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| **PLEASE ANSWER ALL QUESTIONS.** | **Total 20 Marks** |

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| **QUESTION 1**  Perform the following binary operations:   1. (1100000)2 - (1011111)2 2. (10111)2 ÷ (101)2 3. (1100)2 × (1101)2 | 7 marks |
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| **QUESTION 2**  Write Short notes on the following topics. Also provide at least one example for each of them:   1. Push Technology and Pull Technology 2. Cloud Computing 3. Impact printers and Non-impact printers | 7 marks |
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| **QUESTION 3**  A software reads an English passage from a text file (say englishPassage). Afterwards it translates the passage into Bangla (say banglaPassage). It stores the translated Bangla text into another file. Briefly describe the data flow when the software is running. | 4 marks |
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| **QUESTION 4**  Write the impacts and applications of computers in education and healthcare. | 2 marks |
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| **\*\*END OF QUESTIONS\*\*** | |