higher education & training

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA

NATIONAL CERTIFICATE (VOCATIONAL)

INTRODUCTION TO COMPUTERS
NQF LEVEL 2

(10040052)

12 November 2018 (X-Paper)
09:00–12:00

Calculators may NOT be used.

This question paper consists of 7 pages.

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TIME: 3 HOURS
MARKS: 100

INSTRUCTIONS AND INFORMATION

1. Answer ALL the questions.
2. Read ALL the questions carefully.
3. Number the answers according to the numbering system used in this question paper.
4. Keep subsections of questions together.
5. Sketches must be neat.
6. Write neatly and legibly.

NCV

SECTION A

QUESTION 1

1.1 Choose a term from COLUMN B that matches a description in COLUMN A. Write only the term next to the question number (1.1.1–1.1.10) in the ANSWER BOOK.

COLUMN A		COLUMN B	
1.1.1	A series of eight bits	A	ISP
1.1.2	The internet protocol used for sending emails to a mail server	B	digital
1.1.3	A tool that examines the disk for errors	C	firewall
1.1.4	A company that provides internet connections and services to individuals and organisations	D	byte
1.1.5	Templates providing themes and layout to quickly and easily create presentations	E	scan disk
1.1.6	A quantity with a discrete set of values	F	run
1.1.7	Characterised by rise time, fall time and amplitude	G	disk drive
1.1.8	A part of a computer system or network that is designed to protect the network and blocks unauthorised access	H	printer
1.1.9	A window that enables you to run programs from the command line of the PC	I	SMTP
1.1.10	The most popular output peripheral that produces hard copies	J	PowerPoint
		K	POP
		L	pulse

(10 × 1) (10)

1.2 State the difference between the Boolean operators AND and OR used in an expression.

1.2.1 Use distributive law to evaluate the following expression:

X.(Y+X)

1.2.2 Use commutative law to evaluate the following expression:

X+Y

(2 × 2) (4)

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1.3 Name THREE number systems that are used in a digital computer. (3)

1.4 Convert the following numbers into decimal form. Show ALL the steps.

1.4.1 $(10100)_2$

1.4.2 $(111000)_2$

(2 × 3) (6)

1.5 Convert the following octal numbers into binary form. Show ALL the steps.

$(3)_8$ (2)

1.6 What is the hexadecimal digit of the following numbers:

1.6.1 $(11)_{10}$

1.6.2 $(14)_{10}$

(2 × 2) (4)

1.7 Various options are given as possible answers to the following question. Choose the answer and write only the letter (A–D) next to the question number in (1.7) in the ANSWER BOOK.

A volatile programmable link technology is: Choose only one answer.

A Fuse
B EPROM
C SRAM
D EEPROM (1)

[30]

TOTAL SECTION A: 30

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SECTION B

QUESTION 2

2.1 Explain TWO types of computer memory. (2)

2.2 Name FIVE ongoing aspects of the maintenance and care of a computer.

2.3 Study the taskbar in FIGURE 1 below and name the labelled items. Write only the answer next to the letter (A–E) in the ANSWER BOOK. (5)

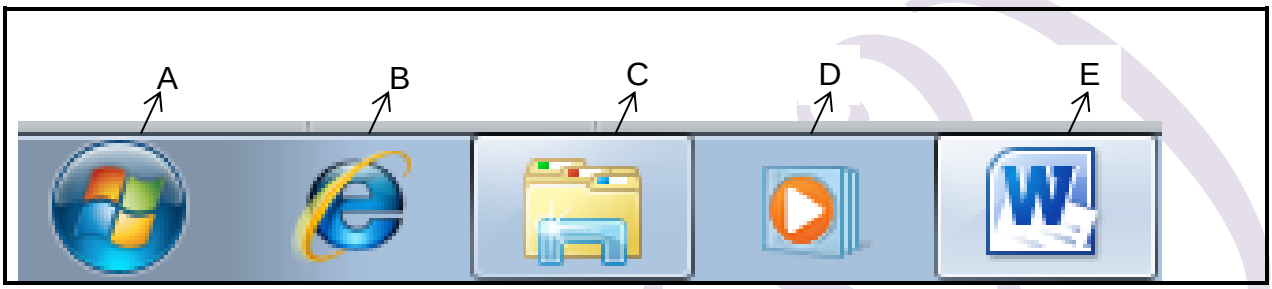

FIGURE 1 (5)

2.4 Give TWO reasons for formatting a disk. (2)

[14]

QUESTION 3

3.1 What is an *intranet*? (2)

3.2 Email has a lot of advantages over conventional mail.

List any THREE advantages of using email. (3)

3.3 The email address section of the message presents three options for specifying the recipients of the message.

3.3.1 Name TWO options for specifying the recipients of the message.

3.3.2 Give TWO email protocols.

(2 × 2) (4)

3.4 What does the acronym ISP stand for? (2)

3.5 List FIVE components of a computer. (5)

3.6 State the difference between WLAN and WWAN. (2)

3.7 Give THREE types of topologies. (3)

3.8 Name THREE commonly used types network cabling. (3)

[24]

QUESTION 4

4.1 Explain the difference between *client application* and *web-based application*. (4)

4.2 Name any TWO examples of web-based applications. (2)

4.3 Give any TWO examples of web browsers. (2)

4.4 List any FOUR web transactions that can be performed on the internet. (4)

4.5 Troubleshooting is about problem solving – searching for the source of a problem so that the problem can be resolved.

List THREE types of computer troubleshooting. (3)
[15]

QUESTION 5

5.1 List any FOUR examples of search engines (4)

5.2 Study the screen printout on FIGURE 2 below and answer the questions that follow.

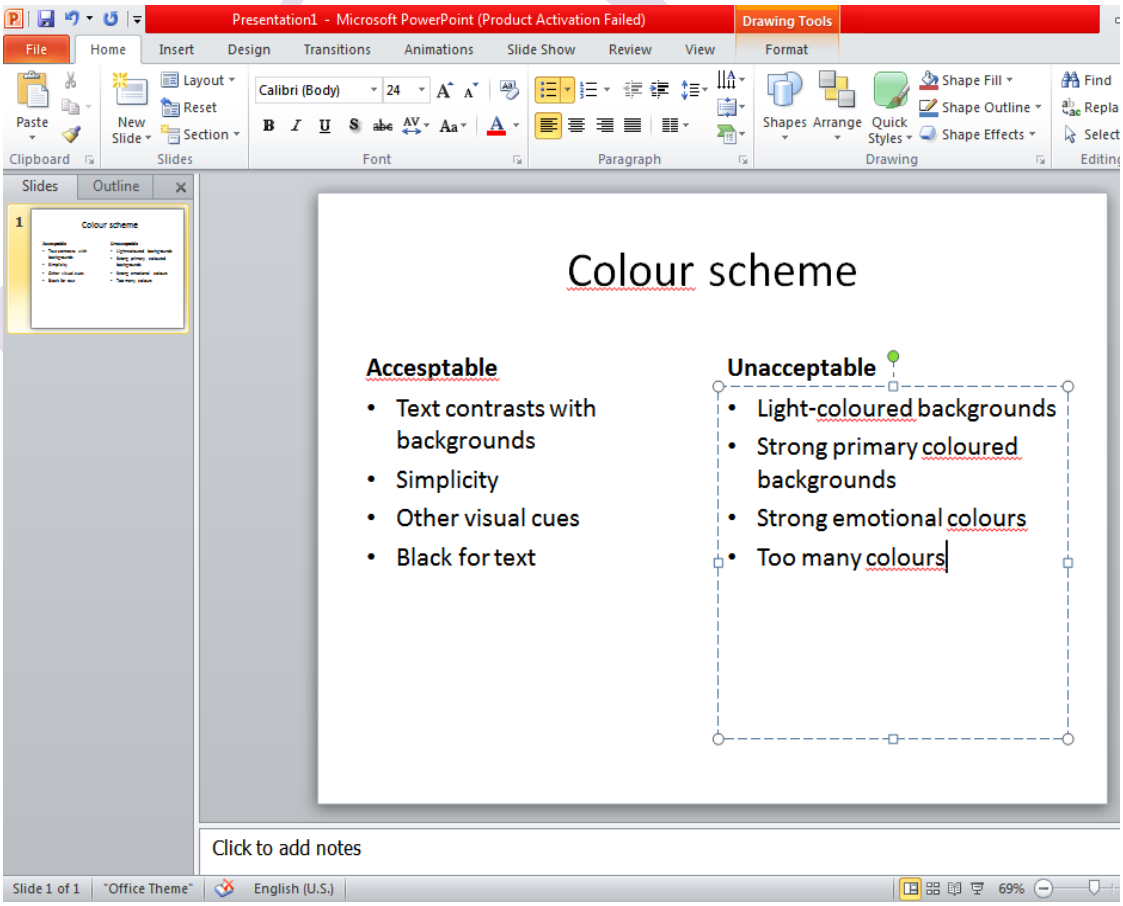

FIGURE 2

5.2.1 What is the file extension of a Microsoft PowerPoint presentation? (2)

5.2.2 What is the default file name of the application in FIGURE 2 above? (1)

5.3 Name any THREE types of animations that may be applied to a slide presentation. (3)

5.4 Give FIVE steps to be followed when printing a presentation as handouts. (5)

5.5 Explain TWO advantages of printing handouts rather than printing full slide pages. (2)

[17]

TOTAL SECTION B: 70
GRAND TOTAL: 100

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