CREST Cyber Olympiad (CCO)
Sample Paper

Pattern and Marking Scheme				
Grade	Topic/Section	No. of Questions	Marks per Question	Total Marks
Grade 7	Computer & IT	40	1	40
	Achiever's Section	10	2	20
Grand Total		50		60

The total duration of the exam is 60 minutes.

Syllabus

Section 1: Fundamentals of Computer, Evolution of Computers, Memory & Storage Devices, Using Windows, MS Word (Links, Mail Merge, Macros, Exploring Styles Group), MS PowerPoint (Working with Slides Master and Themes, Advancing Slides using Hyperlink and Actions, Customizing and Broadcasting Slide Shows), MS Excel (Components of MS Excel Window, Editing and Formatting Cells in a Worksheet, Introduction to Formulas, Sorting and Filtering Data, Macros, Features of Insert and Page Layout Tabs), Internet & Viruses, Networking, Latest Developments in the Field of IT.
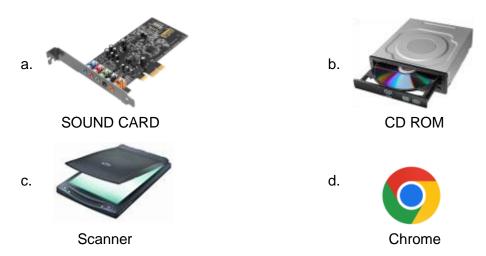
Achievers Section: Higher Order Thinking Questions - Syllabus as per Section 1.
Questions are based on Windows 11 and MS Office 2016.

For more details, visit https://www.crestolympiads.com/cyber-olympiad-cco

1. Fill in the blank:
If you want to translate a digital code to audio signals, your computer needs a _____.

a.

SOUND CARD

b.

CD ROM

c.

Scanner

d.

Chrome

2. Choose the answer that is the most appropriate:
Which one of the following extends a Private network across Public networks?

a. Local Area network
c. Enterprise Private network

b. Virtual Private network
d. Storage Area network

3. Which out of these can be used to Concatenate text in MS Excel?

a. !

Exclamation

b. ~

Tilde

c. ;

Colon

d. &

Ampersand

4. Which function is used in excel to give back a remainder after one number is divided by any divisor?

a. ROUND()
c. FACT()

b. MOD()
d. DIV()

5. Identify the system unit based on the description given below:
A complete electronic circuit with transistors and other electronic components on a small silicon chip.

a. Workstation
b. CPU

c. Magnetic disc
d. Integrated circuit

6. Fill in the blank:
The difference between the memory unit and the storage unit is that the memory unit is _____ whereas the storage unit is _____.

a. temporary; permanent
b. Permanent; temporary

c. slow; fast
d. non-volatile; volatile

7. Which of the following is correct sequence of smallest to largest unit of storage size?

a. Petabyte, Kilobyte, Megabyte, Gigabyte, Terabyte
b. Kilobyte, Megabyte, Terabyte, Petabyte, Gigabyte
c. Megabyte, Terabyte, Gigabyte, Kilobyte, Petabyte
d. Kilobyte, Megabyte, Gigabyte, Terabyte, Petabyte

8. Which of the following general purpose software allows you to do mathematical or financial calculation?

a. Word Processing Software Program
b. Spreadsheet Software Program

c. Presentation Software Program
d. Database Software Program

9. In the split window mode, one title bar looks darker than the other. Which of the following is the correct reason for the same?

a. Darker title bar shows window not in use
b. Darker title bar shows active window
c. Darker title bar shows unavailable window
d. None of the above

10. Which among the following type of software would you most likely use to keep track of a billing account?

a. Web Authoring
b. Electronic Publishing

c. Spreadsheet
d. Word processors

11. Which of the following term represents an active cell in MS Excel?

a. Current Cell
b. Formula Cell

c. Range Cell
d. Cell Address

12. Which of the following is correct regarding TODAY() in an MS Excel sheet?

a. It will enter system time in that cell.
b. It will enter system date and time in that cell.
c. It will enter system date only.
d. It will enter the time at which the current file was opened.

13. What are the two kinds of sound effect files that can be added to the Microsoft PowerPoint Presentation?

a. .wav files and .mid files   b. .wav files and .gif files
c. .wav files and .jpg files   d. .jpg files and .gif files

14. Fill in the blank:
A person who used his or her expertise to gain access to other people's computers to get information illegally or do damage is referred to as a _____.

a. Spammer   b. Hacker
c. Programmer   d. Analyst

15. Which of the following is the special register that holds Machine Instructions?

a. Control unit   b. RAM
c. Control Instruction Register   d. ALU

16. Which of the following storage device is not an Optical Disk Drive?

a. Blu-Ray   b. DVD - ROM
c. BD - ROM   d. USB Drive

17. Fill in the blank:
A device which combines the capability of a personal computer along with the capabilities of a cell phone and is extremely useful for handheld personal computing and communication is called _____.

a. smart phone   b. laptop
c. smart watch   d. fitness band

18. Which of the following actions does the user need to perform in order to customize an MS Word Ribbon?

a. Right Click on the Ribbon and choose 'Customize the ribbon'
b. Double Click on the Ribbon and choose 'Customize the ribbon'
c. Right Click on the Ribbon and choose 'Customize the toolbar'
d. Double Click on the Ribbon and choose 'Customize the toolbar'

19. Which of the following statement is TRUE?

a. We can put watermark on a document in MSWord
b. Hyperlink can provide link to web pages only
c. We can find footnotes in view menu
d. Endnotes appear in insert menu

20. Which of the following "sharing" options is not present in the MS PowerPoint Backstage View?

a. Invite People
b. Email
c. Publish Slides
d. Send via Messenger

21. Fill in the blank:

In MS Excel the current cell in selection is displayed by _____.

a. a dotted box
b. a dotted box with flashing lines
c. a box with thick black lines
d. a box with blue lines

22. Match the following QBASIC programming elements:

Column A		Column B	
a.	Logical	i.	IF
b.	Relational	ii.	*
c.	Arithmetic	iii.	>

a. (a) - (i), (b) - (ii), (c) - (iii)
b. (a) - (i), (b) - (iii), (c) - (ii)
c. (a) - (ii), (b) - (i), (c) - (iii)
d. (a) - (iii), (b) - (ii), (c) - (i)

23. Complete the sentence given below:

In QBASIC the COLOR statement is used to _____.

a. change the background colour of the screen
b. print the colour code of the screen
c. change the colour of the output text being printed
d. assign colour codes to variables

24. Fill in the blank:

In computing, a _____ is a network security system that monitors and controls the incoming and outgoing network traffic based on predetermined security rules.

a. NIC Card
b. Router
c. Firewall
d. Worms Protection

25. Fill in the blank:

The Intelligent Software assistant created by Microsoft for Windows 10 was named as_____.

a. Ok Google
b. Cortona
c. Siri
d. Tumbler

26. Fill in the blank:

In MS PowerPoint the printing option usually used to print more than one slide per page for the purpose of circulation to the audience of the presentation is known as _____.

a. Full Page Slides
b. Outline
c. Notes Page
d. Handouts

27. Match the following gaming platforms with the names of the firms which created them:

Column A		Column B	
a.	Wii	i.	Sony
b.	Xbox 360	ii.	Microsoft
c.	Playstation3	iii.	Nintendo

a. (a) - (i), (b) - (ii), (c) - (iii)
b. (a) - (iii), (b) - (ii), (c) - (i)
c. (a) - (ii), (b) - (iii), (c) - (i)
d. (a) - (iii), (b) - (i), (c) - (ii)

28. Which of the following navigation options should be chosen to access the "Quick Print" feature in MS Word?

a. File > Quick Print
b. Home > Print > Quick Print
c. Quick Access Toolbar > Quick Print
d. Home > Quick Print > Print

29. Through which of the following system component the main components of the computer communicate with each other?

a. Keyboard
b. System Bus
c. Monitor
d. Memory

30. Which of the following file format(s) is/are supported in Windows 11?

a. NTFS
b. BSD
c. EXT
d. All of the above

31. Which of the following services are offered by the company's logo shown below:

a. Online Encyclopedia and Online Dictionary
b. Microblogging and Social Networking
c. Online Storage and Online Tracking
d. Online Banking and Online Backup

32. The "OneDrive" cloud storage service is provided by which of the following firm:

a.
b.
c.
d.

33. Fill in the blank:

Before developing a computer program, you need to develop algorithm. The algorithms are written in _____.

a. Pseudocode
b. C++
c. Java
d. Any of the above

34. Which of the following best describes the term Bandwidth in Networking?

a. Transmission capacity of communication channels
b. Connected Computers in the Network
c. Class of IP used in Network
d. A physical transmission medium

35. What is the shortcut key to display the Open dialog box in MS Word?

a. F12
b. Shift + F12
c. Shift + F7
d. Ctrl + F12

36. Online Pictures let you find and insert images from a variety of online sources. Which among the following steps do you follow to use the Online Pictures Option in MS Word?

a. Insert Tab > Illustrations Group > Online Pictures
b. Insert Tab > Illustrations Group > Pictures
c. Insert Tab > Illustrations Group > Shape
d. Insert Tab > Illustrations Group > SmartArt

37. Which area in an MS Excel window displays data or formulas of an active cell?

a. Title bar
b. Name box
c. Formula bar
d. Quick Access toolbar

38. Charts represent the data graphically. It makes it easy to understand the Numeric data. Under which Tab will you find the chart option in MS Excel?

a. Page Layout
b. Formula
c. Home
d. Insert

39. Fill in the blank:

Special effects used to introduce slides in a Presentation are called _____.

a. Effects
b. Custom animations
c. Transitions
d. Design

40. You use a shortcut key to complete the work quickly with the help of a keyboard. CTRL+F4 key is used for which of the following purpose?

a. Open a file
b. Save a file
c. Close an active tab
d. Print a file

41. Match the following type of computer with their respective use:

	Column A		Column B
i.	Hybrid Computer	a.	Used in traffic-light control systems, weather-forecasting simulators, oil-exploration systems and automatic aircraft landing
ii.	Supercomputers	b.	Used in scientific and industrial applications such as to measure the electrical current, frequency and resistance of a capacitor
iii.	Analog	c.	Used to record raw data and to provide automatic data calculations for mechanical tests
iv.	Digital	d.	Used in hospitals to measure the heartbeat of the patient for DIALYSIS

a. (i) - (a), (ii) - (c), (iii) - (d), (iv) - (b)   b. (i) - (d), (ii) - (a), (iii) - (b), (iv) - (c)

c. (i) - (b), (ii) - (a), (iii) - (d), (iv) - (c)   d. (i) - (c), (ii) - (a), (iii) - (b), (iv) - (d)

42. Identify the term based on the description given below:

1. It is a prepared application that takes advantages of a known weakness.
2. It is an unintended and unpatched flaw in software code that exposes it to potential exploitation by hackers or malicious software code such as viruses, worms, Trojan horses and other forms of malware.
3. It is a piece of software, a chunk of data, or a sequence of commands that takes advantage of a bug or vulnerability to cause unintended or unanticipated behaviour to occur on computer software, hardware, or something electronic.
4. It is a code that takes advantage of a software vulnerability or security flaw.

a. Security exploit   b. Vulnerability scanner

c. Packet sniffer   d. Rootkit

43. Which of the following statement(s) is/are true concerning memory:
Statement 1: Virtual memory is the space on the hard drive where the operating system begins to store data when it becomes memory-bound
Statement 2: Accessing data from RAM is slower than accessing data from virtual memory
Statement 3: When it is using virtual memory, the operating system builds a file called the RAM file
Statement 4: If a computer is memory bound, adding more RAM will not solve the problem

a. Only statement 1 is true   b. Only statements 2 and 4 are true

c. Only statement 3 is true   d. All the 4 statements are true

44. Which of the following is NOT an example of e-mail service provider?
I. Outlook
II. Gmail
III. Yandex

a. Only I

b. All are e-mail service providers

c. Only III

d. I and III

45. Identify the correct storage option with the help of the description given below:
    1. A model of computer data storage in which the digital data is stored in logical pools
    2. The data is stored in a remote database instead of in a computer's hard drive or other local storage devices
    3. The data has to be accessed through the Internet
    4. In the past few years, due to increased and cheaper bandwidth availability, a new type of storage option is being widely used

    a. Remote server

    b. Cloud storage

    c. Virtual Private network (VPN)

    d. Integrated services Digital Network (ISDN)

46. What will be the output of the following QBASIC code:
    FOR I = 1 TO 100
    PRINT "I"
    NEXT I

    a. The number 1 100 times

    b. The numbers 1 to 100

    c. The numbers 1 to 99

    d. The text "I" 100 times

47. Identify the term with the help of the description given below:
    1. It is the psychological manipulation of people into performing actions or divulging confidential information
    2. It is related to information security
    3. This differs from social engineering within the social sciences, which does not concern the divulging of confidential information

    a. Phishing

    b. Financial Fraud

    c. Hypnotism

    d. Social Engineering

48. Touch screen Input devices such as the ones by android phones convert touch gestures into commands. Match the following gestures with the actions executed:

Column A		Column B	
a.	Tap	i.	Zoom in or Zoom Out
b.	Swipe	ii.	Select Or Open something on your devices, like a button or an app
c.	Pinch	iii.	"flip-through" things, like pages on the home screen, photos, or page in an e-book

a. (a) - (iii), (b) - (ii), (c) - (i)

b. (a) - (ii), (b) - (i), (c) - (iii)

c. (a) - (iii), (b) - (ii), (c) - (i)

d. (a) - (ii), (b) - (iii), (c) - (i)

49. MS PowerPoint has 4 slide view commands accessed from the icons shown here. Which of the following is not one of them?

a. Normal View   b. Slide Sorter view

c. Reading View   d. Playing View

50. Match the following shortcut key combinations in Column A with their usage in Column B:

Column A		Column B	
a.	Alt + Ctrl + C	i.	Print Preview View
b.	Ctrl + W	ii.	Search a document
c.	Ctrl + F2	iii.	Create a copyright symbol
d.	Ctrl + F	iv.	Close a document

a. (a) - (iii), (b) - (iv), (c) - (i), (d) - (ii)   b. (a) - (ii), (b) - (iv), (c) - (i), (d) - (iii)

c. (a) - (i), (b) - (iii), (c) - (iv), (d) - (ii)   d. (a) - (iv), (b) - (iii), (c) - (ii), (d) - (i)

Answer Key

1.	a	2.	b	3.	d	4.	b	5.	d	6.	a	7.	d
8.	b	9.	b	10.	c	11.	a	12.	c	13.	a	14.	b
15.	c	16.	d	17.	a	18.	a	19.	a	20.	d	21.	c
22.	b	23.	c	24.	c	25.	b	26.	d	27.	b	28.	c
29.	b	30.	a	31.	b	32.	b	33.	a	34.	a	35.	d
36.	a	37.	c	38.	d	39.	c	40.	c	41.	b	42.	a
43.	b	44.	b	45.	b	46.	d	47.	d	48.	d	49.	d
50.	a												