

Information & Communication Technology Model Questions**Number systems 2**

1. Convert following binary numbers to octal

- | | | |
|--------------|---------------|---------------|
| (1) 101 | (2) 101111 | (3) 1000101 |
| (4) 10000001 | (5) 101010101 | (6) 000001101 |

2. Convert following octal numbers to binary

- | | | |
|----------|----------|----------|
| (1) 134 | (2) 254 | (3) 2212 |
| (4) 4360 | (5) 4001 | (6) 0074 |

3. Convert following hexadecimal numbers to binary

- | | | |
|----------|----------|----------|
| (1) 9 | (2) 131 | (3) 6A4 |
| (4) 1010 | (5) B23A | (6) F01C |

4. Convert following binary numbers to hexadecimal

- | | | |
|----------------|------------------|---------------------|
| (1) 1001 | (2) 11001011 | (3) 111100001 |
| (4) 0001101111 | (5) 101011001001 | (6) 100011101100110 |

5. Convert following octal numbers to hexadecimal

- | | | |
|-----------|-----------|------------|
| (1) 7 | (2) 10 | (3) 106 |
| (4) 6772 | (5) 70004 | (6) 100011 |
| (7) 45102 | (8) 22013 | (9) 657143 |

6. Convert following hexadecimal numbers to octal

- | | | |
|----------|----------|-----------|
| (1) 8 | (2) 10 | (3) 101 |
| (4) 16 | (5) 1A4 | (6) 7A4C |
| (7) BC49 | (8) 4BD0 | (9) E01BF |

7. Convert following binary numbers to decimal

- | | | |
|--------------|---------------|----------------|
| (1) 11.1 | (2) 10.01 | (3) 1.101 |
| (4) 1.1101 | (5) 101.1011 | (6) 101.1011 |
| (7) 101.1111 | (8) 1011.1001 | (9) 1011.10011 |

8. Convert following decimal numbers to binary

- | | | |
|-------------|-------------|------------|
| (1) 2.5 | (2) 12.25 | (3) 15.125 |
| (4) 20.0625 | (5) 14.75 | (6) 26.625 |
| (7) 38.5625 | (8) 39.1875 | (9) 41.875 |



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9. Convert following octal numbers to decimal

- | | | |
|------------|------------|-------------|
| (1) 4.5 | (2) 23.13 | (3) 25.024 |
| (4) 22.213 | (5) 42.617 | (6) 51.7005 |

10. Convert following decimal numbers to octal

- | | | |
|---------------------|---------------|------------------|
| (1) 6.125 | (2) 31.015625 | (3) 42.00195313 |
| (4) 89.625 | (5) 67.109375 | (6) 84.296875 |
| (4) 58.000244140625 | (5) 42.140625 | (6) 151.14257813 |

11. Convert following decimal numbers to BCD

- | | | |
|-----------|-----------|-----------|
| (1) 4 | (2) 10 | (3) 42 |
| (4) 426 | (5) 749 | (6) 3651 |
| (7) 10011 | (8) 50924 | (9) 97632 |

12. Find the 7bit ASCII value equivalents to the following Alpha Numeric symbols.

- | | | |
|-------|-------|---------|
| (1) 6 | (2) A | (3) a |
| (4) @ | (5) % | (6) R |
| (7) p | (8) ! | (9) ESC |

