IIIT Chittoor, Sri City.

ToC; Quiz-3; Your Roll No: \_\_Your Name:

For each statement find out whether it is True or False. Write your answer in the given space only {which is in the reverse side of this page}. Correct answer will get +1 mark, wrong answer will get –1 mark. For rough-work use the given cancelled additional sheet.

1. **is in .**
2. **is in .**
3. **.**
4. **is in .**
5. **is in .**
6. **is not in .**
7. **is not in .**
8. **is in .**
9. **.**

Big answer question. {Write your answer, in reverse side of this page, in the given space only}

1. **(a)** Give a mapping reduction from to , Where is complement of the language . Give block diagram clearly stating the mapping reduction {Ugly answers can get – ve marks}.

**(b)** Can you specifically say, by giving an appropriate Venn diagram, in which class of languages is?

**(c)** Can you specifically say, by giving an appropriate Venn diagram, in which class of languages is?

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Q No.** | Answer | **Q No.** | Answer | **Q No.** | Answer |
| **1** |  | **6** |  | **11** |  |
| **2** |  | **7** |  | **12** |  |
| **3** |  | **8** |  | **13** |  |
| **4** |  | **9** |  | **14** |  |
| **5** |  | **10** |  | **15** |  |

Clearly write TRUE or FALSE {Correct answer will get +1 mark; Wrong answer will get –1 mark}.

**16.**