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| **ASSIGNMENT** | |
| **Course Code** | 19CSC211A |
| **Course Name** | Formal Languages and Automata Theory |
| **Programme** | B-Tech |
| **Department** | Computer Science and Engineering |
| **Faculty** | Faculty of Engineering and Technology |

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| **Name of the Student** | Tanishq R Porwar |
| **Reg. No** | 18ETCS002131 |
| **Semester/Year** | 4th semester /2nd year |
| **Course Leader/s** | Prakash P |

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| **Declaration Sheet** | | | | | | | | |
| Student Name | Tanishq R Porwar | | | | | | | |
| Reg. No | 18ETCS002131 | | | | | | | |
| Programme | B. Tech | | | | | Semester/Year | 4th semester /2nd year | |
| Course Code | CSC211A | | | | | | | |
| Course Title | FORMAL LANGUAGES AND AUTOMATA THEORY | | | | | | | |
| Course Date |  | | to | |  | | | |
| Course Leader | Prakash P | | | | | | | |
| **Declaration**  The assignment submitted herewith is a result of my own investigations and that I have conformed to the guidelines against plagiarism as laid out in the Student Handbook. All sections of the text and results, which have been obtained from other sources, are fully referenced. I understand that cheating and plagiarism constitute a breach of University regulations and will be dealt with accordingly. | | | | | | | | |
| Signature of the Student | |  | | | | | Date | May 20, 2020 |
| Submission date stamp  (by Examination & Assessment Section) | |  | | | | | | |
| Signature of the Course Leader and date | | | | Signature of the Reviewer and date | | | | |
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# **Question No. 1**

**Solution to Question No. 1:**

The PDA we created from the following CFG.

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| **Non-Terminals (Variables)** | **Terminals** |
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Where the productions are,

Let the equivalent PDA,

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