

TE / VI / IT / CBCGS / 10/12/19.

(Time: 3 Hours)

[Total marks: 80]

N.B.

- 1) Question No. 1 is Compulsory. Attempt any 3 From remaining 5 Questions.
- 2) Figure to right indicate full marks.
- 3) Assume suitable data if necessary

- Q.1 a) Explain Kernel based virtualization with the help of its architecture. [10]  
b) What is Instance? Draw and explain life cycle of Instances. [10]
- Q.2 a) Explain Disaster recovery as a service. [10]  
b) Draw and Explain Openstack architecture. [10]
- Q.3 a) List & explain the advantage and disadvantages of cloud computing. [10]  
b) Explain Bigtable in GFS. [10]
- Q.4 a) Explain Xen Virtualization with the help of its architecture. [10]  
b) Explain subnet, route table and Elastic IP address with Example? [10]
- Q.5 a) Draw and explain NIST & Cube model of cloud computing. [10]  
b) Explain Simple Storage as Service and its feature. [10]
- Q.6 Solve Any Four [20]  
a) Google APIs.  
b) Explain Bucket in S3  
c) CDMI  
d) Analytics as a service  
e) Type of hypervisors.

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TE IT / SEM-VI / Choice Base / 03/12/2019

[ 3 Hours ]

[ Marks : 80 ]

Please check whether you have got the right question paper.

- N.B:
1. Question No. 1 is compulsory.
  2. Attempt any 3 from remaining questions.
  3. Assume suitable data if required.

1.
  - a. Discuss functional and Non-Functional requirements. 5
  - b. Explain the relationship among scope, schedule and budget? 5
  - c. What is Project? What are the attributes of a project? 5
  - d. Compare PERT and CPM 5
2.
  - (a) Explain how Gantt-chart can be used for planning and controlling small projects with suitable example? What are the limitations of Gantt-Chart? 10
  - (b) What are the advantages of including milestones in the WBS? Why should the WBS be deliverable oriented? 10
3.
  - (a) What is Agile methodology? Explain SCRUM. 10
  - (b) Explain the different types of testing? 10
4.
  - (a) What do you mean by Project Charter and Plan? Are they different? 10
  - (b) Suppose you are the project manager of a large software development project. Mention at least three reasons for your project delay. What are the risks associated with project delay? Perform Risk assessment and prepare RMMM plan for the same. 10
5.
  - (a) What is Function Point Analysis, explain in detail? What are its benefits in engineering process? 10
  - (b) What are the PMBOK Areas? 10
6.
  - (a) Explain Mc Call's Quality factors? 10
  - (b) Explain in detail 4P's of project management. 10



TE(VI) / IT / CBCGS / 12-12-19

(3 Hours)

(Total Marks : 80)

- N.B. : (1) Question No. 1 is compulsory.  
(2) Attempt any three from remaining five questions.  
(3) Assume suitable data, if necessary.

- Q.1 a. Explain in detail hidden terminal and exposed terminal problem with respect to WLAN. [05]  
b. What is frequency reuse principle with neat diagram? Explain it with example. [05]  
c. Assume a cellular system of 32 cells with cell radius of 1.6km, a total spectrum allocation that supports 336 traffic channels and a reuse pattern of 7. Calculate the total service area covered with this configuration, the number of channels per cell and total system capacity. Assume regular hexagonal topology. [05]  
d. Explain piconet and scatternet w.r.t Bluetooth. [05]
- Q.2 a. Explain WEP protocol in detail with neat diagram. [10]  
b. What is spread spectrum? Explain FHSS in detail. [10]
- Q.3 a. What is WLL? Explain in detail MMDS and LMDS working in WLL based technology. [10]  
b. Explain GPRS architecture in detail with neat diagram. [10]
- Q.4 a. What is Ad-hoc network? Discuss and compare MANET and VANET architecture. [10]  
b. Explain wireless multiple access techniques with suitable diagrams. [10]
- Q.5 a. Explain the evolution of cellular systems highlighting 1G/2G/3G. [10]  
b. Define threats and challenges in wireless communication. Explain different types of device security issues. [10]
- Q.6 Write a short note on the following (solve any four) : [20]  
a. Wi-Max  
b. Zigbee architecture  
c. Mobile IP  
d. UMTS architecture  
e. Wireless sensor networks architecture



TE/VI/ET/CBCGS/16-12-19  
(3 Hours)

Marks : 80

- Note: 1) Question number 1 is compulsory.  
2) Attempt any THREE from remaining questions.

- Q.1 a. What is Evidence? Explain the various types of digital evidence. 5  
b. How are ethical hackers different than malicious hackers? 5  
c. Explain importance of forensic duplication and its method. Also list some duplication tools. 5  
d. List and explain the various types of cybercrime 5
- Q.2 a. List and Explain the different types of Evidence in digital forensics. 10  
b. What is an Intrusion Detection System? Explain different types of Intrusion Detection system. 10
- Q.3 a. Explain volatile data collection procedure for windows system. 10  
b. What is Incident Response? Explain Incident Response Methodology in detail. 10
- Q.4 a. What are the steps involved in computer evidence handling? Explain in detail. 10  
b. Explain RAID technique in detail. 10
- Q.5 a. Explain guidelines for incident report writing. Give one report writing example. 10  
b. List various Digital forensic tools and explain any one tool with case study. 10
- Q.6 a. Explain procedure to investigating routers 5  
b. Explain the attacks on Network and its prevention. 5  
c. What is Cyber-crime? What are the different roles of computer with respect to cybercrime 5  
d. Explain importance of Hashing in Forensics analysis. 5

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