

B. C. A. DEGREE EXAMINATION, APRIL 2018
SIXTH SEMESTER

COURSE : MAJOR CORE
PAPER : EMERGING TRENDS IN INFORMATION TECHNOLOGY
TIME : 3 HOURS MAX. MARKS: 100

SECTION A

ANSWER ALL QUESTIONS: (20 X 1 = 20)
Choose the best answer:

- In Cloud, small enterprises and start-ups can afford to translate their ideas and business results quickly without upfront_____.
a. System b. Cost c. Work d. Model
- S3 means _____.
a. Simple serviced server b. Simple storage server
c. Server storage service d. Simple storage service
- A _____can migrate autonomously migrate from host to host through heterogeneous computing infrastructure and interact with others.
a. Mobile agent b. Agent c. Entity d. None
- _____is smaller than millimeter, without display and built from MEMS.
a. Smart nodes b. Smart pads c. Smart Dust d. Smart clay
- _____ means many devices gather and process information from many sources to control physical process and to interact with users.
a.Sensors b. Embedded c. Ambient Intelligence d. Artificial Intelligence
- To connect two different network_____ is used.
a.Gateway b. MAC address c. hub d. all
- _____ is to translate data into a fixed data format before providing data to algorithms.
a. Integration b. Preprocessing c. Designing d. Translation
- Which can be used directly from website or made available to the call center?
a.Knowledge hub b. CSP c. Hub d. Wifi hub
- Reducing total power consumption and reduce power consumed in standby model is called_____.
a.Long life b Go green c. Energy saving d. Recycle
- _____ monitor is threat to environment.
a.CRT b. LCD c. Both d. None

Fill in the blanks:

- _____ is a cloud computing platform for developing social enterprise application.
- In _____ resources like storage computing power, infrastructures are packaged and offered on pay-per-use basis.
- _____ device is characterized by possession of some kind of intelligence.

14. The systems that do not have power source on their own is called _____.
15. _____ are the nodes where data should be delivered.
16. In _____ mobility the network has to recognize itself frequently enough to be able to function correctly.
17. _____ is used for displaying the output of data analytics.
18. Customer locations can be summarized into _____ at different levels of granularity.
19. _____ is the study of environmentally sustainable computing.
20. _____ data centers don't save energy.

SECTION B

ANSWER ALL THE QUESTIONS:

(5 X 2 = 10)

21. What is virtualization?
22. Define Pervasive computing.
23. How WSN can be used in Agriculture?
24. Differentiate big data and regular data.
25. Define Green computing.

SECTION C

ANSWER ANY EIGHT OF THE FOLLOWING QUESTIONS:

(8 X 5 = 40)

26. Write a note on different types of cloud.
27. List some of the challenges in cloud computing.
28. Briefly explain smart device components and its capabilities.
29. Write different categories of security threat to agent platform and the counter measures.
30. Write about the mechanisms required for WSN.
31. Explain security goals in WSN.
32. Write about big data analytics application in online advertising.
33. Explain with example about three V's in Big Data.
34. Write a note on smart building from the perspective of Green computing
35. What makes the device green?

SECTION D

ANSWER ANY THREE OF THE FOLLOWING QUESTIONS:

(3 X 10 = 30)

36. With neat sketch explain the Architecture of cloud.
37. Explain any three applications of ubiquitous computing in real life scenarios.
38. Explain Denial-of-service attacks at different layers.
39. Write in detail about Data Analytics Project life cycle.
40. Briefly explain the ways to make our environment green through Green computing.
