INDIAN SCHOOL MUSCAT
HALF YEARLY EXAMINATION
SEPTEMBER 2019
CLASS XI
Marking Scheme - Computer Science

| QNO | Answers | Marks |
| :---: | :---: | :---: |
| 1 a | CPU (ALU, Registers, Control Unit), Memory, input unit, output unit, Storage unit etc. 1 m for the correct answer | 1 |
| b | 1 m for definition and 1 m for correct types | 2 |
| c | 1 m for correct answer | 1 |
| d | 2 m for correct answer | 2 |
| e | Any 2 difference 1 m each for correct answer | 2 |
| 2 a | i. $\mathrm{X}^{\prime}+\mathrm{Y} . \mathrm{X}+\mathrm{Y} . \mathrm{X}+\mathrm{Y}$ ' <br> ii. (A.1).(A+0+A') <br> 1 m each for correct answer | 2 |
| b | 2 m for correct design and symbols | 2 |
| c | 1 m for definition and 2 m for truth table | 3 |
| 3 a | 1 m for correct answer | 1 |
| b | 1 m for correct answer | 1 |
| c | 1 m each for correct answer. | 2 |
| d | 1 m each for correct answer | 2 |
| e | 2 m for correct answer | 2 |
| f | Correct symbols and correct logic 1 m each | 2 |
| 4 a | 1 m for correct answer | 1 |
| b | 1 m for correct answer | 1 |
| c | 1 m for correct answer | 2 |
| d | 1 m for difference and 1 m for example | 2 |
| e | 1 m each for the correct answer | 2 |
| f | $\begin{aligned} & 1525 \\ & 1450 \\ & 1 / 2 \mathrm{~m} \text { each for correct answer } \end{aligned}$ | 2 |
| 5 a | 1 m for correct answer | 1 |


| b | 1 m for correct answer | 1 |
| :---: | :---: | :---: |
| c | 28242016 | 2 |
| d | Find errors in the following code (if any) and correct it. Rewrite the correct code. <br> i. $\begin{aligned} & a, b, c=10,20,4 \\ & x=a+b c+a^{*} c--b^{*} c \end{aligned}$ <br> ii. age=int(input('Enter any character '")) <br> if age $>18$ : <br> print("Major") <br> elif age < 18: <br> print("Senior") <br> else: <br> PRINT("Minor") $\quad-\rightarrow$ print <br> $1 / 2 \mathrm{~m}$ for each error | 2 |
| e | $\begin{aligned} & {[8,2,24,4,5,24]} \\ & {[24,4,5]} \end{aligned}$ $1 \mathrm{~m} \text { each for each line }$ | 2 |
| f | ```\(\mathrm{N}=20\) sum \(=0\) for i in range \((1,20,3)\) : if \(i \% 2==0\) : sum \(=\) sum +i print(sum) \\ Output is 30 \\ 2 m for for loop and 1 m for output``` | 3 |
| 6 a | Difference 2 m and exception 1m. | 3 |
| b | for correct initialization, test condition \& nested loop 1 m each | 3 |
| c |  | 3 |
| d | 1 m for explanation and eg. 2 m for correct output | 3 |
| 7 a | 1 m for input statement <br> 1 m for loop <br> 1 m for getting the number in reverse <br> 1 m for print statement | 4 |
| b | 1 m for input statement 1 m for loop <br> 1 m for getting the number in reverse | 4 |


|  | 1 m for print statement |  |
| :--- | :--- | :--- |
| c | 1 m for input statement <br> 1 m for loop <br> 1 m for getting the number in reverse <br> 1 m for print statement | 4 |
|  | End of the Question Paper |  |

