

KENDRIYA VIDYALAYA, NEW CANTT, ALLAHABAD
COMPUTER SCIENCE
SESSION 2017-18
PERIODIC TEST-I
CLASS XI

Time: 1:30 Hrs

M.M:50

Note: i) All questions are compulsory
ii) Marks are indicated against question.

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| Q1. Explain the concept of time sharing? | 1 |
| Q2. Which port a mouse should be connected? | 1 |
| Q3. What is throughput? What is its significance in terms of system performance? | 2 |
| Q4. How is a compiler different from interpreter? | 2 |
| Q5. What do you mean by Defragmentation? | 2 |
| Q6. Distinguish between RAM & ROM | 2 |
| Q7. Convert the following binary numbers to decimal:
a) 111010 b) 111.11 | 3 |
| Q8. Convert the following decimal numbers to binary:
a) 953 b) 145 | 3 |
| Q9. Convert the following hexadecimal numbers to binary:
a) 1A1AB b) 7AB4 | 3 |
| Q10. Convert the following binary numbers to hexadecimal:
a) 1110011001101 b) 1111111111101 | 3 |
| Q11. Convert the following hexadecimal numbers to decimal:
a) A6 b) A13B | 3 |
| Q12. Convert the following decimal numbers to hexadecimal:
a) 17864 b) 2352 | 3 |
| Q13. Convert the following hexadecimal numbers to octal:
a) 7FD6 b) ABCD | 3 |
| Q14. Convert the following octal numbers to binary:
a) 7015 b) 3576 | 3 |
| Q15. Convert the following binary numbers to octal:
a) 111010 b) 1101100001 | 3 |
| Q16. Find the 8-bit two's complement form of the following decimal numbers:
a) -52 b) -123 | 3 |
| Q17. Briefly explain the basic architecture of a computer? | 3 |
| Q18. Give full forms of the following:
RAM, ROM, PROM, EPROM, EEPROM, DRAM | 3 |
| Q19. What is an operating system? What are its functions, briefly explain any six? | 4 |