MOUNT C Term End Exam: II	ARMEL INTERNAT Cambridge Int Subject	IONAL SCHOOL, A ternational : ICT Date	KOLA e: 02.04.2024			
Student's Name:	Ŭ	Roll No:	Grade: 8			
Marks: 60	Time Duration: 90	minutes Invi	gilator's Sign.			
	SECTION A (Binary Number System)					
Q.1. Convert the follo	wing.		(10)			
1. (10) _{10 =} ()2	6. (1101) ₂ = ()10			
2. (2F) _{16 =} ()10	7. (9AD) ₁₆ = ()2			
3. (101110011101) ₂ = () ₁₆	8. (76) ₈ = ()10			
4. (105) _{8 =} ()2	9. (25)10 = ()8			
5. (123)10 = ()16	10. (10101001);	$p_2 = ()^8$			

Q.2. Your teacher has assigned you a task to give a presentation on conversion of octal number into binary numbers and vice-versa. You are asked to create some aids to support your presentation. You have created two tables, Table 1 and Table 2, to demonstrate some examples. (4)

Octal Number	Binary Equivalent	Binary Number	Octal Equivalent
1	001	100	
5		111	7
3	010	011	2
6	110	001110	16
Table	1	Tal	ole 2

In the above tables, some entries have either been missed or incorrect. Answer the following questions based on the above case:

- 1. What will be filled in the blank space of table 1?
- 2. Find and rectify the incorrect binary equivalent in Table 1.
- 3. Fill the appropriate octal equivalent in the blank space of table 2.
- 4. Find and rectify the incorrect octal equivalent in table 2.

Q.3. What is number system? Write the types of number system. (2)

Q.4. Fill in the blanks.	(2)
1. The binary system consists of two digits and	
2. The decimal number system uses the digit fromto	
3. The base in thenumber system is written as 10.	
4. The base of the hexadecimal number system is represented by	
Q.5. What is Binary number system? Write the binary numbers from 0 to	3. (2)
SECTION B	
Q.6. Complete the sentence with proper word.	(4)
1. "if" statement must end with a	
2is used to exit Python shell.	
3. Thestatement enables a program to skip	over a part
of the code.	
4. Condition is checked for true or false, the statements are execute	d only if the
condition is	

Q.7. Write a program.

1. Using for loop with string in Python.

2. To print first 10 natural numbers in reverse order.

3. To print addition of two numbers.

4. To check eligibility of a person to vote or note.

2.8. What are relational operators? Give examples.			(3)	
		SECTION C		
		(Artificial Intellig	ence)	
2.9. Renur	mber the following sto	eps used for prot	olem solving in Al.	(4
a. Iden	tification of solutions			
p. impl	ementing			
c. Defi	ning a problem			
u. Anal				
e. Choo	using a solution			
•	2	3	4	5
	a different application	areas of Al		(2
2.10. State	e different applicatior	n areas of AI.		(2
Q.10. State	e different applicatior	n areas of Al.		(2
Q.10. State	e different applicatior	n areas of Al.		(2
Q.10. State	e different applicatior	n areas of AI.		(2
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.12.	2. What are the tools used in AI?		
	Section D		
	(Virus and Troubleshooting)		
.13.	Answer the following questions.	(8)	
1.	Define a computer Virus. How is it different from biological virus?		
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2.	List out the various types of computers viruses.		
3.	What are the areas to troubleshoot?		

.14. Identify the	e troubleshoot areas.		(4)
1. Power failu	re in the computer.		
2. Windows st	cops responding.		
3. You are una	able to install a program.		
4. Windows re	estarts without warning.		
.15. Give one w	ord for the following.		(2)
1. It may corr	upt or delete data on a comput	er	
2. It is used to	o protect computer from viruse	S	
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