

Paper 01

90 minutes

READ THE FOLLOWING DIRECTIONS CAREFULLY.

1. This test consists of 60 items. You will have 90 minutes to answer them.
2. Your answer sheet is on page 52.
3. Each item in this test has four suggested answers lettered (A), (B), (C), (D). Read each item you are about to answer and decide which choice is best.
4. On your answer sheet, find the number that corresponds to your item and shade the space having the same letter as the item you have chosen. Look at the sample item below.

Sample item

Which of the following pair represents system software?

- (A) accounting software and translators
- (B) spreadsheet and utility software
- (C) translators and spreadsheet software
- (D) translators and utility software

Sample Answer



The best answer to this item is "translators and utility software" so answer space (D) has been shaded.

TURN THE PAGE WHEN YOU ARE READY TO BEGIN

1. Problem partitioning is a technique used to _____.

- (A) determine the most efficient solution.
- (B) refine a problem that has two or more parts.
- (C) identify which part of a problem can be solved.
- (D) decompose a problem into its component parts.

2. Which of the following device interfaces integrates the device controller into the disk or CD drive?

- (A) SCSI
- (B) IDE
- (C) SATA
- (D) SICS

3. Unlike disk storage which stores its contents permanently, RAM is _____.

- (A) integrated
- (B) virtual
- (C) volatile
- (D) inverted

4. When using Microsoft PowerPoint, which view is most effective for re-arranging the sequence of a presentation?

- (A) notes
- (B) master
- (C) slide sorter
- (D) slide show

5. Which generation of programming language uses mnemonics?

- (A) 5th
- (B) 4th
- (C) 3rd
- (D) 2nd

6. The _____ representation of the base ten value 19 is 0001 0011.

- (A) ASCII
- (B) BCD
- (C) sign and magnitude
- (D) hexadecimal

7. Which of the following statements about formatting a document into columns is UNTRUE?

- (A) By default, a document in Microsoft Word has one column.
- (B) You can divide a portion of a document into multiple columns.
- (C) A new section is created each time the number of columns in a document is altered.
- (D) A continuous section break allows a new section to continue on a new page.

8. What will be the output of the following algorithm?

```
BEGIN
x = 4
y = 2
x = y
y = x
output y
END
```

- (A) 8
- (B) 6
- (C) 4
- (D) 2

9. When using the Find and Replace feature _____.

- (A) you have the choice of choosing from two Replace with text options.
- (B) the Replace All button replaces all occurrences of the Find What text with the Replace with text.
- (C) clicking the Find Next button instructs word to replace the current text and move on to search for the next item to be replaced.
- (D) the undo button on the standard toolbar will replace the last change only even if the Replace All button was used.

10. The ability of a computer to execute programs on two or more processors simultaneously is called _____.

- (A) multitasking
- (B) multiprocessing
- (C) microprocessing
- (D) multiprogramming

11. A list of marks must be entered into the computer and the average calculated. Which variable is most meaningful in representing the average?

- (A) x
- (B) ave
- (C) average_mark
- (D) avg_mk

12. Which of the following programming steps are in the correct sequence?

- (A) compile, execute
- (B) link, compile
- (C) compile, link
- (D) execute, compile

13. Which operator is used when initializing a constant?

- (A) =
- (B) :
- (C) :=
- (D) =;

14. Which of the following input devices is MOST LIKELY to be used in a bank for cheque processing?

- (A) bar code reader
- (B) joystick
- (C) MICR
- (D) touch terminal

15. A program is to be developed to accept TWO numbers and calculate the sum and average. Each input value and each result should be accessible after the calculations. How many variables are needed?

- (A) 5
- (B) 4
- (C) 3
- (D) 2

16. All of the following are commonly used output devices EXCEPT

- (A) printer
- (B) monitor
- (C) scanner
- (D) speaker

17. Which statement is true of fourth generation languages (4-GLs)?

- (A) Used to develop commercial software
- (B) Executes quicker than 3rd generation
- (C) Do not need interpretation
- (D) Used mainly by scientists

18. The age of a primary school student was correctly calculated based on the date of birth of the student within the school's database. The age turned out to be 59. Which checks could have detected the error during the input phase?

- (A) presence
- (B) random
- (C) type
- (D) consistency

19. Which of the following activities is NOT undertaken during the initial step of the problem solving process?

- (A) problem partitioning
- (B) algorithm development
- (C) problem decomposition
- (D) construct defining diagram

20. All the following services require the Internet EXCEPT _____.

- (A) electronic mail
- (B) FTP
- (C) VoIP
- (D) World Wide Web

21. A _____ is a named location in memory, the value of which usually stays the same for the life of the program.

- (A) constant
- (B) literal
- (C) half-constant
- (D) variable

22. Which of the following devices is MOST likely to have a single read/write head, a buffer and a SCSI interface?

- (A) CD-ROM drive
- (B) flash drive
- (C) hard disk drive
- (D) magnetic tape drive

23. What is the word size of a 2-byte word?

- (A) 4
- (B) 8
- (C) 12
- (D) 16

24. Which of the following measures is a physical access restriction?

- (A) encryption
- (B) firewalls
- (C) virus protection
- (D) biometric systems

25. Visual verification is sometimes used because

- (A) it is often more accurate than double entry verification.
- (B) it is often quicker than double entry verification.
- (C) it is often the only type of verification that is possible.
- (D) it often detects errors not detected by double entry verification.

26. Possibility High School purchased a payroll package and hired a programmer to make changes to its interface. The software may correctly be described as BOTH _____.

- (A) specialized and customized
- (B) specialized and custom-written
- (C) general-purpose and specialized
- (D) general-purpose and custom-written

27. Which feature is NOT an advantage of using databases over normal data files?

- (A) sharing of data among users
- (B) sharing of data among programs
- (C) less duplication of data
- (D) less queries allowed

28. Which is the smallest unit of text that can be created, edited, formatted and printed by a word-processor.

- (A) line
- (B) word
- (C) sentence
- (D) character

29. Which of the following variable names is incorrect and cannot be used in a Pascal program?

- (A) 1stchoice
- (B) Firstchoice
- (C) firstChoice
- (D) FIRSTCHOICE

30. Which of the following languages is a low-level language?

- (A) Pascal
- (B) Assembly
- (C) BASIC
- (D) C

31. Which of the following words correctly describes an algorithm?

- I. precise
- II. ambiguous
- III. terminable
- IV. unambiguous

- (A) I and II
- (B) I, II and III
- (C) I, II and IV
- (D) I, III and IV

32. The Caribbean Examinations Council captures scores from examination papers using a key-to-disk system. Which processing mode is indicated?

- (A) batch
- (B) on-line
- (C) real time
- (D) time-sharing

33. A(n) _____ is a private network created using World Wide Web software.

- (A) blog
- (B) bulletin board
- (C) intranet
- (D) extranet

34. Which statement indicates a characteristic of a spreadsheet package?

- (A) It is specially suited for doing textual documents.
- (B) Does not use pre-defined functions.
- (C) It can only store numerical data.
- (D) It enables one to carry out numerical work easily and flexibly

35. Which of the following items is a feature of external documentation?

- (A) indentation
- (B) installation instructions
- (C) white spaces
- (D) comments

36. If FOUR items of data must be stored on each of 12 entities, how many attributes are needed?

- (A) 4
- (B) 3
- (C) 2
- (D) 1

37. The speed of a dot-matrix printer is measured by the number of _____ that it can print.

- (A) characters per second
- (B) characters per minute
- (C) pages per second
- (D) pages per minute

38. Which data type is MOST appropriate for storing a value representing a cardinal point on a compass?

- (A) character
- (B) integer
- (C) real
- (D) string

39. A defining diagram usually has _____ columns.

- (A) 2
- (B) 3
- (C) 4
- (D) 5

40. In word-processing, what does a wavy red line beneath a word mean?

- (A) The word is possibly misspelled.
- (B) The word may contain a grammatical error.
- (C) The word-processor can suggest an acronym.
- (D) The word is not in the word-processor's dictionary.

41. If a database table is to hold data on 52 students, it must have 52 _____.

- (A) secondary keys.
- (B) composite keys.
- (C) columns.
- (D) tuples.

42. In word-processing, setting tabs, alignment and line spacing is a _____ formatting feature.

- (A) character
- (B) page
- (C) paragraph
- (D) word

43. The Island Traffic Authority in Sangunique is responsible for issuing driving permits. Permits are issued to persons over 17 years of age. What type of checks would ensure that a 15 year old applicant is not issued a permit?

- (A) range check
- (B) data type check
- (C) consistency check
- (D) reasonableness check

44. In spreadsheets, which symbol is used to represent 'powers'?

- (A) *
- (B) /
- (C) ^
- (D) \$

45. What type of error is detected by testing an algorithm?

- (A) logic
- (B) run-time
- (C) syntax
- (D) over-flow

46. Which of the following common word-processing tasks may be accomplished using the drag- and-drop editing?

- (I) selecting text
- (II) copying text
- (III) moving text

- (A) (I) only
- (B) (I) and (II)
- (C) (II) and (III)
- (D) (III) only

47. An algorithm specifies the flow of _____ from one process to another.

- (A) instructions
- (B) outputs
- (C) control
- (D) inputs

48. Which of the following feature is related to internal documentation?

- (A) indentation
- (B) installation instructions
- (C) objectives
- (D) user requirements

49. Which of the following languages is a high-level language?

- (A) Machine Code
- (B) Machine Language
- (C) Assembly
- (D) C

50. A _____ is an input device that converts hard copy source documents to a digital format.

- (A) mouse
- (B) keyboard
- (C) light pen
- (D) scanner

51. _____ means a billion cycles per second.

- (A) Gigahertz
- (B) Megahertz
- (C) Exahertz
- (D) Nanohertz

52. A storage device X is used to store pictures of size ¼ kilobyte. Approximately how many pictures can be stored on X if it has a capacity of 128 MB?

- (A) 50,000
- (B) 500,000
- (C) 5,000,000
- (D) 50,000,000

53. During the preparation of a document, pressing Ctrl+Shift+> repeatedly will _____.

- (A) add tab stops.
- (B) increase font size.
- (C) increase line spacing.
- (D) toggle sentence case.

54. Which of the following statements about wordwrap are UNTRUE?

- (A) It can be turned off from the Tools > Options menu.
- (B) Your printer controls where word wrap occurs for each line in your document.
- (C) Allows user to type words in a paragraph continually without pressing the ENTER key.
- (D) Automatically positions insertion point at the beginning of the next line when the insertion point reaches the right margin.

55. _____ is a primary storage device that may be purchased and installed by a user in his personal computer.

- (A) RAM
- (B) ROM
- (C) PROM
- (D) EPROM

56. _____ is the concurrent execution of two or more related tasks.

- (A) Multitasking
- (B) Multiprocessing
- (C) Microprocessing
- (D) Multiprogramming

57. A computer network that connects branches of a Caribbean-wide chain of furniture stores may be BEST described as a

- (A) local area network
- (B) metropolitan area network
- (C) value added network
- (D) wide area network

58. The Caribbean Central Bank keeps is all their data on a host computer which is kept in an air-conditioned room. Which of the following access restrictions are likely to be MOST effective at keeping unauthorized persons out of the room?

- I. biometric systems
- II. guards
- III. locks
- IV. passwords

- (A) I only
- (B) I and II
- (C) I, II and III
- (D) I, II, III and IV

QUESTIONS 59 AND 60 ARE BASED ON THE FOLLOWING SCENARIO:

	A	B	C
1	20%		
2			
3		35	
4		15	
5		25	
6		45	
7		50	

A formula is required in C3 to compute the 20% of the value of B3. This formula will be copied to the range C4:C7 and is expected to produce correct results?

59. Which of the following formula will result in zero being displayed in cell A3?

- (A) =(B7/2)-B5
- (B) =B7/2-B5
- (C) =B7/(2-B5)
- (D) None of the above

60. What formula should be entered in C3?

- (A) =B3*A1
- (B) =B3*\$A1
- (C) =B3*\$A\$1
- (D) =B3*A\$1

PRACTICE EXAM - PAPER 1: ANSWER SHEET

1.	(A)	(B)	(C)	(D)
2.	(A)	(B)	(C)	(D)
3.	(A)	(B)	(C)	(D)
4.	(A)	(B)	(C)	(D)
5.	(A)	(B)	(C)	(D)
6.	(A)	(B)	(C)	(D)
7.	(A)	(B)	(C)	(D)
8.	(A)	(B)	(C)	(D)
9.	(A)	(B)	(C)	(D)
10.	(A)	(B)	(C)	(D)
11.	(A)	(B)	(C)	(D)
12.	(A)	(B)	(C)	(D)
13.	(A)	(B)	(C)	(D)
14.	(A)	(B)	(C)	(D)
15.	(A)	(B)	(C)	(D)
16.	(A)	(B)	(C)	(D)
17.	(A)	(B)	(C)	(D)
18.	(A)	(B)	(C)	(D)
19.	(A)	(B)	(C)	(D)
20.	(A)	(B)	(C)	(D)

21.	(A)	(B)	(C)	(D)
22.	(A)	(B)	(C)	(D)
23.	(A)	(B)	(C)	(D)
24.	(A)	(B)	(C)	(D)
25.	(A)	(B)	(C)	(D)
26.	(A)	(B)	(C)	(D)
27.	(A)	(B)	(C)	(D)
28.	(A)	(B)	(C)	(D)
29.	(A)	(B)	(C)	(D)
30.	(A)	(B)	(C)	(D)
31.	(A)	(B)	(C)	(D)
32.	(A)	(B)	(C)	(D)
33.	(A)	(B)	(C)	(D)
34.	(A)	(B)	(C)	(D)
35.	(A)	(B)	(C)	(D)
36.	(A)	(B)	(C)	(D)
37.	(A)	(B)	(C)	(D)
38.	(A)	(B)	(C)	(D)
39.	(A)	(B)	(C)	(D)
40.	(A)	(B)	(C)	(D)

41.	(A)	(B)	(C)	(D)
42.	(A)	(B)	(C)	(D)
43.	(A)	(B)	(C)	(D)
44.	(A)	(B)	(C)	(D)
45.	(A)	(B)	(C)	(D)
46.	(A)	(B)	(C)	(D)
47.	(A)	(B)	(C)	(D)
48.	(A)	(B)	(C)	(D)
49.	(A)	(B)	(C)	(D)
50.	(A)	(B)	(C)	(D)
51.	(A)	(B)	(C)	(D)
52.	(A)	(B)	(C)	(D)
53.	(A)	(B)	(C)	(D)
54.	(A)	(B)	(C)	(D)
55.	(A)	(B)	(C)	(D)
56.	(A)	(B)	(C)	(D)
57.	(A)	(B)	(C)	(D)
58.	(A)	(B)	(C)	(D)
59.	(A)	(B)	(C)	(D)
60.	(A)	(B)	(C)	(D)

CHECK YOUR ANSWERS ON PAGE 61