



BRAINWARE UNIVERSITY

Course –MSc (HN)

Cloud Computing (MHN204)

(Semester – 2)

Time allotted: 3 Hours

Full Marks: 70

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group –A

(Multiple Choice Type Questions)

10 x 1 = 10

1. *Choose the correct alternative from the following*
 - (i) Cloud computing is
 - a. Internet based computing
 - b. Hardware based computing
 - c. Intranet based computing
 - d. Soft computing
 - (ii) IaaS is a
 - a. Cloud service model
 - b. Grid model
 - c. Cloud deployment model
 - d. None of these
 - (iii) FIC stands for
 - a. Fabric interface card
 - b. Fabric integrated card
 - c. Fabric interface chip
 - d. Fabric interface circuit
 - (iv) Google App Engine is the example of
 - a. IaaS
 - b. SaaS
 - c. PaaS
 - d. HaaS
 - (v) Hypervisor is
 - a. Thin software layer
 - b. Thin hardware layer
 - c. Operating system
 - d. Utility software
 - (vi) ToR stands for
 - a. Top of recovery switch
 - b. Top of rack switch
 - c. Top of row switch
 - d. Top of restore switch

- (vii) Functionality of SDN is provided by
- a. VMware
 - b. Cloud
 - c. Grid
 - d. Cluster
- (viii) Shared bus architecture is used in
- a. 50 bit PCI bus
 - b. 64 bit PCI bus
 - c. 80 bit PCI bus
 - d. 75 bit PCI bus
- (ix) Traditional server shelf consists of
- a. Chip set
 - b. CPU
 - c. Memory
 - d. All of these.
- (x) SOA stands for
- a. Service oriented architecture
 - b. Software oriented architecture
 - c. System oriented architecture
 - d. Software orientation architecture

Group – B

(Short Answer Type Questions)

3 x 5 = 15

Answer any *three* from the following

2. Briefly discuss about cloud deployment model. [5]
3. Give some essential features of cloud computing. [5]
4. Discuss the utility about Vswitch with a suitable block diagram. [5]
5. Briefly discuss about network function virtualization. [5]
6. Why enterprise data center has been changed to the cloud data center? [5]

Group – C

(Long Answer Type Questions)

3 x 15 = 45

Answer any *three* from the following

7. (a) What is cloud computing? How is it differ from distributed system? [2 + 4]
 (b) How many different types of services are provided by any cloud system? Explain each of them. [9]
 8. (a) Briefly describe about the various types of data center network switch with a suitable block diagram of each. [10]
 (b) What are the limitations of shared memory architecture? [5]
 9. (a) Briefly discuss about Nova and Swift. [5]
 (b) Draw the block diagram of OpenFlow controller. [5]
 (c) Describe briefly about server load balancing with a suitable block diagram. [5]
- [3 + 3]

10. (a) What is storage abstraction and storage virtualization?
(b) Briefly discuss about shared bus architecture. [5]
(c) Describe briefly about distributed storage. [4]
11. Write short notes on the following. (any three) [3 x 5]
 - (a) Open stack
 - (b) Full virtualization
 - (c) PaaS
 - (d) Cloud data center
 - (e) HaaS