## Indian School Al Wadi Al Kabir

## Assessment 1 <br> INFORMATICS PRACTICES (Code: 065)

Class : XI
Date: 29/09/2022

Time: 3 Hours
Max. Marks : 70

General Instructions:

- The question paper is divided into 3 sections - $\mathrm{A}, \mathrm{B}$ and C
- Section A, consists of 14 questions (1-14). Each question carries 2 marks.
- Section B, consists of 6 questions (15-20). Each question carries 3 marks.
- Section C, consists of 6 questions (21-26). Each question carries 4 marks.

|  |  | Section -A <br> Each question carries 2 marks |  |
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| $\begin{gathered} \text { Q. } \\ \text { No. } \end{gathered}$ | Part No. | Question | Marks |
| 1 | (a) | Identify the invalid identifiers from the following and write the reason(s): <br> a) Price 20 <br> b) 3Rate <br> c) Max\$Mark <br> d) _isMarried | (1) |
|  | (b) | Identify the odd one out from the following: <br> a) and <br> b) or <br> c) $==$ <br> d) not | (1) |
| 2 | (a) | Identify the Odd one out from the following: <br> a) monitor <br> b) speaker <br> c) Mouse <br> d) printer | (1) |
|  | (b) | The $\qquad$ concept was a general purpose programmable machine that was capable to solve any problem by executing the program stored on the punched cards. | (1) |
| 3 |  | What is a Memory Unit? Write any two units for measuring the memory size. | (2) |
| 4 |  | Define: Operating System. Also write any 2 popular operating systems. | (2) |
| 5 |  | What is secondary memory? Write any 2 examples of secondary memory. | (2) |
| 6 |  | Write a short note on Free and Open Source Software and Proprietary Software | (2) |
| 7 |  | Identify errors in the following code (if any) and correct the code by underlining each corrections. <br> N = INT(input("Enter a Number? ")) \#Line 1 <br> for $K$ in Range (10,60, 15) \#Line 2 <br> print("K = ", K) \#Line 3 <br> Print("Last K Value = ", K) \#Line 4 | (2) |
| 8 |  | How many times the following loop will executes? $\begin{aligned} & \mathrm{I}, \mathrm{~J}, \mathrm{~K}=30,55,10 \\ & \text { for } \mathrm{L} \text { in range( }(\mathrm{I}, \mathrm{~J}) \text { : } \\ & \quad \operatorname{print({}^{\prime }\mathrm {L}={}^{\prime },\mathrm {L})} \\ & \operatorname{print(I^{*}\mathrm {K})} \end{aligned}$ | (2) |
| 9 |  | Define Tokens and write the examples with the various types of tokens. | (2) |
| 10 |  | Evaluate the following expressions: <br> i) $15+4 * 10+20 / 4$ <br> ii) $\quad(30+20) * 2$ <br> iii) $40+(10-5) / / 10$ | (2) |


|  |  | iv) $5+3-40 * 3 / / 2 * * 3$ |  |
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| 11 |  | Evaluate the following expressions: If the values are $A=$ True,$B=$ False,$C=$ True <br> a) $A$ or $B$ and (not C) <br> b) $\operatorname{not} A$ and $B$ or $C$ <br> c) A and B and not C | (2) |
| 12 |  | Write a Python program that reads a distance in centimeters, convert and print it in form : Meters and Centimeters. <br> For example if centimeters $=430$ <br> Output should be -4 Meters and 30 centimeters. | (2) |
| 13 |  | Identify the error in the following code and rewrite the correct code with underlining each corrections. <br> $\mathrm{L}=\operatorname{Int}($ input $($ ) $)$ <br> $\mathrm{M}=\operatorname{int}(\operatorname{INPUT}())$ <br> $\mathrm{N}=\operatorname{int}($ input()) <br> if ( $L<M$ and $L<N$ ) <br> print("L is minimum") <br> elif $(\mathrm{M}<\mathrm{N})$ : <br> print(" $M$ in minimum") <br> ELSE: <br> print(" N is minimum") | (2) |
| 14 |  | Identify the error in the following code and rewrite the correct code with underlining each corrections. <br> Key = Eval(input()) <br> if Key\%10 = 0 : <br> print(Key*5) <br> else <br> PRINT(Key*3) | (2) |
|  |  | SECTION - B <br> Each question carries 3 marks |  |
| 15 | (a) | What will be the output of the following code segment? $\begin{aligned} & \mathrm{b}=50+\operatorname{int}(10+6 / 3) \\ & \mathrm{c}=50+\text { float }(10+6 / / 3) \\ & \operatorname{print}(\mathrm{b}, \mathrm{c}) \end{aligned}$ | (2) |
|  | (b) | What will be the output of the following code? $\begin{aligned} & P=75 \\ & P, Q=P+25, P+50 \\ & \operatorname{print}(P, \text { end='\#') } \\ & \operatorname{print}(Q) \end{aligned}$ | (1) |
| 16 |  | ```Write the output of the following code fragment if i) value of C=25 ii) value of C=10 iii) value of C=30 C=int(input("Enter the value of C ? ")) if(C%10 == 0): Ans=C*8 else: Ans=C**2 print("Answer = ",Ans)``` | (3) |
| 17 |  | Write the output of the following code fragment if value of Billamt=600 Billamt=int(input("Enter the Bill Amount? ")) <br> if(Billamt < 500): | (3) |


|  |  | ```discount = Billamt * \(10 / 100\) elif(Billamt<1000): discount = Billamt * 8 / 100 elif(Billamt<1500): discount \(=\) Billamt * 5 / 100 else: discount \(=\) Billamt * 2 / 100 netamt \(=\) Billamt - discount print("Discount = ",discount) print("Net Amount Payable = ",netamt)``` |  |
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| 18 |  | ```Write the output of the following code fragment if i) value of \(D=60\) ii) value of \(D=20\) iii) value of \(D=175\) D=int(input()) if( \(D<50\) ): \(D=D+100\) elif( \(D<100\) ): \(D=D+200\) elif( \(\mathrm{D}<150\) ): \(D=D+300\) else: \(D=D+500\) print("Result = ",D)``` | (3) |
| 19 |  | Find the output of the following code. $\begin{aligned} & A, B, C=20,50,15 \\ & D=0 \end{aligned}$ <br> for $K$ in range $(A, B, C)$ : $D=D+B$ <br> print("Result =", D) | (3) |
| 20 | (i) <br> (ii) <br> (iii) | Find the No. times the following loops executes: for $K$ in range $(11,15)$ : <br> print(K) <br> for I in range(5, 20, 5): <br> print(l, end=" $\backslash \mathrm{t}$ ") <br> for J in range(200, 100, -50): <br> print(J, end="\n") | (3) |
|  |  | Section C <br> Each question carries 4 marks |  |
| 21 | (a) | Write a program to input sale amount achieved by a salesman, calculate and display his / her commission amount ( $20 \%$ of sale amount). | (2) |
|  | (b) | Write a program to find and display area of a rectangle. Area $=$ length $X$ breadth | (2) |
| 22 | (a) | Write a program to input a number N and check it is divisible by 5 or not using if..else statement:. | (2) |
|  | (b) | Write a program to input a number DATA and check it is odd or even. | (2) |
| 23 |  | Write a Python program to input basic salary of an employee and calculate the Special Incentive based on the following criteria: <br> (use if..elif..else statement) | (4) |


|  | Basic Salary Special Incentive <br> Less than 10000 $15 \%$ of Basic Salary <br> Between 10000 and 19999 $25 \%$ of Basic Salary <br> Between 20000 and 49999 $35 \%$ of Basic Salary <br> Otherwise $50 \%$ of Basic Salary |  |
| :---: | :---: | :---: |
| 24 | Write a Python program to input a Number and display the result based on the following criteria: <br> (use if..elif..else statement) | (4) |
| 25 | Write a program to display all the multiples of 4 in the range $10-50$ using for loop. $12,16,20,24, \ldots . . . . ., 48$ | (4) |
| 26 | Write a program to display the sum of the following series: $1+3+5+\ldots \ldots .+25$ | (4) |

