

Exam Code: 000-X01

Exam Name: IBM System x iDataPlex Mastery V1

Vendor: IBM

Version: DEMO

Part: A

1: IBM's approach to product development focuses on purpose built systems with evidence in our X4 product line, BladeCenter product line, iDataPlex product line, and rack/tower product line. Which server vendor, however, is placing as many types of servers into their blade form factor calling it Blade Everything?

- A.Dell
- B.IBM
- C.HP
- D.Gateway

Correct Answers: C

2: iDataPlex is a solution for large scale data center deployments. In addition to the hardware architecture, what other important planning is required that can be provided from IBM to assist the customer with their deployment?

- A.GTS Site and Facility - Airflow analysis and power and cooling distribution plans
- B.STG Lab Services - Installation of equipment in the Data Center
- C.Software Group - Starter Kit for customers migrating from Web 2.0 to HPC applications
- D.IGF Free equipment loans and recycling

Correct Answers: A

3: Which of the following is a packaging strategy of iDataPlex servers?

- A.Fourteen blades per rack like BladeCenter
- B.Two servers per chassis for optimal cooling and cost
- C.One server per rack for optimal cooling and energy efficiency
- D.Four chassis per rack (two half high servers each) for optimal cooling

Correct Answers: B

4: Which of the following server vendors created Cloud Computing in 2007?

- A.Dell
- B.IBM
- C.HP
- D.Gateway

Correct Answers: A

5: Which of the following is a characteristic of the iDataPlex design?

- A.Can run node power supply at higher load, resulting in a better power supply efficiency
- B.Uses more efficient 40mm fans for each 1U tray
- C.Has a smaller node depth, resulting in greater airflow impedance, thus better fan efficiency
- D.Uses 120mm fans for greater efficiency

Correct Answers: A

6: iDPx offers more configuration flexibility for customers with the Bensley chipset based dx340 compared to the San Clemente chipset based HP BL2x220c. Which of the following is a valid

reason for that flexibility?

- A.Lower memory density
- B.Rack mounting position
- C.Number of hard drives attachable per motherboard
- D.Faster memory speeds

Correct Answers: C

7: iDPx offers more configuration flexibility for customers with the Bensley chipset based dx340 compared to the San Clemente chipset based HP BL2x220c. Which of the following is a valid reason for that flexibility?

- A.Lower memory capacity
- B.Space for I/O with x16 PCIe adaptor cards
- C.Inboard SAN controller
- D.Faster memory speeds

Correct Answers: B

8: Which of the following are the major common areas between the IBM System x heritage of product innovation and the requirements for the new Web 2.0 Data Center markets?

- A.Advanced systems management tools and cooling efficiency
- B.Best in class hardware redundancy and high availability
- C.Long lasting infrastructure and full featured solutions
- D.Most power efficient, lowest cost, fully integrated architecture

Correct Answers: D

9: Which of the following features allows placement of the racks against walls and closer together in a data center?

- A.Vertical pockets for additional servers
- B.Front access to servers and cable routing
- C.Common fans for more efficient cooling solutions
- D.Rear power connectors

Correct Answers: B

10: Which of the following is the management strategy of iDataPlex?

- A.IBM Director manages all components as single image
- B.Rack Management Appliance manages the homogeneous image
- C.Hardware Maintenance Console (HMC) manages dissimilar components
- D.Tivoli Provisioning Manager manages all components as single image

Correct Answers: B

11: Which of the following describes IBM's position in Web2.0 computing?

- A.IBM is seen as a leader and early innovator
- B.IBM is seen as a low cost provider with a solid track record
- C.IBM was late to the market with a hardware solution
- D.IBM leapfrogged to a leadership position with iDataPlex

Correct Answers: C

12: Which of the following is a positive feature of the optional Rear Door Heat Exchanger in iDataPlex?

- A. Should be used in conjunction with CRAC units for highest efficiency
- B. Under the proper conditions, it can eliminate the need for CRAC units in the data center
- C. Has highest heat removal at low water flow rates and very low temperatures
- D. Extracts up to 75% of the heat load

Correct Answers: B

13: Which Flex node technology features of the iDataPlex 2U Flex Chassis offer usability and flexibility to configure and manage servers for maximum runtime?

- A. Shared power and cooling
- B. Independent swappable servers
- C. Redundant power and fans
- D. Using Blade servers

Correct Answers: B

14: Which of the following gives iDataPlex new Form Factor greater density within the rack?

- A. Mounting switches in Vertical columns and servers side by side horizontally
- B. The Rear Door Heat eXchanger allows to layout racks closer together
- C. Directly attaching storage to servers
- D. Providing 100U of space for servers

Correct Answers: A

15: Which of the following is a customer requirement to run xCAT on iDataPlex?

- A. Have the proper non-disclosure agreement (NDA) in place with IBM to receive the xCAT compatibility module(s) for the iDataPlex hardware in their configuration.
- B. Obtain xCAT from <http://www.xcat.org/>, follow the instructions for configuration or installation, optionally engaging IBM for consulting services on configuration, installation, and use of xCAT.
- C. Become a participating xCAT contributor at <http://www.xcat.org/>.
- D. Have systems administration staff with knowledge of object-oriented programming in Java and C++.

Correct Answers: B

16: Which one is most accurate when describing iDataPlex power savings over standard 1U?

- A. More efficiently-utilized power supply and slower, more efficient fans result in lower power consumption
- B. More efficiently-utilized power supply and faster, more efficient fans result in lower power consumption
- C. 375 W power supply in 2U and faster fan speed result in lower power consumption
- D. 375W power supply for 3U chassis and slower fan speed result in lower power consumption

Correct Answers: A

17: Which iDataPlex Intel based server would be implemented for a high performance computing application?

- A.iDataPlex dx320
- B.iDataPlex dx340
- C.iDataPlex dx360
- D.iDataPlex dx380

Correct Answers: C

18: A prospect is experiencing power and cooling limitations in scaling out their compute centers. Which of the following iDataPlex attributes best addresses this problem?

- A.It provides more data center floor space for CRAC units due to its higher compute node density
- B.The Rear Door Heat Exchanger performs more efficiently than rack mounted CRAC units
- C.It has lower total power usage due to its higher efficiency cooling and power management
- D.It can adequately cool a very dense data center due to its higher efficiency cooling and power management

Correct Answers: C

19: Which of the following does NOT describe a key attribute of one of the three iDataPlex target markets?

- A.Enterprise Corporate Client large desktop client base
- B.HPC - highly skilled workers
- C.Web 2.0 - fixed application set
- D.Web 2.0 - evolving from UNIX to Linux

Correct Answers: D

20: Which of the following are a major difference between Stateful and Stateless Computing?

- A.Stateful computing is the new computing paradigm, Stateless is the traditional model
- B.Stateful has persistent connection with customer, Stateless has request based client server connection.
- C.Stateful computing applications are distributed across many servers, Stateless uses an application server model
- D.Stateful computing achieves high availability through redundant software architecture, Stateless employs redundant hardware

Correct Answers: B