Candidate Marks Report

Series : 6 2018

This candidate's script has been assessed using On-Screen Marking. The marks are therefore not shown on the script itself, but are summarised in the table below.

Centre No :	Assessment Code : R012
Candidate No :	Component Code : 01
Candidate Name :	

Total Marks :

In the table below 'Total Mark' records the mark scored by this candidate.
'Max Mark' records the Maximum Mark available for the question.

Paper:	R012/01
Paper Total:	
	/ Max

Answer **all** the questions.

1 You are working on a project and need to set milestones.

In which phase of the project life cycle would this task be carried out?

.......~~Incrementation~~.... Initiation phase .... [1]

2 **Fig. 1** below shows part of a Gantt chart.

A	Start date	Duration	1	2	3	4	5	6	7
Produce the deliverable product	12-Apr	3							
Carry out testing	14-Apr	4							

Fig. 1

What does **Column A** represent?

.... tasks .... [1]

3 Identify **one** software type that could be used to create a visualisation diagram.

.... desktop publishing (DTP) .... [1]

4 A food manufacturer is using a consumer panel to collect feedback on its new range of healthy snacks.

Give **two** advantages of using a consumer panel to collect this feedback.

1 .... you can recieve a wide range of feedback ....
....

2 .... also it is coming from the customer so ....
... it could more reliable. ....

[2]

5 Pharming is **one** type of threat that exists when collecting data online.

What is meant by the term pharming?

(farming) It is other ....

....

....

.... [2]

6 You are releasing a deliverable product to a client.

During which phase of the project life cycle does this task take place?

....Exicution phase.. [1]

7 A retailer shares information about new products with its store managers using Voice over Internet Protocol (VoIP).

Describe **one** advantage **to the retailer** of using VoIP to share this information.

......On advantage of using VoIP is that its
quick and easy to set up and give the information
and this could help becase it is more time
effcent.. [2]

A project team has been set up to organise the installation of a cashless payment system in the school canteen over the summer holiday. The new payment system must be ready for the first day of term. The school has a total budget of £20 000 to set up the new system.

There will be two checkouts, each with a barcode scanner. A fingerprint reader will be used to identify each student at the checkouts. When a student wants to buy a meal, they will take the items to the checkout, sign in with their fingerprint and scan the food item barcodes.

The total cost will be calculated and displayed on a touch screen. The student will then confirm the purchase by touching the OK button. The student can also cancel their purchase if the meal costs too much. The system will generate a total bill at the end of each week. This is sent to each student's home by email.

8 (a) Identify **one** input into the initiation phase for this project.

....Cilient requeriment.. [1]

(b) Identify **one** output from the planning phase for this project.

....Pert chart.. [1]

9 The project manager considers legislative implications during the initiation and planning phases.

Describe **one** legal implication that must be considered for this project.

......the annal gear a legal implication could
be the data protection act wicth is to
prodect any personal data from being stolen, stealed
or sold.. [2]

Turn over

10 The team will follow the project life cycle to complete this project.

Discuss the advantages **to the school** of the project being completed using the project life cycle.

the school has many advantages when using a project life clycle. this could help because they will know how long they will have to complet the task #¹ also they would know what tasks need to be done before another can start #²

Also they could change anything if something was to go wrong and this could help because it makes sure that they do what needs to be done

#¹ this can help the school because they will know how it could manage time better

this is import because it will help them keep on track so they can do it before the time frame

[8]

11 **(a)** Identify **two** constraints for this project.

1 .....has to be done by the time...

2 ......the budget is limited amount...

[2]

(b) For **one** of the constraints you chose in **part (a)**, describe **one** step that could be taken to mitigate this.

Chosen constraint .....the budget...

Description .....thy could get a loan and this could..............

.....help because they wont have a set amount...................

....

....[2]

Turn over

An athletics club, Progress Harriers, organises a monthly competition. The competition includes a variety of sporting events.

The results of the competition are posted on the club website and sent to all competitors as an email attachment.

Progress Harriers uses a database to store and process data such as event results, club event records and the contact details of each competitor. The database is stored on a laptop. The database is protected by a password.

At the start of each monthly competition, the laptop is used by club officials to record the names of the competitors in a database table.

During each competition, a desk is set up at the side of the events field where the competition is being held. The results of each sporting event are brought by club officials to the desk. This data on the position and time for each competitor is input into the database using the laptop.

12 Progress Harriers is concerned about the use of social engineering by cyber-criminals.

   (a) What type of social engineering could take place during a competition?

   .... [1]

   (b) Explain **one** way Progress Harriers could mitigate against the threats from social engineering.

   One way that the club could mitigate agest cyber attack is to have an updated fire wall so it makes it harder for the attackers to get though

   ....

   .... [3]

13 (a) Identify one physical prevention measure and two logical prevention measures that Progress Harriers can take to protect its data.

you can touch

you can touch

Physical ....Ken tren of the computr when not in use....

Logical 1 ....have a more secure password....

Logical 2 ....update the systen that they are using....

[3]

(b) For one of the logical prevention measures you chose in part (a), describe how it would protect the data.

Chosen logical prevention measure ....update the systen that they are using....

Description ....this could help because if the systm is out of date the systm is more vourbl than the updated version....

[2]

Turn over

14 Progress Harriers uses a database to process data about the competition results.

(a) Describe **one** feature of a database that could help Progress Harriers enter data into its database.

a feature of the database that could
help the club is that it is more it is more
easy to lay out than a spreed sheet and less
difficult then Speedsheet [2]

(b) Describe **one** feature of a database that could help Progress Harriers generate useful information from its database.

the database could use formulas making
the process faster than doing it yourself

[2]

(c) Explain **two** reasons why Progress Harriers would use a database rather than a spreadsheet to record event results, club event records and the contact details of each competitor.

1   It is faster to set up mainly using
a data base more less time consuming also
It is easy to set up

2

[6]

15 When a club record is broken at a competition, a 'Club Record Certificate' is produced. The competitor name, event name and date from the database are merged into a Desk Top Publishing (DTP) certificate template.

(a) What presentation method is this?

mail text base [1]

(b) Explain **two** advantages for Progress Harriers of using this method to create certificates.

1 It is faster to input the data into the template this will help because it is more time efficent

2 It is allready made so this means that they dont have to create it over and over making the process faster

[4]

A large, international charity collects data relating to its 500 000 donors (those who give money to charity). The data includes donor names, contact details and if the donor pays on a monthly basis.

The charity promotes the use of Green energy including the use of energy efficient home appliances such as TVs and lighting. Donors are encouraged to install solar panels on the roofs of their homes.

The charity collects data on the public's opinion of the charity using the following:
- surveys through the charity website;
- sending questionnaires by email and/or through the post;
- social media;
- external sources such as market research conducted on the street by other companies.

Market research is carried out on a weekly basis using surveys and questionnaires. The data from this market research is shared with other fundraisers.

The data from the surveys and questionnaires is processed at the charity's head office and then stored on local servers. The charity uses the website to advertise the charity work it carries out and to sell branded clothing and gifts.

The charity has asked an IT security company to review the IT systems it has in place to identify the impact and consequences of potential cyber-security attacks.

16 The market researchers show presentations of the charity's work to the people they talk to on the street. Potential donors are then asked to fill in an online questionnaire.

(a) (i) Identify a suitable hardware device that could be used to complete the online questionnaire.

tablet or mobible device [1]

The data from each completed questionnaire is automatically sent to the charity's head office.

(ii) Identify a suitable connectivity requirement for the hardware device you chose in part (a)(i).

Wifi router [1]

(b) Explain one implication to the charity of having bias in the questionnaire.

that they are not giving a reliable data wich could mean that they have in correct informatio as this could lied to the carity of having poor coan choses [3]

17 The charity has a database containing the details of its donors.

(a) Identify **two** data types that could be used to store this information.

1 .... Alphanumeric ....

2 .... Date ....

[2]

(b) For **one** of the data types you chose in **part (a)**, justify your choice.

Chosen data type .... Date ....

Justification .... this is becaue they may need to add ....

.... ave date of birth and you cant ~~tototl~~ do ....

.... that on text data type ....

.... [2]

Turn over

18 The charity collects data about its 500 000 donors.

Discuss the different ways in which the charity could use this data.

the charity could use this data to get a better understanding of its donors making the company a more around cohert the donors what

the charity could use the data to make the charity better based of the results of what the 500,000 donors working and this would help because more people might want to gana (join and then that could lead to more people

the charity cald use the data to .

....

....

....

....

.... **[10]**

19 State **two** types of environmental vulnerabilities that could affect the stored data.

1 ...... One could be a big storm that cold erase the data ....

2 ....

[2]

20. Explain the **financial** disruption that may occur to the charity after a cyber-security attack.

.... If the attachers got any personal data

.... and thn if that person found aut they could

.... get sued and lose atot of money ....

....

....

.... **[3]**

Turn over

21 The charity collects data on the use of solar panels by its donors with their permission. A Green energy supplier has asked the charity to share this data with them.

Explain **two** reasons why the charity should say 'No' to this request.

1 the donors have gave permission to the company and not to the supplier and if they do give the information out they could get sued becase they didn't ask for permission

2 ....

[6]

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