**United College of Engineering and Research, Allahabad**

**Department of Computer Science & Engineering**

**B.Tech CSE- IV Semester**

**Quiz-4**

**Course Name:** Discrete Structure and Theory of Logic  **AKTU Course Code:**KCS-303

**Time: 20 Minutes Max. Marks: 10**

* **All Questions are compulsory.**
* **All Questions carry one mark.**

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| **Q. No.** | **Questions** | **CO** |
| **1** | Which of the following sentence is a proposition? a) Get me a glass of milkshake b) God bless you! c) What is the time now? d) The only odd prime number is 2 | **CO4** |
| **2** | The truth value of ‘4+3=7 or 5 is not prime’. a) False b) True | **CO4** |
| **3** | Which of the following option is true? a) If the Sun is a planet, elephants will fly b) 3 +2 = 8 if 5-2 = 7 c) 1 > 3 and 3 is a positive integer d) -2 > 3 or 3 is a negative integer | **CO4** |
| **4** | What is the value of x after this statement, assuming the initial value of x is 5? **‘If x equals to one then x=x+2 else x=0’.** a) 1 b) 3 c) 0 d) 2 | **CO4** |
| **5** | Let P: If Sahil bowls, Saurabh hits a century.; Q: If Raju bowls, Sahil gets out on first ball. Now if P is true and Q is false then which of the following can be true? a) Raju bowled and Sahil got out on first ball b) Raju did not bowled c) Sahil bowled and Saurabh hits a century d) Sahil bowled and Saurabh got out | **CO4** |
| **6** | The truth value ‘9 is prime then 3 is even’. a) False b) True | **CO4** |
| **7** | Let P: I am in Delhi.; Q: Delhi is clean.; then q ^ p(q and p) is? a) Delhi is clean and I am in Delhi b) Delhi is not clean or I am in Delhi c) I am in Delhi and Delhi is not clean d) Delhi is clean but I am in Mumbai | **CO4** |
| **8** | Let P: This is a great website, Q: You should not come back here. Then ‘This is a great website and you should come back here.’ is best represented by? a) ~P V ~Q b) P ∧ ~Q c) P V Q d) P ∧ Q | **CO4** |
| **9** | Let P: We should be honest., Q: We should be dedicated., R: We should be overconfident. Then ‘We should be honest or dedicated but not overconfident.’ is best represented by? a) ~P V ~Q V R b) P ∧ ~Q ∧ R c) P V Q ∧ R d) P V Q ∧ ~R | **CO4** |
| **10** | Let P: I am in Bangalore.; Q: I love cricket.; then q -> p is? a) If I love cricket then I am in Bangalore b) If I am in Bangalore then I love cricket c) I am not in Bangalore d) I love cricket | **CO4** |

Answer

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| 1-D | 2-B | 3-A | 4-C | 5-C | 6-B | 7- A | 8-B | 9-D | 10-A |