(c) Study the VB.Net programming code for btnCheck and answer the question below.

Private Sub htnCheck Click(ByVal sender As System Object, ByVal e As System EventArgs) Handles htnCheck Click

Dim Total As Integer
Dim English As Integer
Total = Integer Parse(txtTotal Text)
English = Integer Parse(txtEnglish Text)

If Total >= 300 And English > =60 Then
IblDisplay Text = "Congratulations! Scholarship Granted"

IbiDisplay Text = "Congrammations: Scholarship Gramed

Else

IbiDisplay Text = "Sorry you do not qualify for scholarship"

End If End Sub

What will be the output of the program if Total is 300 and English is 65? (2 marks)

(d) Explain **one** purpose of a switch in a network setup. (2 marks)

(f) Transmission Control Protocol/ Internet Protocol (TCP/IP) is a two layer protocol used in data transmission.

Name two processes involved in TCP/IP.

(2 mark)

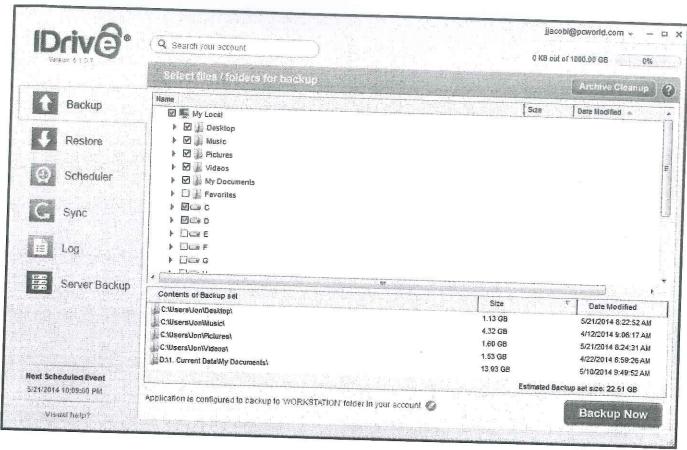
QUESTION 6 MANAGING AND MAINTAINING DATA (10 marks) ENIVIRONMENTAL ISSUES, CLIMATE CHANGE AND SAFE PRACTICES

- (a) What does the word "big data" in cloud computing refer to? (1 mark)
- (b) The three most common cloud computing service models are Iaas, Paas and SaaS.
 - (i) Which model provides access to application software's often referred to as **on-demand** software's. (1 mark)
 - (ii) State what does the IaaS service model provides to its users. (1 mark)

(iii) State one benefit of using cloud storage service.

(1 mark)

(c) Use the snapshot given below to answer the questions that follow.



Source: Google Image Search

(i) Name the cloud storage service used in the diagram? (1 mark)

(ii) The cloud storage service in the diagram offers continuous syncing of your files. What is syncing? (1 mark)

(d) Dedicated hosting is a service model of data centre.

Define dedicated hosting data centre.

(1 mark)

(e) Disrupting ecology is one of the harmful effects of technology on our environment.
 Explain the term disrupting ecology? (2 marks)

(f) State **one** way in which computer networks has helped tackle the problem of climate change. (1 mark)

Turn Over

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[20 marks] **ESSAY QUESTIONS** SECTION C There are four questions in the section. Answer any two questions. Write an essay of about 180-200 words to answer each question. Please note that the allocation of marks for the content has been included for each question and 1 mark is allocated to the structure of the essay. Each question is worth 10 marks. (10 marks) COMPUTERS IN SOCIETY **QUESTION 1** A computer crime is an action in which the person responsible uses special knowledge of computer technology for illegal purposes. With reference to the above statement, discuss (4 marks) • four computer crimes (3 marks) how encryption can help in computer security (2 marks) • importance of frequently changing password (10 marks) COMMUNICATION AND NETWORKS **QUESTION 2** A network topology describes how network is configured and arranged. With reference to the above statement, discuss (4 marks) • four network topologies (2 marks) • use diagrams to support the discussion (2 marks) • one advantage of any two network topologies (1 mark) one disadvantage of any network topology

SECTION C

(continued)

QUESTION 3

COMMUNICATION AND NETWORKS

(10 marks)

A network strategy describes how resources and information is coordinated and shared.

With reference to the above statement, discuss the following:

• Four common network strategies

(4 marks)

Use diagrams to support your discussion

(2 marks)

One advantage of any two network strategies

(2 marks)

• One disadvantage of any four network strategies

(1 mark)

QUESTION 4

MANAGING AND MAINTAINING DATA

(10 marks)

Cloud computing adaptation is continuing apace, across a host of industry sectors, as more organisations recognise the benefits it can potentially offer.

With reference to the above statement, discuss Public, Private and Hybrid cloud services using the following guidelines:

definition

(3 marks)

one advantage

(3 marks)

• one disadvantage

(3 marks)

THE END

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