## <u>Hardware and software – 2022 IT AS 9626</u>

1.

Nov/2022/Paper_11/No.1  Computers often have utility software supplied with the operating system.
Explain what is meant by utility software and why it is needed.
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Palpa Call

Maria has been asked to write a word-processed report for her homework. She needs to choose between using proprietary software and open source software.
Describe the differences between these two types of software.
A.V
[6]
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2. Nov/2022/Paper\_11/No.8

3.	Nov/2022/Paper_12/No.2  Describe what is meant by the term RAS (Reliability, Accessibility and Serviceability) when applied to mainframe computers.
	[5]
4	Nov/2022/Papar 42/No 6
4.	Nov/2022/Paper_12/No.6  Explain why supercomputers are used for weather forecasting.
	[4]

A microprocessor controlled air conditioning system uses real-time processing.	
Explain what is meant by real-time processing in this scenario.	
[5]	
Palpa Palpa	

**5.** Nov/2022/Paper\_13/No.2

Back-up software and anti-virus software are both types of utilities that are often provided with operating systems.	
(a)	Without detailing the different methods of detection, describe the features of anti-virus software.
(b)	Without referring to the different types of back-up, describe the features of back-up software.
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	[3]

**6.** Nov/2022/Paper\_13/No.3

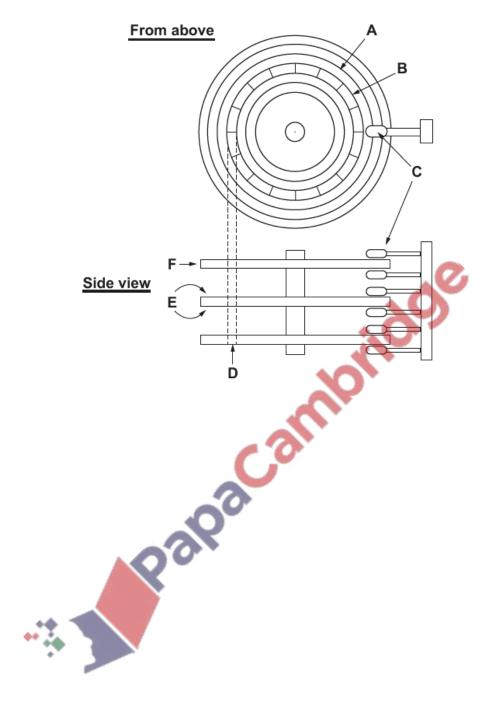
system. She will make a choice between using off-the-shelf software and custom written software. She is already aware that there are differences in the level of support offered and the amount of testing that will have been carried out on the software.
Discuss the other advantages and disadvantages of choosing off-the-shelf software compared to choosing custom written software.
[8]

The IT department manager in a company has decided new software is needed to run the payroll

**7.** Nov/2022/Paper\_13/No.6

## **8.** June/2022/Paper\_11/No.5

Here is a diagram showing the component parts of a hard disk drive.



Describe the component parts of a hard disk drive. Refer to the labelled diagram in your answer.
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[6]
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(a)

When a high level language program is written, it has to be translated so the computer can run it. This can be achieved using a compiler or an interpreter.	
Discuss the advantages and disadvantages of using a compiler rather than an interpreter.	
[8]	

**9.** June/2022/Paper\_12/No.5

E	ne/2022/Paper_12/No.5  Explain how high level language programs can be translated to run on different computer systems not
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	Palpa Califilio

## 11. June/2022/Paper\_12/No.4 The directors of a company wish to create a database of customers. They are not sure whether they should ask a computer programmer to produce custom written software or they should purchase off-the-shelf software. (a) Describe the features of custom written software. (b) Describe the features of off-the-shelf software.

An interpreter is a type of system software.
Describe how an interpreter operates.
Palpa Califi

**12.** March/2022/Paper\_12/No.2

13. Marcl	n/2022/Paper_12/No.(3b)
	Discuss the advantages and disadvantages of the use of mainframe computers.
	[8]