

PSG COLLEGE OF ARTS & SCIENCE  
(AUTONOMOUS)  
BSc DEGREE EXAMINATION DECEMBER 2018  
(Sixth Semester)

Branch - ELECTRONICS

COMPUTER HARDWARE & NETWORKING

Time : Three Hours

Maximum : 75 Marks

SECTION-A (20 Marks)

Answer ALL questions

ALL questions carry EQUAL marks (10 x 2 = 20)

- 1 Differentiate AT and ATX.
- 2 Expand CISC and RISC.
- 3 Mention the use of Cache memory.
- 4 What is DIP?
- 5 State the different types of keyboards.
- 6 Define Scanning.
- 7 Give the values of horizontal and vertical sweep frequency.
- 8 Define Protocol.
- 9 Expand TCP/IP.
- 10 What is NIC?

SECTION - B (25 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks (5 x 5 = 25)

- 11 a Discuss the operation of PCI Bus.  
OR  
b Sketch the block diagram of SMPS and explain it.
- 12 a Discuss the memory packaging in PC.  
OR  
b Explain the different types of CD.
- 13 a Brief the working of a Mouse.  
OR  
b Revise the concept of Sound Blaster Card.
- 14 a Write a note on Network Operation Systems.  
OR  
b Discuss about the different types of Servers.
- 15 a Explain about DNS.  
OR  
b Discuss in detail about IP addresses.

SECTION - C (30 Marks)

Answer any THREE Questions

ALL Questions Carry EQUAL Marks (3 x 10 = 30)

- 16 Describe the functional block diagram of PC.
- 17 Illustrate the operation of HDD.
- 18 Explain the operation of Laser printer with its diagram.
- 19 Explain the different types of Networks and its Topologies.

**70 Discuss the OSI reference model in detail.**