

**APPLICATION FORMAT**

**For the Post of Advisor (Secretarial) in Coal India Limited**

1. Name ( in block letter):
2. EIS No. ( if retired from CIL):
3. Father's Name:
4. Present address for communication:
5. Contact No. a) Telephone:  
b) Mobile:
6. E-mail ID:
7. Permanent Address:
8. Caste (Gen/ SC/ST/OBC):

9. Date of Birth:

10. Educational Qualification:

11. Experience:

12. Details as prescribed below:

Name of Organisation/ Deptt.	Last Post Held	Grade	Basic Pay with Grade Pay (where applicable)	Discipline	Period of last post held	Remark

13. Special Achievement (if any):

14. Details of any Departmental Case or Court Case (if pending):

15. Superannuation Notice No. & Date:

16. Any Other Information relevant to the Post

**Signature of the Candidate with date**

List of Enclosures:

# THEORY OF COMPUTATION

## UNIT I: FINITE AUTOMATA

1.1 Introduction

1.2 Deterministic Finite Automata (DFA)

1.3 Non-deterministic Finite Automata (NFA)

1.4 Conversion of NFA to DFA

1.5 Pumping Lemma

1.6 Regular Expressions

1.7 Closure Properties

1.8 Summary

1.9 Exercises

1.10 Further Reading

1.11 References

1.12 Appendix

## UNIT II: PULLING LEMMA

2.1 Statement of Pumping Lemma

2.2 Proof

2.3 Examples

2.4 Applications

2.5 Summary

2.6 Exercises

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2.8 References

2.9 Appendix

## UNIT III: REGULAR EXPRESSIONS

3.1 Introduction

3.2 Basic Operations

3.3 Closure Properties

3.4 Summary