



**HALE
SCHOOL**

ATAR Unit 1 examination, 2021

Semester 1

Write your name below:

Ruben Panzeh

**APPLIED
INFORMATION
TECHNOLOGY**

TIME ALLOWED FOR THIS PAPER

Reading time before commencing: Ten minutes

Working time for paper: 2.5 hours

MATERIAL REQUIRED/RECOMMENDED FOR THIS PAPER

TO BE PROVIDED BY THE SUPERVISOR

This Question/Answer booklet.

Separate Multiple Choice Answer sheet for Part 1.

A4 Colour Stimulus Sheet for Part 4

TO BE PROVIDED BY THE CANDIDATE

Standard Items: Pens, lead pencils, eraser, ruler, coloured pencils, coloured pens

IMPORTANT NOTE TO CANDIDATES

No other items may be taken into the examination room.

It is your responsibility to ensure that you do not have any unauthorised notes or other items of a non-personal nature in the examination room. Please check carefully, and if you have any unauthorised material with you, hand it to the supervisor **BEFORE** reading any further.

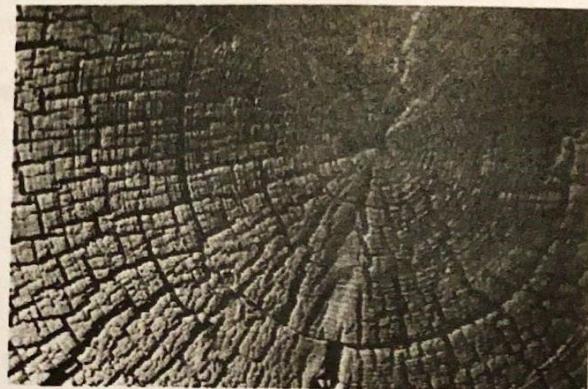
Section One: Multi-Choice Answer**15% (15 Marks)**

This section has 20 questions. Answer all questions on the separate Multiple-choice Answer Sheet provided. For each question, shade the box to indicate your answer. Use only a blue or black pen to shade the boxes. If you make a mistake, place a cross through that square, then shade your new answer. Do not erase or use correction fluid/tape. Marks will not be deducted for incorrect answers. No marks will be given if more than one answer is completed for any question.

Suggested working time: 20 minutes.

1. Which Element of Design is best represented by image below.

- (a) Balance
- (b) Movement
- (c) Texture
- (d) Proximity



2. Volatile memory is also known as?

- (a) RAM
- (b) ROM
- (c) HDD
- (d) CPU

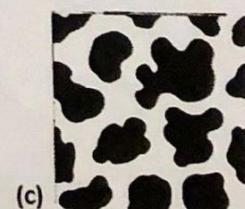
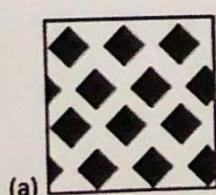
3. A 3D printer is

- (a) an output device.
- (b) an input and output device.
- (c) a system device.
- (d) an input device.

4. Instagram and Twitter are examples of

- (a) social networking
- (b) online collaboration
- (c) Social Media
- (d) video conferencing

5. Which of the following is an element of design?
- (a) space
 - (b) dominance
 - (c) rule of thirds
 - (d) typeface
6. Which file format would be the most suitable for a high-quality photograph that will be displayed on a website?
- (a) .raw
 - (b) .pdf
 - (c) .png
 - (d) .gif
7. A _____ is a document that provides guidelines for the way your brand should be presented from both a graphic and language perspective.
- (a) Situation Analysis
 - (b) Design Criteria
 - (c) Design Summary
 - (d) Style Guide
8. What project management tool is used to establish and monitor scheduling of stages for a project?
- (a) Flow Chart
 - (b) Gantt Chart
 - (c) Pie Chart
 - (d) Schedule of Process
9. A(n) _____ is a row or column of values, or a combination of rows and columns of values in an excel spreadsheet.
- (a) Range
 - (b) Cell
 - (c) Array
 - (d) Concatenate
10. Which diagram below best represents the design principle pattern?



11. Which one of the following statements about the use of High Key on a background is correct?

- (a) High Key colours make the foreground image recede into the background.
- (b) High Key colours provide shadow effect to the image.
- (c) High Key colours make foreground elements 'pop' out of the image.
- (d) High Key backgrounds are great for moody image compositions.

12. Moral Rights provide who with protection over a creative work?

- (a) The person who buys a piece of art.
- (b) The artist who paints a piece of art.
- (c) The Government who legislates copyright laws over a piece of art.
- (d) The art gallery who displays a piece of art.

13. An Operating System does which of the following?

- (a) manages system resources.
- (b) manages security and access rights.
- (c) runs applications.
- (d) all of the above.

14. JPEGs, GIFs and PNGs are common _____ image types.

- (a) Line
- (b) Raster
- (c) Vector
- (d) Pixel

15. What part of the Amendment of 2006 allows for recording of a TV show and playing back at a later time?

- (a) Format Shifting
- (b) Time Shifting
- (c) Fair Use
- (d) Duration

End of Section 1

GENERAL PURPOSE ANSWER SHEET

GPAS - 240R

USER INSTRUCTIONS

- Use a blue/black pen or 2B pencil
- Do not use red or felt tip pen
- Erase mistakes fully using an eraser / correction tape
- Make no stray marks
- Do not fold or bend
- For each question; T = True, F = False.
If that does not pertain, use A through E.

**PLEASE
MARK LIKE THIS ONLY:**



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Section Two: Short Answer**25% (46 Marks)**

This section contains **eight (8)** questions. Answer all questions. Write your answers in the spaces provided.

Spare pages are included at the end of this booklet. They can be used for planning your responses and/or as additional space if required to continue an answer.

- Planning: if you use the spare pages for planning, indicate this clearly at the top of the page.
- Continuing an answer: if you need to use the space to continue an answer, indicate in the original answer space where the answer is continued, i.e. give the page number. Fill in the number of the question that you are continuing to answer at the top of the page.

Suggested working time: 40 minutes.

Use the following system and its specs to answer the following questions

You run a small business and have been given the parts list for a desktop computer suitable for use in your organisation.

- Intel Core i7 11700K 3.6GHz
- 16GB GeIL Memory
- MSI Z590 Motherboard
- Samsung 250GB SSD OS Drive
- Seagate 1TB Storage Drive
- MSI GTX 1660 6GB Graphics
- ASUS PCE-AX3000 802.11ax Dual-Band Wireless-AX3000 PCIe Adapter with Bluetooth
- Jonsbo Case
- eVGA 600W Power Supply
- Microsoft Windows 10 Professional OEM 64-Bit DVD
- Microsoft Office 365
- Trend Micro Internet Security 1 Year License (OEM)
- 24 Month Return to Base Warranty

Question 16

- (a) Discuss the role of Microsoft Windows 10?

(2 marks)

To provide a simple, easy and intuitive front end for the user to run programs and performances on the computer separating the end user from the terminal

- (b) Explain the function of the primary storage in a computer system.

(2 marks)

To load ~~to free resources~~ the information that is being used by the hardware onto a faster storage medium rather than secondary storage, this information is cleared when the computer is not using it or shut down

Question 17

- (a) What application software is included in this computer package?

(2 marks)

Trend micro internet internet security
as it just runs to assist computer use

- (b) Name one piece of Application software that would be on this system?

(1 mark)

Intel driver assistant (App)

Question 18

- (a) What type of network connectivity is possible with this system?

(1 mark)

Wireless (Wifi) and ethernet on the motherboard
(Corded)

- (b) In the spaces below, list
- four (4)**
- peripherals that could be connected to this system that would be suitable for a small business office, not including the keyboard and mouse

(4 marks)

(i) monitor(ii) headphones(iii) microphone(iv) Speakers**Question 19**

What would be **two (2)** benefits to a small business of introducing mobile computers within their technology infrastructure.

(2 marks each)

i) Portability - the added portability of the computer would allow work from places other than the office.

or

ii) Consistency - when buying a mobile computer from a manufacturer they are usually mass produced meaning less part points without issues such as part compatibility also there would be others experiencing the same issues

Question 20

- (a) What the full name of the legislation that covers protection of creative works in Australia?
(2 marks)

The copyright act of (1964)

- (b) What does Format Shifting within Fair Dealing refer to?
(2 marks)

Someone watching something like on
tv and recording it with the intent
of watching it privately

- (c) Under Fair Dealing discuss two (2) exemptions that exist
(4 marks)

i) Schools- Schools are allowed to use
private domain materials in projects as long
as they don't get published outside of school

ii) Parody- ideas, characters and other
creative ideas are allowed to be retold/
remastered as long as they use different names
and it is deemed that enough effort has
been put in place to justify it as your
own work

Question 21

Complete the following table:

(12 marks)

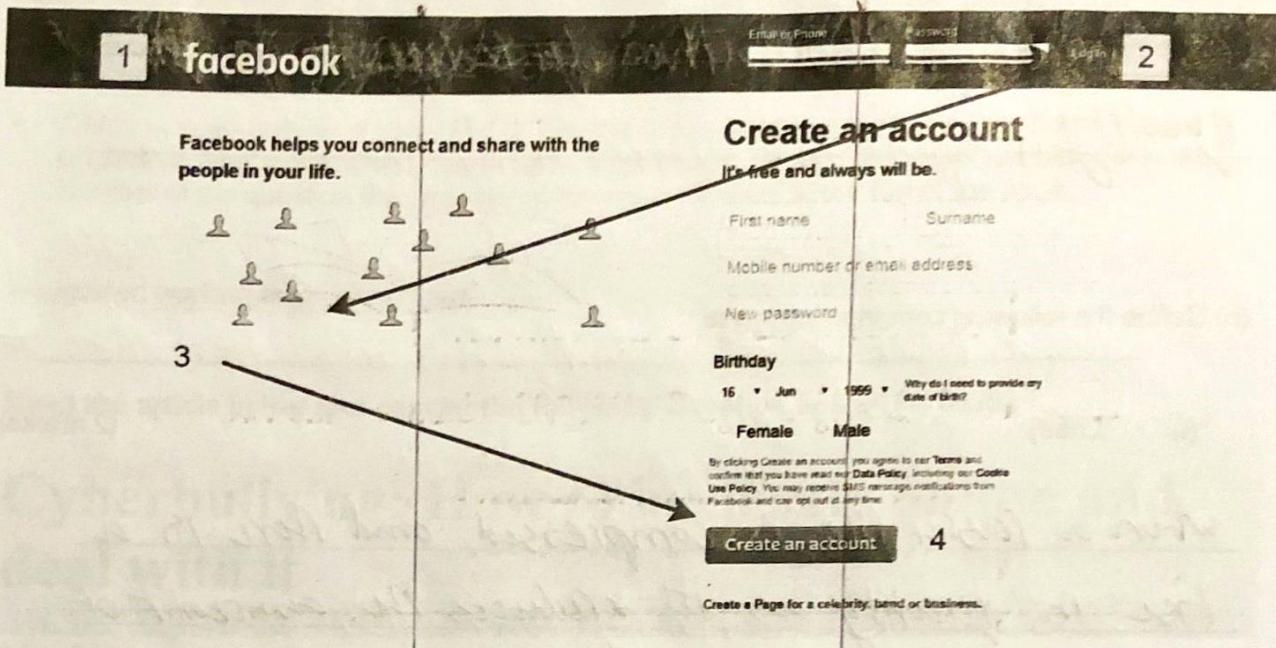
Type of Computer	Describe the type of computer and outline the category into which it fits	Operating System used on this device.
PC	<p><u>desktop computer - a</u></p> <p><u>personal computer</u> is a <u>desktop computer consisting of off the shelf parts built into a computer</u></p>	<p><u>Windows / Linux / Hackintosh / Temple OS or anything the end user can have desire</u></p>
iMac	<p><u>desktop computer - a iMac</u></p> <p><u>is a desktop computer designed & produced by Apple using their proprietary hardware. The computer has a magnetic screen</u></p>	<p><u>Mac OS</u></p> <p><u>but can also run Windows and Linux</u></p>
iPhone	<p><u>mobile device - a phone</u></p> <p><u>is a mobile device designed and produced by Apple consisting of proprietary hardware / software. It has a touch screen on it</u></p>	<p><u>iOS or MagSafe modified processor</u></p>
PS5	<p><u>console - a PS5 is a gaming console designed and produced by PlayStation AKA Sony consisting of some proprietary modified off the shelf computer parts</u></p>	<p><u>playstation proprietary OS or FF hacked home brew OSs</u></p>

modified/custom

Question 22

Discuss the Compositional Rule in use in the image below, outline its benefits when utilising this rule and the principles associated with it when developing digital designs

(4 marks)



There is a clear use of Z pattern of creation creating reading gravity which will pull the readers attention from 1 to 2 to 3, it is also associated with alignment to keep it consistent and also space to make the reading gravity more apparent.

Question 23

- (a) Define 'file compression'

(2 marks)

When the size of a file is reduced with or without the reduction in ~~the~~ ~~the~~ quality

- (b) Define the following compression types.

- (i) Lossy:

(2 marks)

When a raster file is compressed and there is a loss in quality as it reduces the amount of colours by combining close ones - usually associated with .JPG

- (ii) Lossless:

(2 marks)

When a raster file is compressed and there is no loss of ~~from~~ quality when compared to the original image - usually associated with .

End of Section 2**Next Page**

Section Three: Extended Answer**20% (35 Marks)**

This section contains **one (1)** question. Write your answers in the spaces provided and number your answers clearly.

Spare pages are included at the end of this booklet. They can be used for planning your responses and/or as additional space if required to continue an answer.

- Planning: If you use the spare pages for planning, indicate this clearly at the top of the page.
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Suggested working time: 35 minutes.

Read the article below and answer the following Question and all its parts.

Cyberbullying: How to keep safe online and deal with it

8 Jan 2014



The charity Childline says it has seen a rise in the number of children contacting it with concerns about online bullying. It saw 4,507 cases of cyberbullying in 2012-13, up from 2,410 in 2011-12.

The charity also saw a rise in concerns about self-harming, while depression and difficult family relationships were the top reasons for seeking help.

For the first time in the charity's history, more counselling took place online (59%) than by telephone (41%).

Peter Wanless, chief executive of the NSPCC charity which runs Childline, said: "The issues facing children today are very different from those that faced us as children."

"Stranger danger, for example, rarely comes up in contacts to Childline but depression, self-harm, online bullying and even suicide contacts are increasing exponentially."

"If we are to help young people we need to listen to what they are telling us about the issues they are facing."

Question 24

- (a) Provide a rational reason and discuss the increase seen in online cyber bullying (3 marks)

A sharp increase in ~~growing~~ growth of technologies and networking seen in the start of the 21st century, leading to more people on the Internet, thus more interactions, thus more cyberbullying

- (b) Discuss three mediums in which cyberbullying occurs and the forms it can take in each (6 marks)

- i) Text - it is sending messages purely with the intent of hurting another's feelings, with the form being in text.
- ii) gaming - performing actions in games online with the intent of hurting another's feelings, with the form in this case being the actions in the game.
- iii) voice calls - saying something to someone over the internet by via audio with the intent of hurting another's feelings - performing the audio calls

(c) Outline three (3) tips for staying safe online

(6 marks)

- i) don't share personal information with people you don't know.
- ii) block people that you are trusting/hanging out with.
- iii) If something does happen contact the platform and talk to a Adult role model
Keep your profiles private

(d) Discuss four (4) ways to deal with cyberbullying

(8 marks)

- i) You talking to a adult/role model about it and what you should to to stop it.
- ii) Contact the platform about it as it is usually against rules just in place and action can be taken to prevent it.
- iii) by personally taking actions like blocking the person, to prevent further ~~comunict~~ communications with said person
- iv) if you know them in real life tell someone who has authority over them so that they can discipline them

- (e) Read the following scenario and knowing what you do about cyberbullying identify the issues, who has responsibly in this scenario and how it might be stopped or prevented.

Casey loves playing games on his Xbox console, especially since it allows him to link up to and compete with other players across the world on Xbox Live. He recently met one teenager in Russia named Boris while playing Call of Duty: Advanced Warfare, and they became fast friends because both enjoyed and excelled at it. Together, they became almost unbeatable whenever they competed as a team against other teams online. At some point, though, Casey told Boris he had found a better gaming partner and didn't want to play with Boris anymore. Boris was outraged that he was being "dumped" as a gaming partner for someone else, and he began to tell other people on the gaming network that Casey "sucked" at all video games and no one should ever be his partner unless they wanted to lose really badly. Soon after these statements started circulating, Casey's new gaming partner dumped him, and everyone else on the network started to reject him (which was particularly crushing because online gaming was a safe haven in his difficult life). When coupled with recollections of other instances of rejection in his life, this experience began to make Casey feel completely hopeless. He then started to express suicidal intentions to his sister.

- (i) What are the Cyberbullying issues present in this scenario:

(4 marks)

Rumours spreading through the form of text/voice and actions in a video game, these actions were harmful for Casey and caused mental health issues, this was caused by friends drifting apart

(ii) Who has Responsibility for dealing with these issues:

(4 marks)

While Lasey was the one to initially start it
that was not necessarily cyber bullying the
Cyber bullying started when Boris retaliated and
so he was the one responsible for starting
As the issue however Lasey is now as to
deal with the consequences of the actions

(iii) What would be an effective Response to these examples of Cyberbullying

(4 marks)

Lasey should ~~not~~ block Boris, talk to an adult
about his thoughts his key having, consider
potentially attending a therapist, and best
he can trying to continue his life, playing
with other people instead

End of Section 3

Section Four: Production Question**40% (46 Marks)**

There is **one (1)** question in this section. You must answer **all** parts of the question.

Spare pages are included at the end of this booklet. They can be used for planning your responses and/or as additional space if required to continue an answer.

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Suggested working time: 55 minutes.

Question 25 (46 marks)

An advertising campaign is being put together to publicize the re-release of the hugely popular and cult favorite game from Lucas Arts – The Day of the Tentacle. As a **Graphic Designer** you have been approached to design a new poster to advertise the game. The release date for the game is July 30, 2021

The image below is what you have been given as stimulus for the poster – it is the box art from the original release in 1992.

Use this image to answer the following questions.

Image here is for example only – do not mark up this page. **Use the colour stimulus sheet.**



Question 25 – Stimulus Sheet

Name: Ruben Panzica

Principles
Elements of Design

Annotation should be on this sheet
Elements of Design
Compositional Rules

emphasize through
Contrast (Color/line)
divider

first page



color

Unity
(Color/line)

space

line
Emphasis Create
through size/scale
(Space/short)

Next Page

- (a) Outline the following **five (5)** characteristics of the likely target audience for the poster you are to design **(4 marks)**

Age: 12-20 year olds however 40-50 year olds would like the poster

Gender: males

Nationality / Culture: primarily english speaking countries

Interests: video games/video game history/retro games

- (b) From the four characteristics as you have described above, choose any **two (2)** and explain for each - What design features were present in the stimulus image that provided evidence of the link to the target audience.

(4 marks)

One:

Age- It has quite a vibrant colour palette and busy design most likely trying to appeal to the younger generation, backed up by the retro hand drawn mickael jackson art style which would also be nostalgic to older people.

Nationality/
Culture

Two the retro mickael jackson art style was very widely populated by shows such as cat dog and ren and stimpy which had massive followings in english speaking countries such as USA, England and Australia.

- (c) Identify by circling and labelling on the stimulus image and then listing below – where **three (3)** Elements of Design can be clearly seen that relate directly to the target audience.

(3 marks)

Element One: lineElement Two: colourElement Three: space

- (d) Choose **one (1)** of the three Elements identified and describe **two (2)** ways in which that Element has been used to engage the target audience. (5 marks)

Chosen Element: colour

Description One:

Red is chosen for the ray from the alien is holding this is important as it is the colour humans see first drawing attention and showing aggression through the colour choice

Description Two:

green is used for the HK and highlights on the alien as this colour is associated with aliens, this is because the green gives a sense of life and something being natural while also a sense of ambiguity as they would be quite mysterious to us and also have to be living

- (e) Identify by circling and labelling on the stimulus image and then listing below – where three (3) Principles of Design can be clearly seen. (3 marks)

Principle One: Emphasis through contrast

Principle Two: Unity

Principle Three: Emphasis created with size/scale through

- (f) Choose one (1) of the three Principles identified and describe two (2) ways in which that Principle has been used and its relationship to engaging with the target audience. (5 marks)

Chosen Element: Emphasis through Size/Scale

Description One:

here it's created with space and shape on the second cover where we see the two people running and the space around them changes to their shapes filling up any unused area, helping highlight

Description Two:

It can also be seen when comparing the size of the people on the first and second page with the first page people being much bigger highlighting their ~~first~~ greater importance in the story

- (g) Name and discuss two (2) compositional rules and how they have been effectively used in the image (6 marks)

Rule 1: reading gravity

Use:

On the first page we can clearly see F-pattern reading gravity this highlights the action, titles and information, this does not include the person making him feel out of place, swatting the intended message

Rule 2: form of content

Use:

here we can see form of content on both pages with a hamburger layout appearing between the footer and images and titles, it is also seen on the second page where the two people are being framed by the images creating a focal point/point of attention

- (h) Using the graphic designed as stimulus, prepare a design on page 25 that can be used as a promotional poster for the re-release of this classic game. Consideration must be given to making the designed graphic scalable.

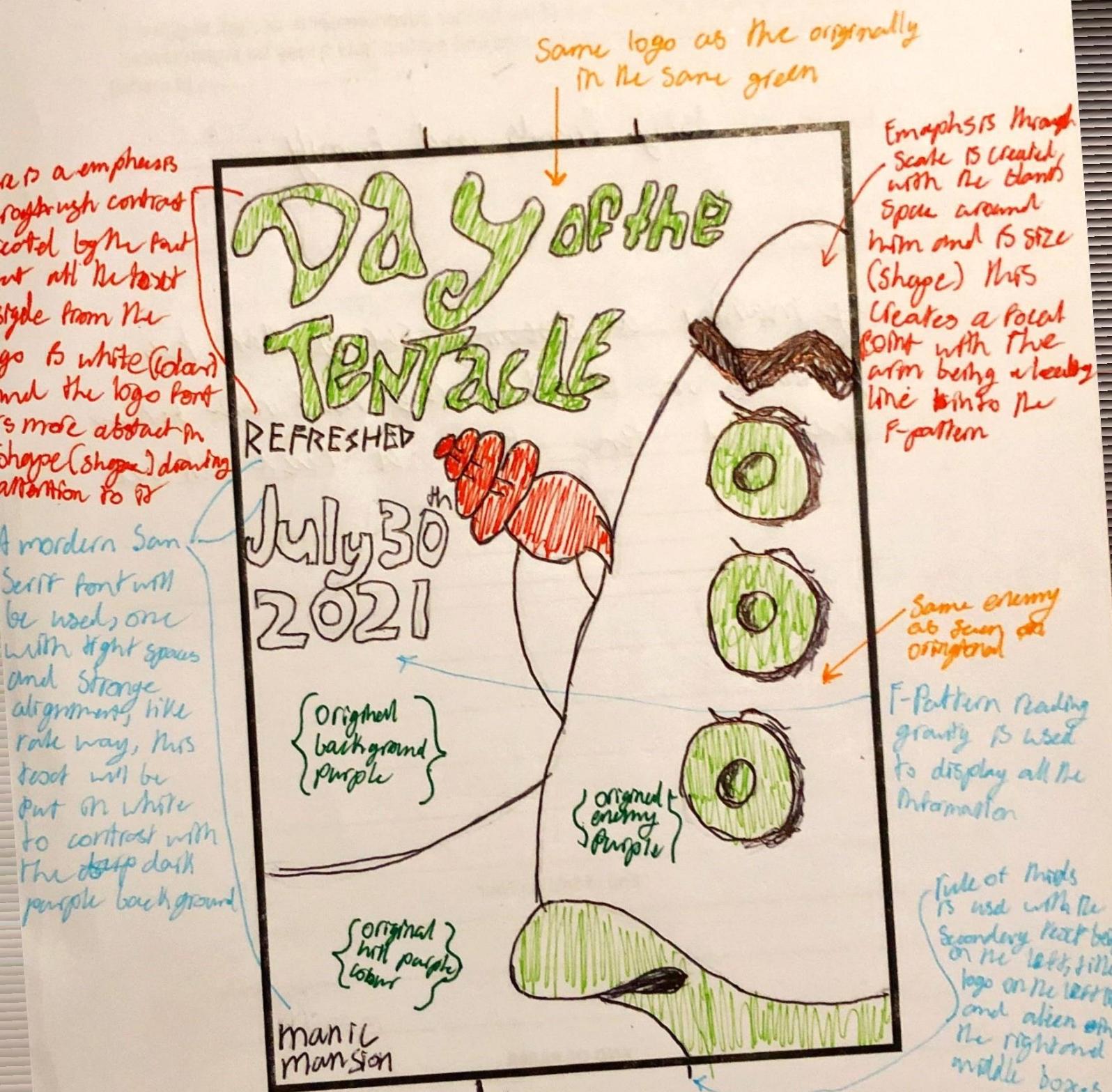
Your design must include annotations and show the:

- i) Layout and structure of your intended design considering Compositional Rules, Typography and image size / resolution. (4 marks)
- ii) Elements and Principles of Design used and the relationship between them. (4 marks)
- iii) Organisation of content suitable for the given digital medium considering where important features of the banner are placed. (2 marks)
- iv) The use of existing corporate imagery (2 marks)

Colours

(12 marks Total)

Image size used will be a standard A3 size according to the international standard



The main information like the title and release date are large and bold to highlight the main information, stuff like the refreshed text and the company text are smaller and less important, the enemy art is big to provide a familiar pace to those who know

- (i) In order to evaluate effectiveness of the banner advertisements design, suggest a type of evaluation tool that might be used and explain how it may be implemented.
(4 marks)

Evaluation Tool: Asking friends and family

Implementation:

by making a document survey that has questions on it that they must rate between one and ten from a scale back box

End of Section Four

END OF PAPER

Applied Information Technology Unit 1, 2021 - Marking Sheet

15%

Section 1		Section 2
Question 1	C	✓
Question 2	A	✓
Question 3	A	✓
Question 4	C	✗
Question 5	A	✓
Question 6	C	✓
Question 7	D	✓
Question 8	B	✓
Question 9	C	✗
Question 10	A	✓
Question 11	C	✗
Question 12	B	✓
Question 13	D	✓
Question 14	B	✓
Question 15	B	✓
Total	15	12

25%

Section 2		Section 3
Question 16 (4)	1	
a (2)	1	
b (2)	2	
c (ii)2	2	
c (iii)2	2	
Question 17(5)		untry
a (2)	∅	
b (1)	∅	
Question 21 (12)	11	
iii (2)	2	
Question 22 (4)	4	
c		
Question 18 (3)		
a (1)	1	
b (5) 4	4	
Question 23 (6)		
a (2)	2	
b (i)2	1	1 more marks
c (ii)2	1	
Question 19 (4)		
i (2)	2	
ii (2)	2	
iii (2)	2	
Total (46)	35	

20%

Section 3		Section 4
Question 24		Question 25
a (3)	3	
b (4)	4	
b (4)	4	
c (3)	3	
d (5)	5	
e (3)	3	
f (5)	5	
g (6)	5	
h (12)	11	
i (2)	2	
ii (2)	2	
i (4)	∅	not for a business.
d (8)		
Total (46)	40	

40%

Section 4	
e (12)	
i (4)	3
ii (4)	2
iii (4)	2
Total (35)	30

Name: RUBEN PANZICH

TOTAL	142
Scaled %	/100

Scaled score /20

W
i) 4
ii) 3
iii) 2
iv) 2

Scaled score /25

W
i) 4
ii) 3
iii) 2
iv) 2