

0706024/2&1 B.B.E.K.O
June 2024
COMPUTING 2 & 1
Essay and Objective
2 hours

2 & 1

Name

Index Number.....

Signature

Date of Examination

BEST BRAIN EXAMINATIONS KONSORTIUM GHANA

Special Private Mock Examinations For BECE Candidates

June 2024

COMPUTING 2&1

2 hours

Do not open this booklet until you are told to do so. While you are waiting, read and observe the following instructions carefully. Write your name, index number, signature, and date of examination in ink in the spaces provided above.

This booklet consists of two papers. Answer Paper 2 which comes first, in the booklet and Paper 1 on your Objective Test answer sheet. Paper 2 will last 1 hour 15 minutes. Do not start Paper 1 until you are told to do so. Paper 1 will last 45 minutes. At the end of the examination, submit the entire question paper to the invigilator.

Any candidate who tears off any part of the question paper will be severely penalized.

Whether you answer all the questions in this paper or not, hand in the entire question paper to the invigilator.

ANLOGA DISTRICT COHBS MOCK

For Examiner's Use Only	
Question Number	Mark



GHANA
EDUCATION
SERVICE

© 2024 Best Brain Examinations Konsortium
(020-7732900 / 0249273049/ 0248726958)

0706024 COMPUTING 2&1 bbeko

This paper is in two sections A and B. Answer Question 1 in Section A and any other three questions in Section B.

Answer **all** the questions in the spaces provided in this question paper. At the end of the examination, you should submit the **entire** question paper to the invigilator.

Any candidate who tears off any part of the question paper will be **severely** penalized.

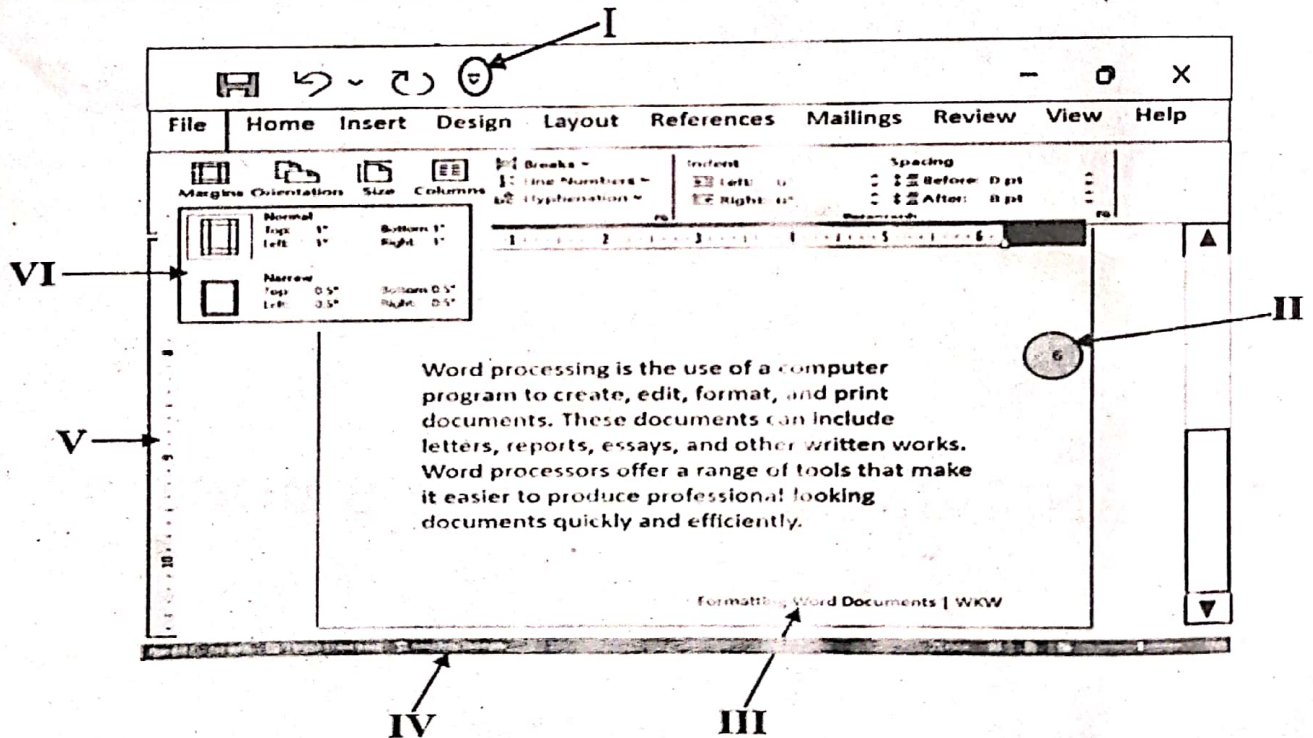
Whether you answer all the questions in this paper or not, hand in the **entire** question paper to the invigilator.

Credit will be given for clarity of expression and orderly presentation of material.

SECTION A
[24 marks]

Answer question 1
[Compulsory]

1. (a) Study the word document interface below and answer the following questions.



- (i) Write the title, *Word Processing* at the right location in the document above.
[1 mark]

- (ii) Identify the parts of the document above labelled I, II, III, IV, V, and VI.

I: II:
III: IV:
V: VI:
[3 marks]

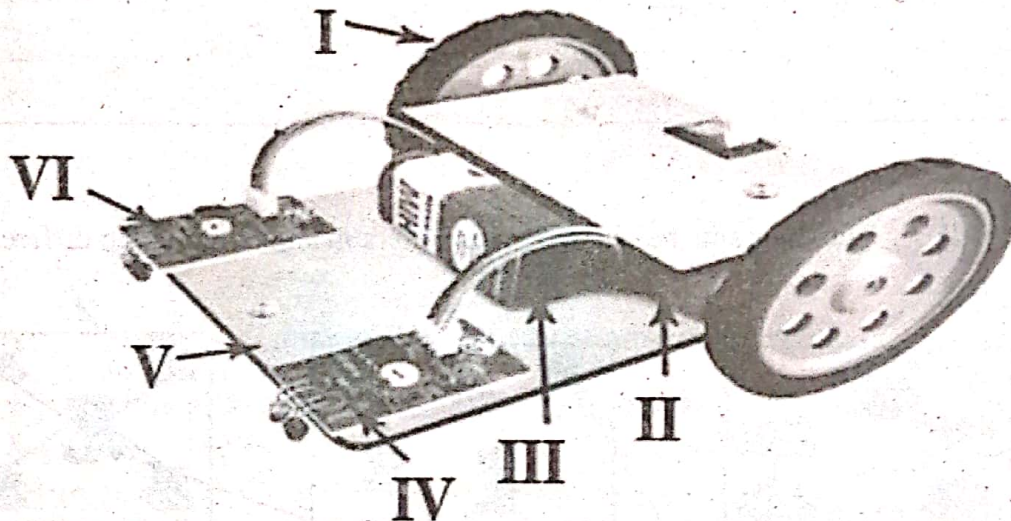
(iii) Identify the ribbon tab shown in the document above.

[1 mark]

(iv) What is the alignment of the text in the document above?

[1 mark]

(b) The diagram below shows a Line Follower Robot (LFR) that detects a black line on a white surface and follows it autonomously.



(i) Complete the table below on the parts of the LFR labelled above.

PART	NAME	FUNCTION
I	Wheels	
II		Drives the wheels of the robot
III	Battery	
IV		Used to detect the line on the ground
V		Serves as the structural framework of the robot and it holds all the components together.
VI	Infra-Red (IR) Sensor	

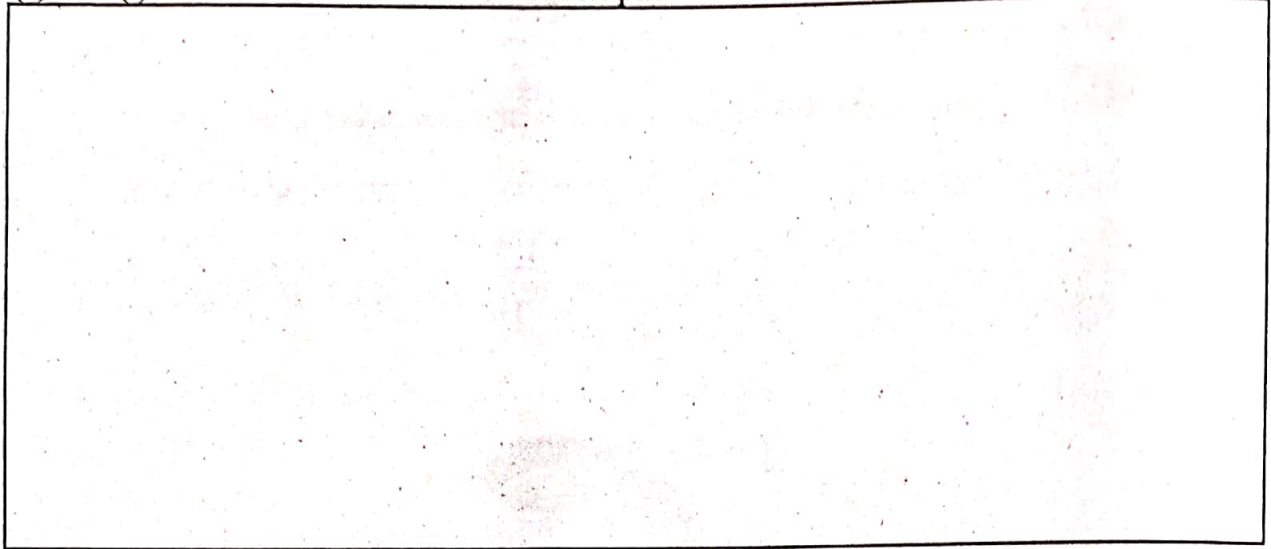
[6 marks]

(ii) Give two real life applications of the line follower robot (LFR)

[2 marks]

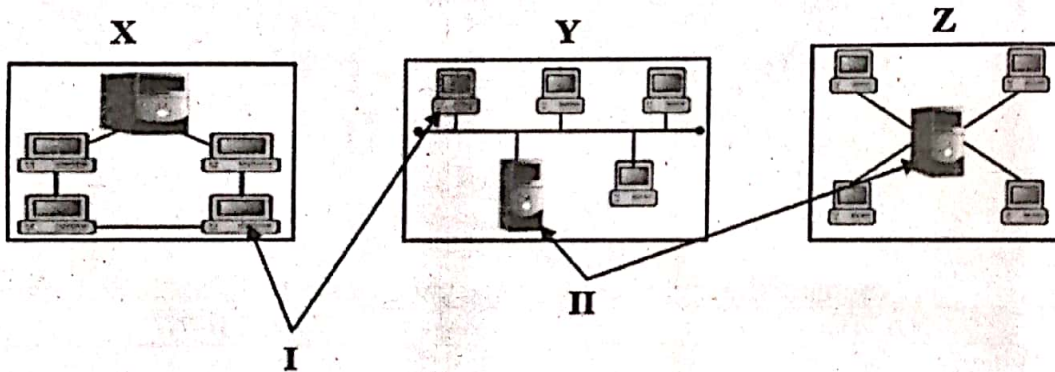
Turn over

- (c) (i) Draw to show how four computers can be networked in a full mesh topology.



[2 marks]

- (ii) The diagrams below show computers in a network using different topologies.



- (α) What name is given to the group of computers labelled I and II above?

I II:.....

[2 marks]

- (β) Name and describe each of the network topologies labelled X, Y and Z.

X:

.....

.....

Y:

.....

.....

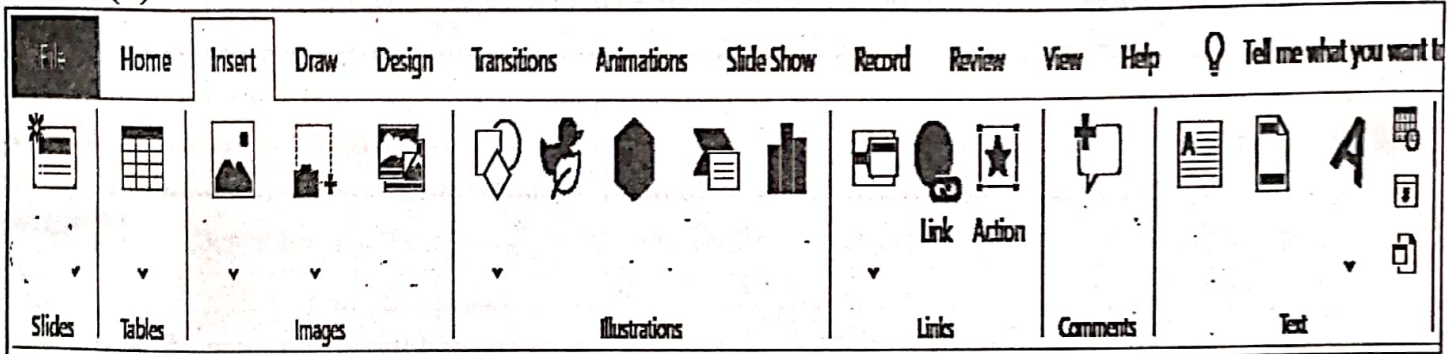
Z:

.....

.....

[3 marks]

(d) Below is an Insert tab in MS PowerPoint.



Identify **two** tools in each of the following command groups in the tab above.

- (i) Text:
 (ii) Illustrations:
 (iii) Images:

[3 marks]

SECTION B

[36 marks]

Answer three questions only in this section.

2. (a) Write the steps to insert the following in a word document:

- (i) *page number*;

- (ii) *footer*.

[4 marks]

(b) State **two** uses of the status bar in a word document.

[2 marks]

(c) State **two** *advantages* of a ring network topology.

[3 marks]

Turn over

- (d) State **two disadvantages** of a ring network topology.

[3 marks]

3. (a) Give **three special features** of a server in a network and the importance of each.

[3 marks]

- (b) (i) A final grade is based on the average of homework (20%), quizzes (30%) and exams (50%). If the scores are in cells F1, F2, F3 of an Excel worksheet respectively, using the correct operators, write an Excel formula to calculate the final grade.

[2 marks]

- (ii) Compute the results of the following Excel formulas:

$=2^3 * (4 - 5)$

$=3 + (6 * 5) + 6 / 3 - 7$

[2 marks]

- (c) Explain the following background personalization options on a Windows computer:

- (i) *Solid color*;

- (ii) *Slide show*;

- (iii) *Picture*.

[3 marks]

- (d) Explain the following terms as used in robotics:

- (i) *Automation*:

(ii) *Actuator arms.*

[2 marks]

4. (a) Describe how you would access the hidden icons in the system tray on the taskbar.

[2 marks]

(b) You are to design a PowerPoint presentation on environmental conservation. Give the graphic feature you would use for designing each of the following and explain why it is best suited for the purpose:

(i) *A slide that outlines the main points in your presentation;*

(ii) *A bar graph that shows data on deforestation rates.*

[4 marks]

(c) Give **two** advantages of using Excel to help organize the finances of an event.

[2 marks]

(d) Write the steps to create a PowerPoint presentation of your graduation photo collection.

[4 marks]

Turn over

5. (a) Give the use of the following computing networking devices:

(i) Switch;

(ii) Router.

[2 marks]

(b) State **three** common features shared by smartphones and smart watches.

[3 marks]

(c) Describe how you would pin an application to the Start menu in Windows 10.

[4 marks]

(d) Give **two** reasons why robots are more efficient than humans at repetitive jobs.

[3 marks]

END OF ESSAY TEST

DO NOT TURN OVER THIS PAGE UNTIL YOU ARE TOLD TO DO SO.

YOU WILL BE PENALIZED SEVERELY IF YOU ARE FOUND LOOKING AT THE NEXT PAGE BEFORE YOU ARE TOLD TO DO SO.

PAPER 1
OBJECTIVE TEST

45 minutes

Answer all the questions on your Objective Test answer sheet.

1. Use **2B** pencil throughout.
2. On the pre-printed answer sheet, check that the following details are **correctly** printed:
Your **surname** followed by your **other names**, the *Subject Name*, your *Index Number*,
Centre Number and the *Paper Code*.
3. In the boxes marked *Candidate Number*, *Centre Number* and *Paper Code*, **reshade** each of the shaded spaces.
4. An example is given below. This is for a candidate whose name is Seyram BABANAWO. Her index number is 772384188 and she is writing the examination at Centre Number 77234. She is offering *Computing 1* and the Paper Code is 4510.

BEST BRAIN EXAMINATION KONSORTIUM SPECIAL PRIVATE MOCK FOR BECE CANDIDATES OBJECTIVE ANSWER SHEET.

CANDIDATE NAME: SEYRAM BABANAWO	SUBJECT: COMPUTING 1
---	--------------------------------

1. Use HB Pencil Press firmly
2. Answer each question by choosing one letter and then, shade through the letter chosen like this
[A] ☒ [C] [D] [E]
3. If you want to change an answer, rub out your

4. First mark completely
If only four alternative answers are given for each question, ignore the letter E
5. Your question paper may have fewer than 60 Questions.

CANDIDATE NUMBER									
7	7	2	3	8	4	1	8	8	
[0]	[0]	[0]	[0]	[0]	[0]	[0]	[0]	[0]	
[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	
[2]	[2]	[2]	[2]	[2]	[2]	[2]	[2]	[2]	
[3]	[3]	[3]	[3]	[3]	[3]	[3]	[3]	[3]	
[4]	[4]	[4]	[4]	[4]	[4]	[4]	[4]	[4]	
[5]	[5]	[5]	[5]	[5]	[5]	[5]	[5]	[5]	
[6]	[6]	[6]	[6]	[6]	[6]	[6]	[6]	[6]	
[7]	[7]	[7]	[7]	[7]	[7]	[7]	[7]	[7]	
[8]	[8]	[8]	[8]	[8]	[8]	[8]	[8]	[8]	
[9]	[9]	[9]	[9]	[9]	[9]	[9]	[9]	[9]	

CENTRE NUMBER				
7	7	2	3	4
[0]	[0]	[0]	[0]	[0]
[1]	[1]	[1]	[1]	[1]
[2]	[2]	[2]	[2]	[2]
[3]	[3]	[3]	[3]	[3]
[4]	[4]	[4]	[4]	[4]
[5]	[5]	[5]	[5]	[5]
[6]	[6]	[6]	[6]	[6]
[7]	[7]	[7]	[7]	[7]
[8]	[8]	[8]	[8]	[8]
[9]	[9]	[9]	[9]	[9]

PAPER CODE			
4	5	1	0
[0]	[0]	[0]	[0]
[1]	[1]	[1]	[1]
[2]	[2]	[2]	[2]
[3]	[3]	[3]	[3]
[4]	[4]	[4]	[4]
[5]	[5]	[5]	[5]
[6]	[6]	[6]	[6]
[7]	[7]	[7]	[7]
[8]	[8]	[8]	[8]
[9]	[9]	[9]	[9]

For Supervisors Only.

If candidate is absent shade this space



© 2024 Best Brain Examinations Konsortium
(020-7732900 / 0249273049 / 0248726958)

0706024 COMPUTING 2&1 bbeko

Answer **all** the questions.

Each question is followed by **four** options lettered **A** to **D**. Find the **correct** option for each question and shade in **pencil** on your answer sheet the space which bears the same letter as the option you have chosen. Give only **one** answer to each question. An example is given below.

A group of files are stored in a

- A. graphic
- B. folder
- C. text
- D. word

The correct answer is folder, which is lettered **B** and therefore answer space **B** would be shaded.

☐ A ☒ B ☐ C ☐ D

Think carefully before you shade the answer spaces. Erase completely any answer you wish to change.

Do all rough work on this paper.

Now answer the following questions.

1. Which of the following are **true** about the internet?
 - I. The collection of all websites in the world is called world wide web.
 - II. A search engine helps us find useful sites in the world wide web.
 - III. When we find a website that we like, we can use a *bookmark* to help us find it again.
 - IV. A blog is a web page which you can update regularly
 - A. I, II and IV only.
 - B. II, III and IV only.
 - C. I, II, III and IV.
 - D. I, III and IV only.
2. You can draw objects such as circles and rectangles in a PowerPoint slide using
 - A. textbox.
 - B. shapes.
 - C. charts.
 - D. tables.
3. *Setting the Window color* in a Windows computer will **not** change the color of the
 - A. windows frame.
 - B. task bar.
 - C. start menu.
 - D. desktop background.
4. The opening screen for windows where you begin your work using the computer is called
 - A. task pane.
 - B. dialog box.
 - C. desktop.
 - D. insertion point.
5. Robots have allowed manufacturers to make products with
 - A. higher quality and reduced price.
 - B. lower quality and increased quantity.
 - C. larger quantities and reduced packaged size.
 - D. higher quality and increased cost.
6. The way a computer network is laid out, either physically or logically constitutes its
 - A. topology.
 - B. line configuration.
 - C. transmission mode.
 - D. modulation mode.
7. The right formula to compute the total income of a firm, from unit price and quantity sold is
 - A. =SUM(UnitPrice, QuantitySold).
 - B. =UnitPrice*QuantitySold.
 - C. =AVG(UnitPrice, QuantitySold).
 - D. MIN(UnitPrice, QuantitySold).

8. SmartArt in PowerPoint is used to create
- Text Boxes.
 - Tables.
 - Smartgraphics.
 - Background images.
9. In a star topology, if one link fails
- only that link is affected.
 - that link is not affected.
 - all other links are affected.
 - few links are affected.
10. The Excel formula $=A1*0.15$ calculates
- 15% of the value in cell A1.
 - 1015 times the value in cell A1.
 - 1015% of the value in cell A1.
 - product of the value in cell A1.
11. The function of a robot gripper is to
- control the robot's movement.
 - rotate right and left.
 - grab and hold objects.
 - keep the robot from slipping.
12. The tool under the Insert ribbon of PowerPoint used to add text to a slide is
- Picture.
 - Text Box.
 - Shape.
 - SmartArt.
13. The latest version of Microsoft Windows operating system is
- Windows XP.
 - Windows 10.
 - Windows 24.
 - Windows 11.
14. The Excel function used to find the highest value in a range of cells is
- MAX.
 - MIN.
 - AVERAGE.
 - COUNT.
15. Which of the following is **not** a purpose served by machine learning?
- Diagnosing illnesses
 - Making robots
 - Weather forecasting
 - Understanding speech
16. One part of a robot is fixed to another part of the robot by the
- stationary base.
 - hand.
 - joint.
 - knuckle.
17. When you use the paint program to draw, you
- draw with your mouse.
 - draw in the canvas.
- III. hold and move the right mouse button.
- IV. can use a 'Pencil' or 'Brush'.
- I, II and III only.
 - I, III and IV only.
 - I, II, III and IV.
 - I, II and IV only
18. One great advantage robots have over other automatic machines is that robots
- are programmed.
 - are made of metal.
 - are modern.
 - last a long time.
19. The clock in a CPU clicks 3 billion times
- every second
 - every minute
 - every hour
 - every 3 minutes
20. Robots relieve humans from
- working with tech computers.
 - thinking every day.
 - completing hazardous jobs.
 - working with other humans.
21. A website refers to
- anything on the internet.
 - the way a program is used.
 - a collection of web pages.
 - a plan to solve a problem.
22. A password is strong when it has
- letters, signs and emojis.
 - more than ten characters.
 - upper- and lower-case letters.
 - letters and numbers.
- I, II and III only.
 - I, II and IV only.
 - I, II, III and IV.
 - II, III and IV only.
23. The industrial robotic arm is a
- moving robot.
 - fixed robot.
 - controlled robot.
 - programmable robot.
24. To put a web page on an internet server for internet users to access is known as
- broadcasting.
 - publishing.
 - documentation.
 - registration.
25. People with disabilities are aided by
- assistive technologies.
 - natural devices.
 - operational manuals
 - special internet servers

Turn over

26. A Mini PC can be used for
 I. accessing the internet for browsing.
 II. running productivity software for document creation.
 III. tracking fitness metrics like heart rate.
 IV. intensive video editing.
 A. I, II and IV only.
 B. II, III and IV only.
 C. I, II, III and IV.
 D. I, III and IV only.
27. Which of the following are key ideas in the ethics of care on social media?
 I. We depend on each other.
 II. Not everyone feels strong all of the time.
 III. What we share should protect and promote better lives for us.
 A. I, II and III
 B. II and III only
 C. I and II only
 D. I and III only.
28. An example of a device that uses Infra-red technology is
 A. traffic light.
 B. remote control.
 C. radio station.
 D. hard disk drive.
29. The three parts of a CPU are joined together by connections called
 A. buses.
 B. networks,
 C. lines.
 D. links.
30. Which network topology requires a multipoint connection?
 A. Bus
 B. Star
 C. Mesh
 D. Ring.
31. A flying robot which can be remotely controlled or works freely is called
 A. bus.
 B. web.
 C. drone.
 D. spider.
32. Robotics combines knowledge in
 A. computing and internet.
 B. computing and engineering.
 C. internet and electronics
 D. electronics and chemistry.
33. The name of the presentation file in PowerPoint is displayed on the
 A. slide thumbnail.
 B. workspace.
 C. title.
 D. window.
34. What must be common between two data tables to create a relationship?
 A. Fields
 B. Files
 C. Characters
 D. Names
35. A column in a data table is called a
 A. unit.
 B. field.
 C. row.
 D. record.
36. Which SQL statement is used to extract data from a database?
 A. EXTRACT
 B. OPEN
 C. GET
 D. SELECT
37. The four main objects of a relational database are
 A. form, table, query, report.
 B. form, sort, table, query.
 C. form, table, database, query.
 D. form, column, row, report.
38. Which of the following are **true** about an algorithm?
 I. It is a plan to solve a problem.
 II. It sets out the steps in order.
 III. You can use it as a program plan.
 A. I and II only
 B. II and III only
 C. I and III only
 D. I, II and III
39. The two digits used by a computer are
 A. Zero (0) and one (1).
 B. one (1) and two (2).
 C. Zero (0) and two (2)
 D. two (2) and three (3)
40. The CPU is made up of the following parts **except**
 A. control unit.
 B. arithmetic and logic unit.
 C. system tray.
 D. clock.

END OF PAPER