

GENERAL INFORMATION TECHNOLOGY EXAMINATION – 2011

GENERAL INFORMATION TECHNOLOGY – 1

Three hours

Important :

(i) Answer all questions.

(ii) In each of the questions 1 to 40, pick one of the alternatives (1), (2), (3), (4) which is correct or most appropriate.

1. Parakrama receives Rs. 40/- from his father and Rs. 30/- from his mother to purchase a book. The binary equivalent of the total amount he received is
(1) 1000011 (2) 10000100 (3) 1000101 (4) 1000110

2. The main memory of the computer stores the year 2011 in binary form as
(1) 11110011001 (2) 11110011011 (3) 11111011011 (4) 11111111011

3. Which of the following combinations consist of an Input device an Output device and a storage device respectively?

- (1) Keyboard, Scanner, Mouse
(2) Scanner, Mouse, Keyboard
(3) Compact Disk Drive, Keyboard, Flash Memory
(4) Keyboard, Speaker, Compact Disk Drive

4. A Flash Memory Device has a capacity of 4 GB. Which of the following represents the capacity of the flash Memory Device in MB?

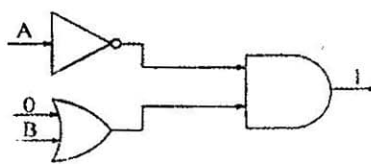
- (1) $\frac{1}{4} \times 10^3$ MB (2) 10^3 MB (3) 4×10^3 MB (4) 4×10^6 MB

5. The third generation of computers are based on the

- (1) Vacuum Tube. (2) Transistor.
(3) Integrated Circuit. (4) Very Large Scale Integrated (VLSI) Circuit.

6. What should be the inputs A and B respectively in the logic circuit to produce 1 as the output?

- (1) 0 and 1
(2) 0 and 0
(3) 1 and 0
(4) 1 and 1



7. A salesman who usually travels by motorcycle needs to use (carry) a computer to record the sales orders he takes from the shops he visits. Which of the following is/are suitable for this purpose?

- A - Desktop Computer
B - Palmtop Computer
C - Laptop Computer

- (1) A only (2) B only (3) Both A and B (4) Both B and C

8. Consider the truth table:

Output of the truth table is produced by

- (1) X AND Y
(2) NOT (X AND Y)
(3) X OR Y
(4) NOT (X OR Y)

Input X	Input Y	Output
0	0	1
0	1	1
1	0	1
1	1	0

9. The Central Processing Unit (CPU) of a computer consists of
 (1) Control Unit and Arithmetic and Logic Unit (ALU).
 (2) Control Unit and Output Unit.
 (3) Main Memory and Auxiliary Storage.
 (4) Main Memory and Output Unit.
10. Which of the following is/are true about Open Source software?
 A - Mac OS is an example for an Open Source software.
 B - The basic code of Open Source software is free to download.
 C - Ubuntu and Open Suse are some examples for Open Source software.
 (1) A only (2) B only (3) A and C only (4) B and C only
11. Which of the following operating systems use the concept of File Allocation Table (FAT)?
 A - MS Windows
 B - Linux
 C - MS DOS
 (1) A only (2) A and B only (3) A and C only (4) all A, B and C
12. Which of the following is a function/are functions of an operating system?
 A - File and folder (directory) management
 B - Controlling input/output devices
 C - Providing access to the Internet
 (1) A only (2) A and B only (3) A and C only (4) all A, B and C
13. Which pair of words given below is appropriate to fill in the blanks of the following statement?
 "The Internet is a(n) _____, whereas the Web is a _____."
 (1) collection of services; network connection
 (2) physical resource; collection of information
 (3) network of computer networks; collection of information
 (4) information resource; physical connection
14. URL is an abbreviation for:
 (1) Unified Record Label (2) Unique Resource Label
 (3) Unified Record Locator (4) Uniform Resource Locator
15. Which of the following are examples of Web browsers?
 A - Internet Explorer, Fedora
 B - Google Chrome, Mozilla Firefox
 C - Mozilla Firefox, Open Office
 (1) A only (2) B only (3) B and C only (4) A and C only
16. What is the domain name part of the following URL?
<http://www.univ.edu/classroom/welcome.htm>
 (1) www.univ.edu (2) classroom
 (3) classroom/welcome.htm (4) welcome.htm
17. Which of the following are network communication devices?
 (1) Network Interface Card, Local Area Network (LAN)
 (2) Router, Wide Area Network (WAN)
 (3) Switch, Router
 (4) Network Interface Card, Wide Area Network (WAN)
18. Consider the following two statements.
 A - Twisted Pair cables are more expensive than Fibre Optic cables.
 B - Fibre Optic cables transmit data at a higher speed than Twisted Pair cables.
 Of the above statements,
 (1) both A and B are true. (2) A is true and B is false.
 (3) A is false and B is true. (4) both A and B are false.
19. Assume that you are planning to network the computer laboratory of your school. What is the most appropriate type of network for this purpose?
 (1) Wide Area Network (WAN) (2) Metropolitan Area Network (MAN)
 (3) Local Area Network (LAN) (4) all of the above

20. Which of the following is an advantage / are advantages of computer networks?
 A - Sharing of data
 B - Sharing of resources such as printers
 C - Improving the security of data storage
 (1) A only (2) B only (3) A and B only (4) all A, B and C
21. The following two Figures (Figure 1 and Figure 2) show similar type of tool bars of two commonly used word processing software:

Figure 1:



Figure 2:



The above tool bars are known as:

- (1) Drawing tool bars. (2) Formatting tool bars.
 (3) Standard tool bars. (4) Menu bars.
22. The purpose of using keyboard shortcuts **Ctrl+X** followed by **Ctrl+V** for a selected text paragraph in a word processed document is to,
 (1) Copy and Paste. (2) Cut and Paste. (3) Copy and Save. (4) Cut and Save.
23. The three icons shown below, labelled as A, B and C can be seen in the window of a certain word processing software. A, B and C icons respectively represent
 (1) Minimize button, Maximize button, Close button.
 (2) Minimize button, Close button, Maximize button.
 (3) Maximize button, Minimize button, Close button.
 (4) Close button, Maximize button, Minimize button.



24. What is the function key used to view a slide show in a presentation software?
 (1) F1 (2) F5 (3) F7 (4) F11
25. What is the function available in spreadsheet software to add all the numbers in a selected range?
 (1) count() (2) add() (3) sum() (4) total()
26. Which of the following are valid cell addresses?
 A - GH5 B - \$G\$H5
 C - GH\$5 D - \$GH5
 (1) A and B only (2) B and C only (3) C and D only (4) A and D only
27. Nimal spends his free time during weekends as follows:
 30% of the time reading books, 50% of the time playing and 20% of the time listening to music.
 What is the most suitable type of chart to represent the above data in a spreadsheet?
 (1) Line chart (2) Bar chart (3) Pie chart (4) Scatter chart
28. Which of the following are examples of database management systems?
 A - OpenOffice Base
 B - Microsoft Access
 C - OpenOffice Impress
 (1) A and B only (2) B and C only (3) A and C only (4) all A, B and C
29. In a database table, rows are identified as records and columns are identified as;
 (1) Labels. (2) Fields. (3) Data types. (4) Cells.
30. Which of the following can be used to locate specific records within tables?
 (1) Forms (2) Queries (3) Lists (4) Charts
31. Which of the following data types is most suitable to hold the National Identity Card number (e.g. 123456780V) in a database table?
 (1) Text (2) Number (3) Currency (4) Date/Time
32. Consider the following statements regarding data access speed:
 A - Cache Memory is faster than Random Access Memory (RAM)
 B - Digital Versatile Disk (DVD) ROM is faster than Cache Memory
 C - Digital Versatile Disk (DVD) ROM is faster than Random Access Memory (RAM)
 D - Random Access Memory (RAM) is faster than Cache Memory
 Which of the above is / are true?
 (1) A only (2) D only (3) A and B only (4) C and D only

- Consider the following flowchart and answer questions 33 to 36.

33. What types of control structures are included in the given flowchart?

- Repetition, Sequence
- Sequence, Selection
- Repetition, Selection
- Repetition, Selection, Sequence

34. Choose the most correct condition that executes the process $\text{Tax} = 0.01 * \text{Pay}$ in the flowchart.

- $\text{Status} < 1$
 - $\text{Status} > 1$
 - $\text{Status} = 1$
- A Only
 - B Only
 - Either A or B
 - B and C only

35. What is the output of the flow chart?

- 100
- 500
- 1000
- 5000

36. If the initialisation value $\text{Status} = 1$ is changed to $\text{Status} = 2$, the output of the flow chart is;

- 5
- 50
- 500
- 5000

37. Consider the following statements:

By using data encryption,

- Sensitive information can be protected when transmitted over computer networks.
- Computers can be protected from virus attacks.
- Data stored in a storage media such as disk or tape can be protected from unauthorized access.

Which of the above is/are true?

- A only
- C only
- A and B only
- A and C only

38. Consider the following statements regarding the use of copyright material.

- It is necessary to request copyright permission from the copyright holder when there is a doubt about the use of copyright materials.
- Fair use of printed material allows the usage without permission of the copyright holder.
- It is not suitable to copy and distribute software without permission from the copyright holder.

Which of the above is/are true?

- A only
- C only
- A and B Only
- all A, B and C

39. Consider the following statements regarding the development of a "library management system" software for a certain school.

- Systems Analyst writes programs required for the system.
- Desktop Publisher collects the requirements of the system.
- Software Engineer writes the program modules required for the system.
- Data Entry Operator enters the data into the new system.

Which of the above statements are true?

- A and D only
- B and C only
- A, C and D only
- B, C and D only

40. A person playing computer games using a new computer complains that the movements in the game are slow. Which of the following should be installed to overcome the problem?

- A sound card with better specifications
- A hard disk with larger capacity
- A dedicated graphics card with better specifications
- A Network Interface Card

