**CROSSWORD PUZZLE –V**

Designed by Pratibha Pai

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| **1** |  |  | **2** |  |  | **3** |  | **4** | **5** |  |
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| **7** |  |  |  |  |  |  |  |  |  |  |
|  |  | **8** |  |  |  | **9** | **10** |  |  |  |
| **11** |  |  |  |  |  |  |  |  |  | **12** |
|  |  |  |  |  | **13** |  | **14** |  |  |  |
|  |  |  | **15** |  |  |  |  |  |  |  |
| **16** |  |  |  |  |  |  | **17** |  |  |  |
|  |  |  | **18** |  |  |  |  |  |  |  |
| **19** |  |  |  |  |  |  | **20** |  |  |  |

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|  | Puzzle V MENU |  |  |  |  |  |
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|  | **Across** |  | **Down** |  |  |  |
| 1 | Add with carry(3) | 2 | Copy data from C register to accumulator(5) | | | |
| 6 | Do not perform any operations(3) | 3 | Move immediately data to D register(4) | | | |
| 8 | Rotate accumulator content right as 9 bit data(3) | 4 | Send data from port to accumulator(2) | |  |  |
| 9 | Add HL contents to itself(4) | 5 | Transfer data from memory location to H register(5) | | | |
| 11 | Logically AND accumulator content with C  register (4) | 7 | Clear accumulator using logical operation(4) | |  |  |
| 13 | Compare immediately 8 bit data (3) | 12 | Move data from memory location to D register(5) | | | |
| 15 | Jump if plus(2) | 14 | **Upwards**-same as 4 Down(2) | |  |  |
| 16 | Decimal adjust addition(3) | 15 | Jump if no carry is generated(3) | |  |  |
| 17 | Subtract with borrow D register(3) | 17 | **Upwards**-Subtract immediate(3) | |  |  |
| 18 | Same as 13 Across(3) | 17 | **Down-**Set carry flag(3) | | | |
| 19 | Clear accumulator using arithmetic operation(4) |  |  | | | |
| 20 | Complement carry flag(3) |  | | | |

Solution at the end

**CROSSWORD PUZZLE –VI**

Designed by Pratibha Pai

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| **1** |  | **2** |  | **3** |  |  |  | **4** |  |  |
|  |  | **5** |  |  |  |  | **6** |  |  |  |
|  |  |  |  |  | **7** | **8** |  |  |  | **9** |
|  | **10** |  |  | **11** |  |  | **12** |  |  |  |
| **13** |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | **14** |  |  | **15** |  |  |  |
| **16** |  | **17** |  |  |  | **18** |  |  |  | **19** |
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|  | Puzzle VI MENU | | |  |
|  | **Across** |  | **Down** |
| 5 | Logically OR immediate data with accumulator(3) | 1 | Jump if parity is odd(3) |
| 6 | Jump to a location if zero flag is not set(3) | 2 | Copy data from accumulator to H register (5) |
| 7 | Jump if the data is negative(2) | 3 | Enable interrupt(2) |
| 10 | Store HL pair direct(4) | 4 | Logically AND accumulator content with itself(4) |
| 12 | Rotate accumulator content left as 9 bit(3) | 8 | Transfer data in C register to D register(5) |
| 13 | Store accumulator in memory(3) | 9 | Rotate accumulator content left without carry(3) |
| 14 | Add C register content to accumulator(4) | 10 | Store accumulator content in register pair(4) |
| 16 | Set HL pair as memory pointer(4) | 11 | Decimal adjust accumulator after addition(3) |
| 18 | Complement accumulator data(3) | 15 | Compare A register content with B register content(4) |
| 20 | Find the difference B register and A register and store in A(4) | 16 | Load data from memory to accumulator(3) |
|  |  | 17 | Copy data from port to accumulator(2) |
|  |  | 19 | Don’t perform any operation(3) |

**Solution**

**PUZZLE –V PUZZLE –VI**

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| **1**  **A** | **D** | **C** | **2**  **M** | **A** |  | **3**  **M** | **V** | **4**  **I** | **5**  **M** |  |
|  |  |  | **O** |  |  | **V** |  | **6**  **N** | **O** | **P** |
| **7**  **X** |  |  | **V** |  |  | **I** |  |  | **V** |  |
| **R** |  | **8 R** | **A** | **R** |  | **9**  **D** | **10**  **A** | **D** | **H** |  |
| **11**  **A** | **N** | **A** | **C** |  |  |  | **N** |  | **M** | **12**  **M** |
| **A** |  | **R** |  |  | **13**  **C** | **P** | **14**  **I** |  |  | **O** |
|  |  |  | **15**  **J** | **P** |  |  | **U** |  |  | **V** |
| **16**  **D** | **A** | **A** | **N** |  |  |  | **17**  **S** | **B** | **B** | **D** |
|  |  |  | **18**  **C** | **P** | **I** |  | **T** |  |  | **M** |
| **19**  **S** | **U** | **B** | **A** |  |  |  | **20**  **C** | **M** | **C** |  |

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| **1**  **J** |  | **2**  **M** |  | **3**  **E** |  |  |  | **4**  **A** |  |  |
| **P** |  | **5**  **O** | **R** | **I** |  |  | **6**  **J** | **N** | **Z** |  |
| **O** |  | **V** |  |  | **7**  **J** | **8**  **M** |  | **A** |  | **9**  **R** |
|  | **10**  **S** | **H** | **L** | **11**  **D** |  | **O** | **12 R** | **A** | **L** | **L** |
| **13**  **S** | **T** | **A** |  | **A** |  | **V** |  |  |  | **C** |
|  | **A** |  |  | **14**  **A** | **D** | **D** | **15**  **C** |  |  |  |
| **16**  **L** | **X** | **17**  **I** | **H** |  |  | **18**  **C** | **M** | **A** |  | **19**  **N** |
| **D** |  | **N** |  |  |  |  | **P** |  |  | **O** |
| **A** |  |  |  | **20**  **S** | **U** | **B** | **B** |  |  | **P** |