

**2016**

*Time : 3 hours*

*Full Marks : 100*

*Pass Marks : 40*

*Candidates are required to give their answers in their own words as far as practicable.*

*The questions are of equal value.*

*Answer any five questions.*

1. What is a Computer System ? Explain functioning of various hardware units with a labelled diagram.
2. What is Primary Memory ? Explain features of RAM and ROM.
3. Describe application software and explain uses of any two application software.
4. What do you mean by process management in a Computer System ? Explain CPU scheduling.

5. What is Computer Security ? Explain Network Security and System Security.
6. What is Software and Software Engineering ? Explain types of Software.
7. Describe software design and list out features of good design tools.
8. Define three types of computer network LAN, MAN and WAN with example.
9. Describe network topologies with their advantages and disadvantages.
10. Write short notes on any two of the following :
  - (a) Control Unit
  - (b) Internet
  - (c) Operating System
  - (d) Water fall model



SA - 1/1 (600)

(2)

VKV(3) — BCA (1)

**2017**

*Time : 3 hours*

*Full Marks : 100*

*Pass Marks : 40*

*Candidates are required to give their answers in their own words as far as practicable.*

*The questions are of equal value.*

*Answer any five questions.*

1. What are the various primary and secondary storage devices ? Explain.
2. What are input and output devices ? Discuss various types of printers in detail with their working mechanism.
3. What are the different number systems available ? Why we need these different number systems ? What is the difference between ASCII and BCD codes ?



4. What is an operating system ? What purpose do the operating systems serve to the computer and the user ? Explain the functions of an operating system.
5. What is disk scheduling ? Explain the various types of disk scheduling by giving an example.
6. What are different types of transmission mediums used in data communication system ? Compare their merits and demerits.
7. Explain the functions performed by different layers of ISO-OSI model and compare it with TCP / IP model.
8. What is the importance of models in software engineering ? Explain the process models which are commonly used with examples.
9. Discuss functional and non-functional requirements for software. Explain the Software Requirement Specification (SRS) document.

VE - 6/2

( 2 )

Contd./

10. Write short notes on the following :

- (i) Information Technology
- (ii) Network Security
- (iii) Distributed Operating System
- (iv) Data Communication



VE - 6/2 (600)

( 3 )

VKV(3) — BCA (1)

**2018**

*Time : 3 hours*

*Full Marks : 100*

*Pass Marks : 40*

*Candidates are required to give their answers in their own words as far as practicable.*

*The questions are of equal value.*

*Answer any five questions.*

1. What is computer ? Explain Von Neumann architecture of computer system with the help of diagram.
2. Explain sequential access and random access methods for accessing information from memory devices.
3. What do you mean by open source software ? Explain open source development model.
4. What do you mean by memory hierarchy ? Explain different types of memory.

5. ✓ Compare the followings in brief :
- (a) Application Software and System Software
  - (b) Compiler and Interpreter
  - (c) Batch processing and Online processing
  - (d) Internet and Intranet
6. ✓ What do you mean by operating system ?  
Explain it's basic function in brief.
7. Explain distributed and real time operating system with it's application.
8. What is SRS ? Why it is needed in software development ? Describe it's structure.
9. ✓ What is social networking sites ? Explain its advantages and disadvantages in brief.
10. ✓ Write short notes on the following :
- (a) Microwave
  - (b) Bus topology
  - (c) Gateway
  - (d) IP address

