<u>Data processing and information – 2022 IT AS 9626</u>

A customer at a supermarket checkout pays for their goods by inserting a card into a chip reader and entering their personal identification number (PIN). Electronic funds transfer takes place.
Describe what happens during the electronic funds transfer.
-20
Tel.
[6]

encryption is used.
Explain what is meant by asymmetric encryption.
(a)
[5]

Encryption is a method used by organisations to keep data confidential. Symmetric or asymmetric

2. Nov/2022/Paper_11/No.5

Nov/2022/Paper_11/No.11
Explain what is meant by an indirect data source. In your explanation include descriptions of two different indirect data sources.
[41]
Palpa Califilo

3.

4.	Nov/2022/Paper_12/No.1
	Here is a set of data.
	>
	<
	=
	>=
	<=
	Explain why this is just a set of data and describe how this particular set of data would become information.
	_0
	[4
	Pale

(a)	Discuss the need for encryption.	
		[4
(b)	Discuss the advantages and disadvantages of using symmetric encryption.	
(b)	Discuss the advantages and disadvantages of using symmetric encryption.	
(b)	Discuss the advantages and disadvantages of using symmetric encryption.	
(b)	Discuss the advantages and disadvantages of using symmetric encryption.	
(b)	Discuss the advantages and disadvantages of using symmetric encryption.	
(b)	Discuss the advantages and disadvantages of using symmetric encryption.	
(b)	Discuss the advantages and disadvantages of using symmetric encryption.	
(b)	Discuss the advantages and disadvantages of using symmetric encryption.	
(b)	Discuss the advantages and disadvantages of using symmetric encryption.	
(b)	Discuss the advantages and disadvantages of using symmetric encryption.	
(b)		

5. Nov/2022/Paper_12/No.8

Encryption is often used to protect data.

Before companies make planning decisions, they need to collect a lot of data. The decisions make will depend on the quality of the resulting information.	sions they
Apart from its age and its level of detail, describe the other factors which affect the information.	quality of
	[6]

6. Nov/2022/Paper_13/No.1

[4]
[4]

When personal data is sent across the internet, it is often encrypted.
Analyse the encryption of personal data when it is sent across the internet.
.00
[8]

Ruritania has just passed a law which will allow supermarkets to purchase customer information from banks, providing they anonymise it. Joanne, the owner of a supermarket, wishes to analyse the spending habits of people in the area very near to the supermarket. She can either use direct data sources or obtain the information indirectly from local banks.
Discuss the advantages and disadvantages to Joanne of obtaining the information indirectly from local banks.
[8]

A gesture based interface is a type of user interface.
Describe the advantages of using a gesture based interface rather than other types of interface.
IE.
Palpa

Some students have been asked by their teacher to carry out a study. They will collect data about the families living in five streets close to their school. They will carry out the study using direct data sources and will not use records from the 2020 census which are kept at the city hall.
Describe the suitability of using direct data sources rather than the census data for the study.
[5]
Pago.

Julia is setting up a hairdressing business. She has recruited several staff. She is creating a database of all her staff and has written down all their details ready for entering into a computer. She will need to verify the data when it is entered.

She has been told that she cannot use a parity check but should use visual verification and double data entry.

(a)	By describing what is meant by a parity check, explain why it might not be suitable in this scenario.
	[4]
(b)	Compare the similarities and differences between the visual checking and double data entry methods of verification.
	200
	•••
	[4]

The performance of mainframe computers and supercomputers is often measured using performance metrics.
Compare, by describing the similarities and differences between them, the different types of performance metrics.
[6]

Julia is setting up a hairdressing business. She has recruited several staff. She is creating a database of all her staff and has written down all their details ready for entering into a computer. She will need to verify the data when it is entered.

She has been told that she cannot use a parity check but should use visual verification and double data entry.

(a)	By describing what is meant by a parity check, explain why it might not be suitable in this scenario.
a. v	
(b)	Compare the similarities and differences between the visual checking and double data entry methods of verification.
	[4]

(b)	Updating a master file in a payroll system is an example of batch processing.						
	Discuss the advantages and disadvantages of using batch processing, compared to other types of processing, for a payroll system.						
	100						
	[8]						

	lo is carrying out a study on the level of noise caused by traffic in the streets around his home. will need data for his study.
(a)	Describe what is meant by direct data.
	[1]
(b)	Describe how Paulo could use direct data sources for his study.
	[4]
	•••

J	une/2022/Paper_15/No.5
	A doctor drives to work. While at work and while travelling, the doctor uses a number of IT-based devices. She uses a dialogue interface to control these devices.
	Discuss the advantages and disadvantages of the doctor using a dialogue interface rather than a graphical user interface (GUI).
	**

.....

.....

......[8]

A co	ollection of dat	a could be i		9.			
	1989,	Paolo,	√,	₹,	≠,	OR	
(a)	Explain, by de	efining the t	erm 'dat	ta', wh	y this i	s just a collection of da	ata and is not information
				• • • • • • • • • • • • • • • • • • • •	•••••		
				• • • • • • • • • • • • • • • • • • • •	••••••		
						• 6	<u>~</u>
						40)
			•••••	• • • • • • • • • • • • • • • • • • • •			
							14
(b)		of these ite			- 1		item might represent and
(b)	Select three	of these ite be used.	ms of da		plain v	vhat information each	
(b)	Select three how it could b	of these ite be used.	ms of da		plain v	vhat information each	item might represent and
(b)	Select three how it could b	of these ite be used.	ms of da		plain v	vhat information each	item might represent and
(b)	Select three how it could be	of these ite be used.	ms of da		plain v	vhat information each	item might represent and
(b)	Select three how it could be	of these ite be used.	ms of da		plain v	vhat information each	item might represent and
(b)	Select three how it could be	of these ite	ms of da		plain v	vhat information each	item might represent and

18. March/2022/Paper_12/No.1

[3]

ban	ks.
(a)	Describe the features of a transaction processing system.
	[3]
	Palpa Calrilo III

Mainframe computers are particularly suited to carrying out the transaction processing of online

19. March/2022/Paper_12/No.3(a, b)

(b)	Discuss the advantages and disadvantages of the use of mainframe computers.
	. 29
	No.
	[8]
	Įo,

20. March/2022/Paper_12/No.4