



مدرستنا الثانوية الإنجليزية، الشارقة (فرع البنين)

OUR OWN ENGLISH HIGH SCHOOL,

SHARJAH ( BOYS' BRANCH)

TERM1 EXAMINATION, OCT 2020  
INFORMATICS PRACTICES



Name:  
Class: XI  
Sec:

Max Marks: 35  
Duration: 1 hrs 30min  
Date: 11/10/2020

**General Instructions:**

- (i) All questions are compulsory.
- (ii) Programming language: Python
- (iii) This paper consists of 4 pages.

1)a)	Explain IPO cycle with the help of a block diagram of computer organization.	[1]
b)	Differentiate between SRAM and DRAM	[1]
c)	Rajesh download a Puzzle game on his laptop. He was prompted with 2 options "Run" and "Save" the file. He clicked on "Run" , some files processed and launched the game . Can you identify which of the following files helped Rajesh to launch the game. i) Puzzle.txt ii) Puzzle.dll iii) Puzzle.exe	[1]
d)	How ASCII-7 is different from ASCII-8?	[1]
e)	Name the following: i) The part of system bus that carries instructions _____ ii) Antivirus, Disk Defragment are examples of _____	[1]
2)a)	Evaluate the following expression: $48 \% 3 ** 3 // 5 + 2$	[1]
b)	Write a program to convert the time entered as minutes to Hours : Minutes format. Example : Enter the time in minutes: 66 Hours : Minutes 1 : 6	[1]
c)	Find the output of the following statements : i) <code>print('Learning\nIP')</code> ii) <code>print(100+False)</code>	[1]

d)	Find the ououtput. <pre> a,b,c=20,40,60 b+=10 c+=b print(b,c) </pre>	[1]																									
e)	Rewrite the following code in python after removing all syntax error(s). Underline each correction done in the code. <pre> a,b=10=10 c=a+b While c=&lt;20:     print(c , End = “*”) c+=10 </pre>	[2]																									
3)a)	Fill in the blanks to execute loop from 10 to 100 and 10 to 1 i) for I in range (_____): print(i) ii) for I in range(_____): print(i)	[1]																									
b)	Write a program to generate the following pattern. <table border="1" data-bbox="651 940 898 1136" style="margin-left: auto; margin-right: auto;"> <tr><td>D</td><td></td><td></td><td></td><td></td></tr> <tr><td>d</td><td>a</td><td></td><td></td><td></td></tr> <tr><td>d</td><td>a</td><td>n</td><td></td><td></td></tr> <tr><td>d</td><td>a</td><td>n</td><td>c</td><td></td></tr> <tr><td>d</td><td>a</td><td>n</td><td>c</td><td>e</td></tr> </table>	D					d	a				d	a	n			d	a	n	c		d	a	n	c	e	[2]
D																											
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c)	Convert the following code using while loop.  <pre> L=[90,"Saamil",67,"Raashid",100,"Raj"] for i in range(len(L)):     if i%2==0:         print(L[i]) </pre>	[2]																									
d)	Write the output from the following code: <pre> s = 'Indian FESTIVALS' i = 0 while i&lt;len(s):     if (s[i].islower()):         print (s[i].upper(), end=“ “)     if (s[i].isupper()):         print s[i].lower(), end=“ “)     i +=1 </pre>	[1]																									
e)	Write a program to input any string with space and convert lowercase to uppcase and vice versa. And space must be replaced with '@'.	[2]																									

	Example : Enter the string : OOB gemsedu Converted string: oob@GEMSEDU	
4a)	Write a program to accept a first name, middle name and Last name of an employee and display only the first letter of first and middle name with complete last name as shown in the below example. Example : Enter Name : Raj Kumar Sharma Output : R.K.Sharma	[1]
b)	Differentiate string from a list with a good example.	[2]
c)	Write a program to count the number of vowels in a string. Example : Enter a string : COVID19 IS A Pandemic Number of vowels are : 7	[2]
d)	What will be the output of the following code?  str="Hello Python" print(str) print(str[0]) print(str[2:8]) print(str[3:]) print(str*2) print(str+"string")	[2]
e)	Find the output for the following code.  a="informatics4.com" for i in range(len(a)): if (a[i].isalpha()): print(a[i-1],end='') if (a[i].isdigit()): print(a[i],end='')	[2]
5)a)	Write a program to input a sequence of numbers from a user and find the largest number .  Example : Enter the elements : [5,20,100,34,78,99] Largest Number : 100	[2]
b)	Rahul has executed the following code to retrieve the position "Saahil" in the given list. Help Rahul to search the position of "Saahil".  L=["Abhiram","Aadil","Basheer","Saahil","Furqan"]  Output: Saahil is secured 4 <sup>th</sup> position in running.	[2]

c)	<p>Write a menu driven program to enter the price of each item in a list. If the customer pays 500 AED , then the bill should generate as shown below.</p> <p>Example:</p> <p>Enter the price of Item:78</p> <p>Do you want to continue (y/n):y</p> <p>Enter the price of Item:100</p> <p>Do you want to continue (y/n):y</p> <p>Enter the price of Item:67</p> <p>Do you want to continue (y/n):n</p> <p>*****BILL*****</p> <p>Number of items: 3  Item of highest price: 100  Total: 245  Balance: 255</p>	[3]
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