1. Which of the following sequences of instructions does the Control Unit perform?

(A) Decodes, executes and fetches
(B) Fetches, decodes and executes
(C) Executes, decodes and fetches
(D) Fetches, executes and decodes

Item 2 refers to the following diagram.



2. The above diagram represents a data capture method called

(A) MICR
(B) OCR
(C) OMR
(D) USB

3. Which of the following is MOST suitable for printing multi-form sheets?

(A) Ink-jet
(B) Dot-matrix
(C) Laser
(D) Plotter

4. The decimal equivalent for the binary coded decimal number 0011 0101 is

(A) 10
(B) 31
(C) 35
(D) 53

5. The four-bit binary representation of the decimal number 8 is

(A) 1000
(B) 0100
(C) 0010
(D) 0001

6. An example of a menu interface is a

(A) Pop-up
(B) Pop-down
(C) Push-pull
(D) Pull-up

7. Which of the following is easy to remember and makes Graphical User Interfaces user-friendly?

(A) Icon
(B) Menu
(C) Mouse
(D) Window

8. An extranet is a network that is

(A) private
(B) public
(C) private with selected access from public network users
(D) public with selected access from private network users

9. Which of the following is an advantage of using credit or debit cards?

(A) The card can be stolen.
(B) The owner can carry less cash.
(C) The owner can spend more money.
(D) The magnetic strip can be damaged.

10. How can repetitive strain injury be avoided when using a computer?

(A) Use a foot rest.
(B) Use an ergonomic keyboard.
(C) Ensure that there is no screen flicker.
(D) Use an anti-glare screen.

11. A wedge-shaped slice on a disk is referred to as a

(A) buffer
(B) cylinder
(C) sector
(D) track

12. Which of the following units performs mathematical calculations?

(A) Control
(B) Fetch
(C) Arithmetic and logic
(D) Central processing

13. Which of the following actions must be taken to get to record Number 50 of 100 records on a floppy disk?

(A) Convert to tape.
(B) Fast forward to record 100, and then read backward.
(C) First read records 1 through 49.
(D) Go directly to record 50.

14. Which of the following is NOT true of secondary storage media?

(A) Pictures and text can be stored.
(B) Storage capacity is typically around 1.44 MB.
(C) Information can be accessed more quickly than magnetic disks.
(D) Can store large amounts of data.

15. Disguising data and programs is also called

(A) translation
(B) encryption
(C) conversion
(D) compilation

16. Which type of cable is used for telephone cables?

(A) Aluminium-alloy
(B) Coaxial
(C) Fiber-optic
(D) Twisted-pair

17. When a file is removed completely from a disk, the data is

(A) deleted from the disk
(B) read from the disk
(C) saved to the disk
(D) shared on the disk

18. A type of utility program used to reduce the size of a program is

(A) a file compression program
(B) a troubleshooting program
(C) an anti-virus program
(D) an un-install program

19. Which of the following CANNOT be used to represent positive and negative numbers?

(A) Binary coded decimal
(B) Hexadecimal conversion
(C) Sign and magnitude
(D) Two's complement

20. What is the corresponding decimal value of 111 (base 2)?

(A) 5
(B) 6
(C) 7
(D) 8

21. The number –14 in 8-bit two's complement is
(A) 00001110
(B) 11110001
(C) 11110011
(D) 11110010

22. Which of the following is TRUE for parity?
(A) Uses a different code for each symbol
(B) Is an error-checking system
(C) Represents data in digitized electronic pulses
(D) Is an example of continuous data

23. Ramon is very interested in teaching users about a particular software program, and showing them how to print their reports. He may want to consider a career as
(A) a computer trainer
(B) an electrical engineer
(C) an end-user support specialist
(D) a systems engineer

24. What is the name of the folder that contains the web page in the fictitious URL given below?

http://www.faceme.com/friends/index.htm

(A) http
(B) friends
(C) www.faceme.com
(D) index.htm

25. Which of the following is an example of a data type check?
(A) Ensuring that numbers are positive in a quantity ordered field
(B) Examining whether or not a field is the required type in a date field
(C) Requiring a user to enter his or her e-mail address twice
(D) Testing that only letters are entered in a name field

26. Which of the following is detected by using a pressure sensor?
(A) Activity
(B) Light
(C) Warmth
(D) Weight

27. Wireless transmission media do NOT include
(A) coaxial
(B) line-of-sight
(C) satellite
(D) infrared

28. Which of the following represents the function of a modem?
(A) Analog and download
(B) Analog and digital
(C) Digital and upload
(D) Download and upload

29. In which of the following file formats can music files be compressed?
(A) gif
(B) jpeg
(C) mp3
(D) mpeg

30. Which of the following is TRUE of a stand-alone computer?

(A) Organises data among computers.
(B) Allows users to obtain data from a central computer
(C) Receives data from one computer
(D) Enables two or more computers to communicate

31. The first-generation programming language is called

(A) Assembly
(B) BASIC
(C) Machine
(D) Non-procedural

32. Errors that result from NOT following rules of the programming language are called

(A) execution errors
(B) logic errors
(C) run-time errors
(D) syntax errors

33. An example of a run-time error is

(A) If (Answer<10) then writeln ('Yes')
(B) While (Answer 12) Do write ('Yes')
(C) Repeat (write("Yes")) until (Answer <10)
(D) Answer := answer/(10-10)

34. At which stage of program development should desk checking be included?

(A) After the debugging phase
(B) During the design phase
(C) During the testing phase
(D) At every phase

Items 35 – 36 are based upon the following declarations in Pascal.

```
Var     Count:Integer;
        Price:Real;
        Discount :integer;
```

35. The following is a fragment of code.

```
Count := 3;
Discount := 0;
While (Discount < Count) Do
        Begin
                Write ('*');
                Count := Count –1;
        End
```

What is the output of the above fragment of code?

(A) **
(B) ***
(C) ****
(D) There will be no output, because the code has an error.

36. The following is a fragment of code.

```
For Discount := 10 to 12 Do
        Write ('&&')
```

What is the output of the above fragment of code?

(A) &&
(B) &&&
(C) &&&&&&&
(D) Nothing will be printed.

37. In Pascal, the symbol <> means

(A) less than and greater than
(B) less than or greater than
(C) equal to
(D) not equal to

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38. In Pascal, what does COUNT represent?

(A) An assignment
(B) A condition
(C) A declaration
(D) A variable

39. Assigning 3.14 to pi(π) means that pi should be declared as

(A) integer
(B) real
(C) string
(D) char

40. How many times will the following loop be executed?

```
for mark := 0 to 2 do
  writeln('*');
```

(A) 0
(B) 2
(C) 3
(D) 4

41. The function of a compiler is to convert

(A) program code line by line
(B) an entire program
(C) a program efficiently
(D) the language to source code

42. The LAST step in solving a program is to

(A) evaluate solutions
(B) test the solution
(C) develop the algorithm
(D) specify and design

43. The Pascal term used to see results on the printer or computer monitor is called

(A) input
(B) read
(C) write
(D) output

Item 44 is based on the Pascal code below.

```
For x := 1 to 5 Do
        ITEM[x] := 0;
```

44. The purpose of the Pascal code is to

(A) Place x in ITEM
(B) Place 0 in ITEM
(C) Place 1 to 5 in x
(D) Place the numbers 1 to 5 in ITEM

45. Which of the following statements includes loops?

(A) Sequencing
(B) Repetition
(C) Selection
(D) Ordering

46. For the submission of your SBA report, you are required to include your name and the name of your school at the top of every page of your report. Which of the following would you use to achieve this?

(A) A footnote
(B) A page break
(C) A header
(D) A footer

47. Selecting or highlighting a paragraph creates a

(A) block
(B) document
(C) file
(D) merge

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48. Given (3y*4) the symbol * is an example of

(A) multiplication
(B) power
(C) subscript
(D) superscript

49. The first page that is usually displayed in a web browser is called a

(A) layout
(B) hyperlink
(C) website
(D) home page

50. Which of the following activities is NOT involved in publishing a website?

(A) Uploading files
(B) Uploading images
(C) Creating a web page
(D) Using a web browser

51. Which of the following is NOT a use for hyperlinks?

(A) Linking to an email address
(B) Linking to a website
(C) Linking to another location within the web page
(D) Copying a file to a web server

52. What type of chart is NOT suitable for representing data over two years as shown in the table below?

Country	2009	2010
A	300	600
B	500	800
C	500	600

(A) Line chart
(B) Column chart
(C) Bar chart
(D) Pie chart

53. Which of the following is NOT associated with the filtering or extraction of records in a spreadsheet?

(A) Copy to range
(B) List range
(C) Criteria range
(D) Value range

54. The function that produces the position of a number or item in a sorted list is

(A) Sum
(B) Vlookup
(C) Rank
(D) Count

55. Producing information from queries and tables in a specific format that can be printed from a database is called

(A) a file
(B) an object
(C) a query
(D) a report

56. To join two database tables, EACH table must have

(A) at least two keys in the table
(B) the same data in both tables
(C) composite keys
(D) at least one common field name

57. A data type that represents Boolean values of True or False is called

(A) number
(B) text
(C) date
(D) logical

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58. The symbol  in a presentation is used for

(A) slide show view
(B) notes view
(C) outline view
(D) normal view

59. Slides can be rearranged by using the

(A) slide sorter
(B) slide view
(C) slide master
(D) new slide

60. Which of the following effects is a special animation effect where the information fades after it has been presented?

(A) Animation
(B) Dimming
(C) Entrance
(D) Emphasis

IF YOU FINISH BEFORE TIME IS CALLED, CHECK YOUR WORK ON THIS TEST.