

**CREST Cyber Olympiad (CCO)****Sample Paper****Pattern and Marking Scheme**

Grade	Topic/Section	No. of Questions	Marks per Question	Total Marks
Grade 8	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

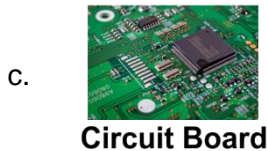
Section 1: Fundamentals of Computers, Internet & Viruses, HTML-[Html, Head, Title, Body (Attributes: Background, Background colour, Text, Link, A link, V link), Font (Attributes: Colour, Size, Face), Centre, BR, HR (Attributes: Size, Width, Align, No shade, Colour), Comment tag (< ! .H6, P, B, I, U, IMG, Html Elements: A, (Attributes: Type, Start), Li], Flash CS6, MS Access, Networking, MS Word (Exploring File tab, Language and Translate options, Tracking features -Comments, Reviewing Pane, Tracking Changes, Comparing, Combining and Protecting documents, Working with References), MS PowerPoint (Exploring File tab and Slide Show tab, Comparing, Combining and Protecting presentations), MS Excel (Exploring File tab, Useful Formulas and Functions - IF, Even, Odd, LCM, GCD, Power, Product, Round, Square, Sum, Min, Max, Average, Count, Upper, Lower And Replace, Cell referencing, Using Defined Names group), Memory & Storage Devices, Basics of Cyber Crimes, Cyber Laws, Operating Systems (Introduction, Features, Types-single user and multiuser), 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.

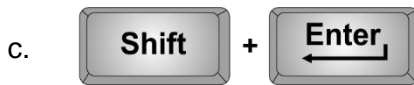
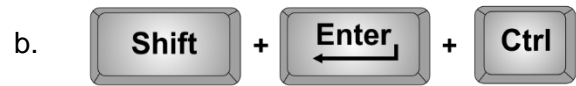
For more details, visit <https://www.crestolympiads.com/cyber-olympiad-cco>

Computers & IT (Each Question is 1 Mark)

1. Out of the following, which one is a thin plate of board which holds all the electronic components?



2. Which of the following keyboard key combination is used to start a new page in MS Word?



3. We use search engines to search any information online. Which out of the following organisation gives an online search engine?



4. Which out of the following allows you to edit the text style, numbers, and pages based on conditions in MS Excel?

- a. Conditional Formatting
c. Conditional Designing

- b. Editing
d. Style Formatting

5. In MS Word 2016, the insert Table Autofit behaviour doesn't have which one of the following?

- a. Fixed Column Width
c. Autofit to Contents

- b. Autofit to Window
d. Autofit to Column

6. Fill in the blank:
When two or more computers have a connection with one another and are eligible to share information, then that is known as a _____.
- a. Network
b. Server
c. Pipeline
d. Router
7. A tag is a markup that lets you define how the content on the Web Page should look. What provides additional information about tags?
- a. Attributes
b. Properties
c. Markup
d. Symbol
8. In HTML you can terminate a line either by pressing enter key or using a tag. Which is the correct HTML tag used for inserting a line break?
- a. < BR >
b. < LB >
c. < BREAK >
d. < NEWLINE >
9. HTML lets you change the colour of text which is by default black. Which syntax is correct to change the entire text colour to red?
- a. < BODY BGCOLOR ="RED" >
b. < BODY TEXT="RED" >
c. < BODY COLOR="RED" >
d. < BODY BCOLOR="RED" >
10. Which one of the following is not the function of operating system?
- a. Resource Management
b. File Management
c. Networking
d. Processor Management
11. Identify the term with the help of the description given below:
1. An attempt to gain unauthorized access to a user's system or information by pretending to be the user
 2. It can be applied to emails, phone calls, and websites, or can be more technical
- a. Spoofing
b. Hacker
c. Cracker
d. None of the above
12. Fill in the blank with the most appropriate option:
_____ are attempts by individuals to obtain confidential information from you by falsifying their identity.
- a. Phishing scams
b. Computer viruses
c. Spyware scams
d. Viruses
13. What is the correct HTML tag for the largest heading?
- a. < H1 >
b. < HEAD = large >
c. < HEADING = large >
d. < H6 >

14. Fill in the blank:

A _____ is a software that manages the time of a microprocessor to ensure that all time-critical events are processed as efficiently as possible. This software allows the system activities to be divided into multiple independent elements called tasks.

- a. Kernel
- b. Shell
- c. Processor
- d. Device Driver

15. Shane is developing a Web page that shows the steps for creating a login id and password. He wants to show these steps in the form of a numbered list. Which of the following tag will Shane use to create a numbered list?

- a. < DL >
- b. < UL >
- c. < OL >
- d. < NL >

16. In the field of computing, what does ENIAC stand for?

- a. Electronic Numerical Integrated advanced computer
- b. Electronic Numerical Integrator and Computer
- c. Electronic Numerals Integration and Computing
- d. Electronic Numbers Integration and Computer

17. In MS Excel, what is the correct way to define the cell reference for range of cells from G2 to M12 within an excel formula?

- a. G2.M12
- b. G2;M12
- c. G2:M12
- d. G2-M12

18. Fill in the blanks:

The category of the operating system that you most likely have running on your PDA computer is a _____ and _____ type of operating system.

- a. Multi-user, single-tasking
- b. Single-user, single-tasking
- c. Single-user, multi-tasking
- d. Multi-user, multi-tasking

19. Fill in the blank:

The microprocessor of a computer cannot operate on any information that is not present in its _____.

- a. secondary storage
- b. main storage
- c. ALU
- d. logic unit

20. Which of the following is not a factor affecting the processing capability or performance of a personal computer?

- a. The clock speed of the microprocessor
- b. The revolutions per minute of the printer disk
- c. The primary storage capacity of the processor
- d. The built-in instruction set available to the microprocessor

21. Which is the largest number in the decimal number system that can be represented with 8 bits?
- a. 256
 - b. 255
 - c. 128
 - d. 64
22. Fill in the blank:
In Flash, the individual timeline elements that make up the animation is known as _____. When the content in them changes, it gives the appearance of an animation.
- a. Snaps
 - b. Wireframes
 - c. Frames
 - d. Windows
23. Fill in the blank:
In Flash, the feature that controls what the users see and when they see is called _____.
- a. Vector
 - b. Animation
 - c. Timeline
 - d. Layer
24. Fill in the blank:
The _____ provides easy access to the most commonly used attributes of the current selection.
- a. Stage
 - b. Property Inspector
 - c. Toolbar
 - d. Library
25. Which of the following is not a valid option for "Wrap Text" in MS Word?
- a. Square
 - b. Tight
 - c. Through
 - d. Circular
26. Which of the following is not a type of motion used for MS PowerPoint animations?
- a. Entrance
 - b. Emphasis
 - c. Exit
 - d. All of the above are valid PowerPoint motion types
27. What are the two types of views in which an MS Access table can be seen?
- a. Design View and Insert View
 - b. Design View and Select View
 - c. Datasheet View and Insert View
 - d. Datasheet View and Design View
28. Fill in the blank:
A _____ is a discussion or informational website published on the World Wide Web consisting of discrete, informal diary-style text entries called "posts".
- a. twitter
 - b. website
 - c. blog
 - d. html

29. Which of the following statement is FALSE?

- a. Non-volatile Memory is typically used for secondary storage
- b. The main memory of the computer system is a type of USB storage
- c. Hard Disk is a form of Non-volatile Memory
- d. DVD is a form of Non-volatile Memory

30. Which among the following HTML tag could not be used to make the text bold?

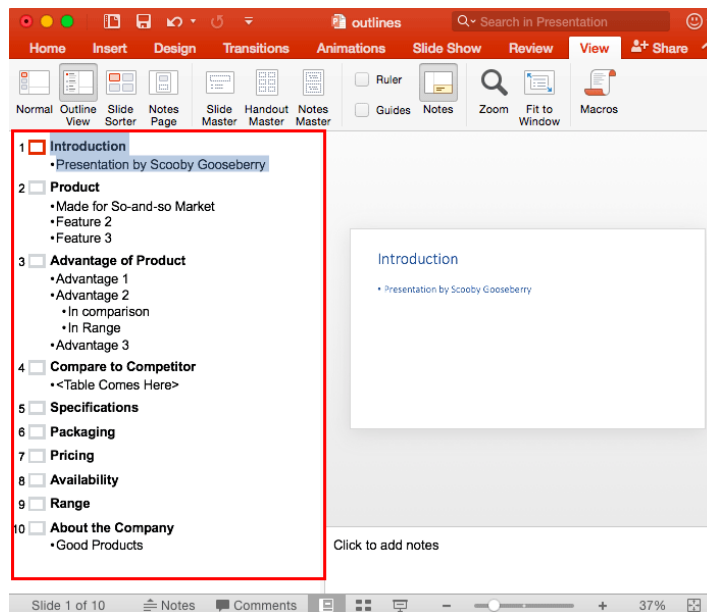
- a. < B >
- b. < BOLD >
- c. < STRONG >
- d. All the above three can be used to make the text bold

31. Document design is a key element of a good MS Word document. The image of the feature shown below is one such tool useful for your document design. Identify the tool from the options given below:



- a. Increase Indent
- b. Bullets
- c. Multilevel List
- d. Line and Paragraph spacing

32. Which of the following views are being used in the image below to display the PowerPoint slide?



- a. Slide Sorter View
- b. Normal View
- c. Reading View
- d. Outline View

33. PowerPoint will mark a misspelled word with a red wavy line as you type in PowerPoint, by default. It can be turned off by using which out of the following options:

- a. Check spelling as you type
- b. Use contextual spelling
- c. Hide spelling errors
- d. Unhide the spelling errors

34. Fill in the blank:

In MS Access, the Graphical Tool used to design Queries and launched using the icon shown here is known as _____ .



- a. Query Builder
- b. SQL Builder
- c. Query Design View
- d. Select View

35. Fill in the blank:

RAID is reliable data storage. RAID technology combines more than one hard disk in an array. The full form of RAID is _____.

- a. Redundant Array of Inexpensive Disk
- b. Redundant Array of Index Disk
- c. Redundant Array of Interactive Disk
- d. Redundant Array of Imperative Disk

36. In MS Word, which of the following is not available in Font spacing?

- a. Normal
- b. Loosely
- c. Condensed
- d. Expanded

37. Which among the following is not a function in MS Excel?

- a. SUM()
- b. AVG()
- c. MAX()
- d. MIN()

38. Slide Show means viewing the slides of the presentation in succession. Which one of the following master views is available in MS PowerPoint?

- a. Slide Master
- b. Handout Master
- c. Notes Master
- d. All of these

39. Which of the following is not a part of Slide Design in PowerPoint?

- a. Themes
- b. Format Background
- c. Slide size
- d. Animation

40. Which of the following is not a browser?



c.



d.



Achiever's Section (Each Question is 2 Marks)

41. Which of the following is/are the correct combination of the advantage of using the respective type of data transmission?

1. **Coaxial Cable:** The faster speed with less attenuation, less impervious to electromagnetic interference (EMI), smaller size and greater information-carrying capacity.
2. **Fiber Optic Cable:** Greater spacing between amplifiers cable shielding reduces noise and crosstalk, which means amplifiers can be spaced farther apart than with twisted-pair.
3. **Radio waves:** They send signals and then they receive them from the reflection and by using these waves people are able to monitor and control certain industrial environments.
4. **Microwaves:** In this transmission rather than utilizing cables or other physical wires, it utilizes electromagnetic waves with small wavelengths.

- a. Only (i) and (iii) are correct
b. Only (i) and (iv) are correct
c. Only (iii) and (iv) are correct
d. Only (ii) and (iii) are correct

42. Identify the MS Excel predefined function with the help of the description given below:

This function counts the cells containing any type of information, including error values and empty text (""). For example, if the range contains a formula that returns an empty string, the function counts that value. But this function will not count empty cells.

- a. COUNTIF()
b. COUNTIFS()
c. COUNT()
d. COUNTA()

43. Identify which of the options below best represents the display on a web page rendered by the HTML code below:

```
< p > List of Authors: < /p >  
< ul >  
< li >Graham Green< /li >  
< li >Thomas Hardy< /li >  
< li >Jeffrey Archer< /li >  
< /ul >
```

- a. List of Authors:
• Graham Green
• Thomas Hardy
• Jeffrey Archer
b. List of Authors:
Graham Green
Thomas Hardy
Jeffrey Archer

- c. List of Authors:
 - * Graham Green
 - * Thomas Hardy
 - * Jeffrey Archer
- d. List of Authors:
 1. Graham Green
 2. Thomas Hardy
 3. Jeffrey Archer

44. Match the following excel function with the operations they perform:

Column A		Column B	
i.	LEN	a.	Converts all characters in the supplied text to lower case
ii.	LEFT	b.	Return the length of a supplied string
iii.	LOWER	c.	Returns a specified number of characters from the start of the supplied text

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

45. Match the following messaging and interaction methods with the names of their popular platforms and service providers from the table below:

Column A		Column B	
a.	Instant Messaging	i.	Facebook, Myspace
b.	Social Media	ii.	Skype, WhatsApp
c.	Email	iii.	Yahoo, Outlook

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

46. Which of the following statements are TRUE regarding the Excel Formula A2 = 100*\$B5?

- a. It is using a relative cell reference for column B and absolute cell reference for row 5
- b. It is using an absolute cell reference for column B and relative cell reference for row 5
- c. It is using an absolute cell reference for column B and for row 5
- d. It is using a relative reference for column B and for row 5

47. For the excel workbook displayed in the diagram below, which of the following is the right formula for cell C6?

	A	B	C
1	Student Name	Score in FA3	Score in FA4
2	A	11	18
3	B	17	18
4	C	19	10
5	Total Score	47	46
6	Average Score	15.67	15.33

