1/1 2/2

	Digital tools exam 2020-2021 Sections: PCC, FAS, AMER, AS, EMB, SCAN Rating scale: 51 points, normalized to 30 (19st / locture question, 2pts / computation) Duration: th Documents: forbiddee Calculator: forbiddee	TANK BYINGBERGE	elements can be automatically generated by the word pro- cesses?  Table of content  Virtual table of global structuration  Chapters numbering  Table of figures	it is represented with an alphabet composed of 16 symbols.  its binary representation is on 16 bits.  it necessarily represents a negative number.  this number is composed of 4 bits.
	Numéro étudiant :	Figure 1 Question 1 If I write a report on Libre-Office, which file	word that is too weak?  that attacks are done with my identity that I validate the Digital Tools module that my teacher scolds me	Question 16 At which step of its lifecycle the carbon footprint of a smartphone is the highest?  Playing 4K videos on 4G in an elevator Usage Horvesting of raw material Recycling Manufacturing
1/1		format rosst I send to my teacher?  pdfdocxodtods dotx  Question 2 Wanting to put the division 1/3 in a spread- sheet, I write exactly the following text; i = 100 Which rosult should be displayed in the cell?	esv. Ltt	Question 17 The RAM memory is volatile (it is crased when the computer is turned off). Which type of memory is necessary to ensure that data is preserved after the shutdown of the computer?  O/1  ROM  Dead memory  Assistorage  1/1
-0.3333/1		Question 3 What is the approximate world electricity consumption dedicated to digital technologies?	Number the figure  Add a legend on top of the figure  Cate the figure  Cate the figure  Comment the figure  Question 11 Let us consider the graph of Figure 1, recently published in French media. Which corrections would have been necessary to publish it in a scientific communica-	3 Computations  Only one correct answer per question. Scale: a current answer is worth 2, the lack of answer is worth 0 and an incorrect answer is worth -1.
-0.5/1	Instructions     Do not fold the copy!     Blacker the cells with a black pen; do not surround.	Question 4 Among the following statements, which ones are extract for a sproadsheet:  In the reference SASI, the column is fixed, but not the line  The reference A1 is a relative reference.  In the reference SAI, the column is fixed When copying/posting an absolute reference, it is up-	display the scale/graduation display the axes display the units display a linear interpolation display error bars	3.1 Base change and two's complement  Question 18 What is the hexadecimal representation of  -29 <sub>18</sub> (signed and on 8 bits) 1/1  E3 <sub>18</sub>
1/1	the cells!  To correct: whiten the cell, without rebuilding it.  The whitening of the cell must be very clean and should not leave any shadow.  The student number must be checked.  Do not restort the MCQ with a new subject, you would have to start from the begining as all the question may be different.	dated to adapt to its new location.  Question 5 What is composing an Arithmetic logic unit (ALU)?  Non of the other asswers RAM Logical gates Colls.  Question 6 Which of the following memory types has the	Question 13 What are the purposes of a virtual machine?	Question 19 What is the two's complement of 0001 1011 <sub>2</sub> (signed and on 8 bits)?  -0001 1011 <sub>2</sub>
	The subject is double-sided  Lecture questions  Rating scale: a correct response is worth 1, and the lack of answer is worth 0. Otherwise the score is the pro-rate	fostest access time?  RAM Hard drive disk Registers Coche	To run Solid Edge on MacOS To handle load distribution in data centers  Question 14 The firmware is a piece of code that is executed on:	240 <sub>10</sub>
	between the number of correct and incorrect answers. The score cannot go below -0,5.		the main processor the computing unit the control unit a peripheral device	-0.3333/1

+25/2/11+

	Question 21 What is the representation in base 16 of 756 <sub>10</sub> (unsigned and on 16 bits)?	Question 24 Assuming that is its the binary representa- tion of a signed integer, what is its representation in base 10?	Question 27 × 1001 0000	Question 31 × 0100 0100	
2/2	☐ 0009 0010 1111 0100 <sub>55</sub> ☐ The question is incorrect 02 F4 <sub>16</sub> ☐ 1 878 <sub>10</sub> ☐ None of these unwaves is correct.				0/2
	Question 22 What is the binary representation of $128_{16}$ (signed and on 8 bits)?	Question 25 Assuming that is is the binary representa- tion of an unsigned integer, what is its representation in base 10?	9001 1101	11:01 10:10	
21/22	☐ 1000 0001₂ ☐ 1000 0000₂  The question is incorrect ☐ 0000 1111₂  None of these senseers is correct.	102 <sub>33</sub>	Question 28 + 0111 1100	Question 32 / 0010 0000 7	2/2
	3.2 Multiple interpretations	4 Open questions			
	Given the following binary sequence on 8 bits : 1010 0010 Assurer the 3 following questions :	Scale: a correct answer is worth 2, the lack of answer is worth 0 and an incorrect answer is worth -0.5.	Question 29 × 0100 1011 7	Question 33 = 0001 0111 Y	
- 50	Question 23 Assuming that is is the binary representa- tion of a signed integer, what is its representation in bose 16?	4.1 Unsigned integers on 8 bits  0101 0111  Ouestion 26 + 1110 1101			-0.2/2
2/2 -0.5/2	A2 <sub>38</sub>		Question 30 1010 1000		
					0/2
	4.2 Floating point conversion	and the second s			
	Question 34 What as the single precision fleating point	escoding (IEEE 754) of 28.77 Revaluer : do not smite associated	itten on mis copy. One a araya paper instead.		
2/2					