To breed via gonadotropin-releasing hormone

2. Aquaculture fisheries
3. Mixed reality
4. Compliance
5. High-speed

- B. advantage of artificial intelligence
- D. computer-simulated
- C. challenge of iot
- E. hybrid reality
- F. virtual content aligned

Part IV: Fill the blank space (2 points)

1. _____ acts as a communication channel to transfer data, collected in the sensing layer, to other connected devices.
2. _____ understand human emotions, people, beliefs, and be able to interact socially like humans.
3. _____ "man-made," and intelligence defines "thinking power", or "the ability to learn and solve problems" hence Artificial Intelligence means "a man-made thinking power."
4. Artificial Intelligence can be divided into various types, there are _____ and _____.
5. _____ AI is a type of AI which is able to perform a dedicated task with intelligence.

Part V: Give short answer (1.5 Points)

1. Explain IoT stack?
2. What is Connectivity?
3. What are the main parts of the IoT system?
4. List out at list top five currently available emerged technologies?
5. Define artificial intelligence?