Class – X Computer Application (165) Sample Paper

Max. Marks: 30

Duration: 2 hrs.

General Instructions:

- The paper contains 4 sections Section A, Section B and Section C and Section D
- Section A and B has to be attempted by all students.
- Students may attempt any one of the two Section C (Scratch) OR Section D (Python)

Q No.	<u>Section – A</u>	Marks
1	Expand SMTP.	1
2	Consider the following HTML statement: <body alink="red" bgcolor="Blue" vlink="yellow"> In the above statement, what do you mean by 'alink' and 'vlink'?</body>	1
3	Rashmi has to send an email to Raees. She also wants to send the same e-mail to Vandana but does not want Raees to know about it. Which option out of 'cc' or 'bcc' should Rashmi use to enter the email address of Vandana?	1
4	Geetu is an artist. She posts her artwork on the internet. One day she comes to know that Shreyas has downloaded one of the paintings that she had posted without her permission. He had further printed that image on an invitation card. Has Shreyas done the right thing? Which right of Geetu has he infringed?	1
	OR	
	Define plagiarism.	
5	Give one difference between 3G and 4G.	1
6	Define the term Digital Divide.	1
7	Ritwik wants to use a software but does not want to pay for it. Which type of software can he use?	1
	<u>Section – B</u>	
8	Write any one application each of e-Governance and e-commerce.	2
9	Kuhu has just learnt how to do online banking. Name any two precautions that she should take to prevent online fraud.	2
10	Name the following with respect to HTML: a. Attribute for changing bullet type of list tag. b. Element to create a hyperlink	2
11	Write HTML code to display the unordered list (with square bullets) of two cities	2

	"DELHI" and "MUMBAI". The web page should have a yellow background and the title of the page should be 'My Cities' OR	
	Write HTML code to display an ordered list (with uppercase roman numbers) listing any three subjects being taught in your school. The web page should have a red background and the title of the page should be 'My Subjects'	
12	Form a CSS code within the <head></head> for the following specifications: Background colour : blue For the paragraph, font family is Dotum and colour of the text is red Heading should be in black colour	2
13	 Write the HTML code to do the following: a. To display a horizontal line of green colour. b. To create a hyperlink on the word CLICK to an image named testimage.jpeg 	2
14	Write output of the following HTML code. <html> <head> <title> Table </title> </head> <body></body></html>	3
	OR Observe the following table and write the HTML code to generate it:	
	SERIALNO NUMBER OF STUDENTS ENGLISH HINDI REGIONAL 1 X A 35 10 2 X B 31 15	

	<u>Section – C (Scratch)</u>	
15	Differentiate between	2
	Differentiate between if then and if then blocks.	
16	Study the scripts given below and answer the questions.	4
(i)	What will be the final position of the cat (Scratch mascot) after running the following script?	1
(ii)	What happens when the sprite does not touch the edge of the stage?	1

(iii)	In question (ii) above, what happens when the sprite touches the edges.	2
17	Name the tab and category of blocks that should be selected to do the following:	2
	(i) Ask the user's name	
	(ii) Add a variable to store points of the game	
	Section – D (Python)	
18.	Which of the following are valid variable names in Python? 1plus2, if, my_book, yes&no, helloworld	1
19.	What will be output of the following expressions?	2
	#Considering Python 2.7 >>> print ('Test' * 3)	
	>>> print ('7'+'8')	
	OR	
	#Considering Python 3.x >>> print ('Test' * 3)	
	>>> print ('7'+'8')	
20.	What will be output of the following code if the user enters Principal amount as	2
	20000 and Time as 10 years.	
	#Considering Python 2.7 P = input("Enter Principal amount:")	
	T = input("Enter Time:")	
	if T>10:	
	SI = P*T*10/100	
	else:	
	SI = P*T*15/100	
	print("Simple Interest = ",SI)	
	OR	
	#Considering Python 3.x P = input("Enter Principal amount:")	
	T = input("Enter Time:")	
	if T>10:	
	$SI = P^{T*10/100}$	
	else:	
	SI = P*T*15/100	
	print("Simple Interest = ",SI)	
21.	Write a code that displays the sum of first 10 natural numbers.	3
۲۱.	איווכ ב כטעב נוובו עוסףובאס נווב סעווו טו וווסג דע וובנעום וועוווטפוס.	3

Class – X Computer Application (165) Marking Scheme - SQP (2019-20)

Max. Marks: 30

Duration: 2 hrs.

General Instructions

- The paper contains 4 sections Section A, Section B, Section C and Section D
- Section A and B has to be attempted by all students.
- Students may attempt any one of the two Section C (Scratch) OR Section D (Python)

Q No.	<u>Section – A</u>	Marks
1	Expand SMTP.	1
	Answer: Simple Mail Transfer protocol	
	(1 mark for the correct answer)	
2	Consider the following HTML statement:	1
	<body alink="red" bgcolor="Blue" vlink="yellow"></body>	
	In the above statement, what do you mean by 'alink' and 'vlink'?	
	Answer: Alink stands for active link while vlink stands for visited link. When the cursor is positioned on the hyperlinked text, the coloured specified in alink attribute (red) is seen. When the link has been clicked once, the colour changes to the one specified in vlink attribute (yellow) (1 mark for the correct difference)	
3	Rashmi has to send an email to Raees. She also wants to send the same e-mail to Vandana but does not want Raees to know about it. Which option out of 'cc' or 'bcc' should Rashmi use to enter the email address of Vandana?	1
	Answer: bcc (blind carbon copy) (1 mark for the correct answer)	
4	Geetu is an artist. She posts her artwork on the internet. One day she comes to know that Shreyas has downloaded one of the paintings that she had posted without her permission. He had further printed that image on an invitation card. Has Shreyas done the right thing? Which right of Geetu has he infringed?	1
	Answer: No, Intellectual Property Rights (1 mark for the correct answer)	
	OR	
	Define plagiarism.	
	Answer: When we download someone else's work or ideas and pass them as our own, then this practice is known as plagiarism. (1 mark for the correct definition)	

5	Give one difference between 3G and 4G.	1
5	Answer:	I
	 The speed of 4G is about 10 times faster than 3G 	
	• We can stream audio and video content using 4G	
	(1 mark for any one correct point)	
6	Define the term Digital Divide.	1
	Answer: The gap between technical knowledge of the people who have	
	access to computers and internet and those who do not have that access.	
	(1 mark for correct definition)	
7	Ritwik wants to use a software but does not want to pay for it. Which type of software can he use?	1
	Software can he use?	
	Answer: Open Source Software	
	(1 mark for correct definition)	
	Conting D	
	<u>Section – B</u>	
8	Write any one application each of e-Governance and e-commerce.	2
	Answer:	
	 overnance o Filing of online application forms for Aadhar card, passport 	
	 Filing of IT returns online 	
	 Registering an online complaint for any grievance related to 	
	government	
	ommerce Able to do online transactions 	
	 No need to go to bank for updating the passbooks depositing 	
	the money	
	 Online shopping 	
	(1 mark each for giving one point for e-Governance and one point for e-	
	commerce)	
9	Kuhu has just learnt how to do online banking. Name any two precautions that she should take to prevent online fraud.	2
	Should take to prevent online fraud.	
	Answer:	
	 Do not share user id and password with anyone 	
	 Avoid doing transactions from cyber café and other public places 	
	(1 mark for each correct point)	
10	Name the following with respect to HTML:	2
	 Attribute for changing bullet type of list tag. Answer: type 	
	b. Element to create a hyperlink	
	Answer: <a>	
	(1 mark for each correct answer)	

11	Write HTML code to display the unordered list (with square bullets) of two cities "DELHI" and "MUMBAI". The web page should have a yellow background and the title of the page should be 'My Cities'	2
	Answer	
	<pre>Allswei</pre>	
	<head></head>	
	<title> My Cities</title>	
	<body bgcolor="yellow"></body>	
	<ul type="square">	
	DELHI 	
	 MUMBAI 	
	(1 mark for correct structure of the HTML code with correct title element and correct attribute of body element	
	(1 mark for correct part with correct value of type attribute)	
	OR	
	Write HTML code to display an ordered list (with uppercase roman numbers) listing any three subjects being taught in your school. The web page should have a red background and the title of the page should be 'My Subjects'	
	Answer	
	<hr/>	
	<head></head>	
	<title> My Subjects</title>	
	<body bgcolor="red"></body>	
	<ol type="l">	
	 Science	
	 Maths	
	 Computers 	
	(1 mark for correct structure of the HTML code with correct title element and	
	correct attribute of body element	
	(1 mark for correct part with correct value of type attribute)	
12	Form a CSS code within the <head></head> for the following specifications:	2
	Background colour : blue	
	For the paragraph,	
	font family is Dotum and colour of the text is red	
	Heading should be in black colour	
	Answer:	
	<head> <style></th><th></th></tr><tr><th></th><td></td><td></td></tr></tbody></table></style></head>	

-		
	body { background-color: blue;} p {color:red;	
	font-family:Dotum;	
	} h1{ color: black;}	
	 (1 mark for correct style for paragraph	
	¹ / ₂ mark each for correct style for h1 and body)	
13	Write the HTML code to do the following:	2
	a. To display a horizontal line of green colour.	
	Answer: <hr color="green"/>	
	 (1 mark for correct answer) b. To create a hyperlink on the word CLICK to an image named testimage.jpeg 	
	Answer: < a href="testimage.jpeg"> CLICK	
	(1 mark for correct answer)	
14	Write output of the following HTML code.	3
	<html> <head> <title> Table </title> </head></html>	
	<body></body>	
	<pre><</pre>	
	THREE	
	Rose Lily Pansy	
	colspan="2"> Dahlia	
	Answer:	
	Table	
	(file:///C:/Users/pc/	
	Most Visited @ Getting Sta	
	TWO THREE ONE Rose Lily	
	Pansy Dahlia	
	(1 mark for correct structure of table (number of rows and columns)	
	1 mark for correct table heading row ¹ / ₂ mark each for correct data rows in the table)	
	OR	
	Observe the following table and write the HTML code to generate it:	
	SERIALNO CLASS NUMBER OF STUDENTS ENGLISH HINDI REGIONAL	
	1 XA 35 10 6	
	2 XB 31 15 4	

	Answer:	
	<html> <head> <title> Table </title> </head></html>	
	<body></body>	
	SERIALNO <td ROWSPAN="2"> CLASS NUMBER OF STUDENTS</td 	
	ENGLISH HINDI	
	1 X A 35106888 <th></th>	
	2 X B 311544	
	(1 mark for correct HTML and table code structure 1 mark for correct table heading row ½ mark each for correct data rows in the table)	
	<u>Section – C (Scratch)</u>	
15	Differentiate between	2
	Answer:	
	The instructions enclosed in the forever block keep on executing till the time the project is running or the Stop button is not pressed. The instructions enclosed in the repeat () block execute for the given number of times.	
	time the project is running or the Stop button is not pressed. The instructions enclosed in the repeat () block execute for the given	
	time the project is running or the Stop button is not pressed. The instructions enclosed in the repeat () block execute for the given number of times. (2 mark for correct difference)	
	time the project is running or the Stop button is not pressed. The instructions enclosed in the repeat () block execute for the given number of times.	
	time the project is running or the Stop button is not pressed. The instructions enclosed in the repeat () block execute for the given number of times. (2 mark for correct difference)	
	time the project is running or the Stop button is not pressed. The instructions enclosed in the repeat () block execute for the given number of times. (2 mark for correct difference) Differentiate between for the given and blocks.	
	time the project is running or the Stop button is not pressed. The instructions enclosed in the repeat () block execute for the given number of times. (2 mark for correct difference) OR OR OR offerentiate between O O O O O O O O O O O O O O O O O O	

16	Study the scripts given below and answer the questions.	
(i)	What will be the final position of the cat (Scratch mascot) after running the following script?	1
	Image: When for clicked Image: Clicked <	
(ii)	What happens when the sprite does not touch the edge of the stage?	1
	winite in the second part (changes costume) and ½ mark for second part (displays caller box))	
(iii)	In question (ii) above, what happens when the sprite touches the edges.	2
	Answer:	
	Displays the caller box saying "Touched"	
	Turns on the left by 30 degrees	
	Increases its size by 20 points	
	Bounces back (1/ mark for each correct tack)	
	(1/2 mark for each correct task)	

17	Name the tab and category of blocks that should be selected to do the following:	2
	(i) Ask the user's name Answer:	
	Scripts tab/ Sensing category of blocks	
	 (½ mark for correct tab and ½ mark for category) (ii) Add a variable to store points of the game Answer: scripts tab / Data category of block 	
	($\frac{1}{2}$ mark for correct tab and $\frac{1}{2}$ mark for category)	
	<u>Section –D (Python)</u>	
18	Which of the following are valid variable names in Python?	1
	1plus2 , if, my_book, yes&no, helloworld Answer:	
	My_book and helloworld	
	(½ mark for each correct name)	
19	What will be output of the following expressions? #Considering Python 2.7 >>> print ('Test' * 3) >>> print ('7'+'8')	2
	OR	
	#Considering Python 3.x >>> print ('Test' * 3) >>> print ('7'+'8')	
	Answer:	
	i. >>> print ('Test' * 3) >>> TestTestTest (1 mark for correct answer)	
	ii. >>>print ('7'+'8') >>> 78	
	(1 mark for correct answer)	
20	What will be output of the following code if the user enters Principal amount as 20000 and Time as 10 years. #Considering Python 2.7 P = input("Enter Principal amount:")	2
	T = input("Enter Time:")	
	if T>10:	
	SI = P*T*10/100	
	else:	

	SI = P*T*15/100	
	print("Simple Interest = ",SI)	
	OR	
	#O an ai da sin n Dadh an O a	
	#Considering Python 3.x P = input("Enter Principal amount:")	
	T = input("Enter Time:")	
	if T>10:	
	$SI = P^{T*10/100}$	
	else:	
	$SI = P^{T*15/100}$	
	print("Simple Interest = ",SI)	
	Answer:	
	Simple Interest = 30000	
	(1 mark for correct calculation of simple interest	
	(1 mark for correct answer with message)	
21	Write a code that displays the sum of first 10 natural numbers.	3
	Answer:	
	x=1	
	sum=0	
	while(x<=10):	
	sum=sum+x	
	x=x+1	
	print (sum)	
	(1 mark for initialization of x and sum	
	(1 mark for while loop)	
	(1 mark for print statement)	