

STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI-86
(For candidates admitted during the academic year 2011 –12 & thereafter)

SUBJECT CODE: 11CS/UI/CT23

B.A./B.Sc./B.Com. / B.V.A./ B.C.A. / B.S.W. DEGREE EXAMINATION
APRIL 2015

COURSE : INDEPENDENT ELECTIVE

PAPER : CURRENT TRENDS IN IT

TIME : 3 HOURS

MAX.MARKS : 100

SECTION – A

Answer all of the following:

(20 x 1 = 20)

Choose the correct answer:

1. _____ systems replace our view of the real world with computer-generated images that react to the position and orientation of the user's hand.
a) Hybrid b) Non-Hybrid c) Immersive d) Non-immersive
2. _____ involves real-time interaction between the user and the Virtual environment.
a) virtual observer b) virtual database c) imaginary observer d) immersion
3. _____ is the first expert system developed.
a) CADUCEUS b) MYCIN c) DENDRAL d) MISTRAL
4. _____ are the individuals who currently are experts in solving the problems.
a) Domain experts b) Knowledge Engineers
c) Users d) System Engineers
5. _____ is traditionally known as super-computing.
a) High Performance Computing b) Cluster Computing
c) Peer – to – Peer Computing d) Internet Computing
6. _____ protocol provides high-speed and reliable transfer of large volume data.
a) Grid Security Infrastructure b) Grid Resource Allocation and Management
c) Grid File Transfer Protocol d) Grid Information Services
7. _____ is a processing unit for specific tasks,that is integrated through buses with the main processor in the embedded system.
a) Application Specific System Processor b) Application Specific Instruction Processor
c) General Purpose Processor d) Embedded Specific System Processor
8. An embedded system locates the software image in _____.
a) RAM b) ROM c) PROM d) EEPROM
9. What is the number one concern about cloud computing?
a) Too expensive b) Security c) Too many platforms d) Accessibility

10. The term VPN expands to _____.
- | | |
|---------------------------|----------------------------|
| a) Viral private network | b) Virtual private network |
| c) Virtual public network | d) none of the above |

Fill in the blanks:

11. HRTFs stands for _____.
12. _____ is telepresence based vehicle used by NASA.
13. An expert system is composed of _____ and _____.
14. The way in which the problem specific data is stored and accessed in the system is called _____.
15. The _____ is a popular example of grid middleware.
16. _____ describes a service-oriented architecture for a grid computing environment for business and scientific use.
17. _____ and _____ are the two essential units of a processor.
18. _____ is a single VLSI chip that has a CPU and may also have some other units.
19. Google docs is type of _____ computing.
20. The term API refers to _____.

SECTION – B**Answer all of the following:****(5 x 2 = 10)**

21. What are the areas in which virtual environment be applied?
22. What is an AI technique?
23. What is a cluster?
24. What is an embedded system?
25. What are the advantages of cloud computing?

SECTION – C**Answer any eight of the following:****(8 x 5 = 40)**

26. Explain the geometric basis behind the virtual world space?
27. Explain the hardware required for Virtual reality.
28. Discuss the applications of Expert systems.

29. What are the techniques used for drawing inferences from the knowledge base? Explain any one.
30. Write notes on the Peer- to-Peer computing.
31. Explain in detail about cluster computing.
32. Explain how embedded systems are classified.
33. Discuss the skills required for an embedded system designer.
34. Explain the Migration risks and Mitigation in Cloud computing.
35. Discuss implementation of SaaS and SOA.

SECTION – D

Answer any three of the following:

(3 x 10 = 30)

36. Discuss any five applications of Virtual reality.
37. Explain an Expert system shell and its components.
38. Explain the types of Grids.
39. Illustrate with a diagram the components in SOC – Smart Card.
40. Discuss cloud computing for enterprise applications.
