Name:			Student ID:		
Section	on 1. Fill in the bla	nks [1 mark each]			
	CPU RAM	C. RC D. Pe	OM eripheral		System software Application software
2 3 4 5 6 7 8	Turns on and of lt frees RAM so Stores the BIO Touchscreen Loads the drive Limits the accessory	e is part of this type of off internal computer cincontact it can be used by S. ers when you connect as of files in secondar inputer instructions into tion and program data	ircuits. y other program a USB micropho y memory. hardware action	one. ns.	
Section	on 2: Answer the f	ollowing questions.			
1. Exp [3 mar		n is encoded inside a	computer, and h	now this allows it to	represent information.
2. Calculate the minimum number of bits required to encode an alphabet of 800 different icons. Show all the steps used to arrive at your answer. [3 marks]					
3. List three functions of an operating system. [3 marks]					
Section 3. Complete the following conversions [3 marks each]					
-	om binary to decim 001111_2	al			

B) From decimal to hexadecimal

• 265₁₀

Section 4. Read the following case and answer the questions.

Barbara Smith is a web designer who works as a web developer. She is starting a new project next month, so she is planning to buy a new computer:



- Operating System Windows 10 of 64-bits
- Full HD 1920x1080 IPS screen of 17.3 inches with low power consumption
- Intel i7-8750H @ 2.20 GHz processor
- 9 MB of cache
- 2 MB of ROM
- 8GB of RAM for advanced multitasking
- 1 hard drive with 1TB storage capacity
- Graphics card NVIDIA GeForce 3060
- 1 USB C port
- 1 USB 3.0 port
- HDMI port
- Bluetooth 5.0
- High-definition webcam
- Headphone jack
- a) Identify the operating system that this computer has [1 mark]
- b) Indicate the amount of secondary memory [1 mark]
- c) Indicate the amount of main memory [1 mark]
- d) Indicate the processor manufacturer [1 mark]
- e) Indicate three peripheral devices in this computer [2 marks]