



CREST Cyber Olympiad (CCO)

Sample Paper

Pattern and Marking Scheme

Grade	Topic/Section	No. of Questions	Marks per Question	Total Marks
Grade 9	Computer & IT	40	1	40
	Achiever's Section	10	2	20
Grand Total		50		60

The total duration of the exam is 60 minutes.

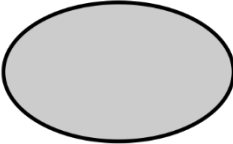
Syllabus

Section 1: Algorithms and Flowcharts in Programming, Visual Basic, Animations, HTML (Links, Anchors and Table tags), MS Word, MS Excel (Formula Auditing, Data Tools, Protecting and Sharing Workbooks/Worksheets, Working with Cell Range), MS PowerPoint, Hardware, Software, Input & Output Devices, Memory & Storage Devices, Flash CS6, Communication Technology (Networking, Internet and Multimedia), Operating Systems (Types-Interactive (GUI based), Real Time and Distributed, Commonly used OS), Windows, 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)

- In MS Word, what will happen if you press the F8 key three times?
 - A word is selected
 - A sentence is selected
 - A paragraph is selected
 - A page is selected
- Which out of these options is designed to create a particular look in an animation?
 - Template
 - Presentation
 - Slide
 - Background
- Complete the sentence given below:
In computer networking, cookies were originally designed for _____.
 - Client side programming
 - Server side programming
 - Both Client side programming and Server side programming
 - Web side programming
- Which one of the following options is not an example of a utility program?
 - Backup software
 - Operating system
 - Antivirus software
 - All of the above are utility programs
- Look at the symbol given below. For which of the following purpose this symbol is used in Flowcharts?
 - Terminal box - Start/End
 - Input/Output
 - Process/Instruction
 - Decision
- In Visual Basic, which of the following control doesn't receive the focus and doesn't have a TabIndex property?
 - Picture Box
 - TabControl Control
 - List Box
 - Label Control
- In Flowchart, diamond shaped symbol is used to represent which of the following options?
 - Decision box
 - Statement box
 - Error box
 - If-statement box
- Which of the following is a program capable of continually replicating with little or no user intervention?

- a. Virus
- b. Trojan Horses
- c. Rootkit
- d. Worms

9. Analyse the images and answer the question given below:
Which symbol is used for output/input?



10. Fill in the blank:

In Visual Basic, we can preserve the value of a local variable by making the variable _____.

- a. private
- b. public
- c. static
- d. implicit

11. In Visual Basic, what do you call the process of hiding variable information in a class that doesn't need to be seen by the rest of the program?

- a. Hiding
- b. Encapsulation
- c. Protecting
- d. Covering

12. Which is the last step that is done to verify whether the goals of the project are met?

- a. Checking
- b. Refining
- c. Scripting
- d. Deciding

13. Which function in Excel is used to determine the day of the week for a date?

- a. DAY()
- b. WEEKDAY()
- c. WEEK()
- d. DAYOFWEEK()

14. In Visual Basic, which one of the following indicates whether a particular condition is on or off?

- a. Check box
- b. List Box
- c. Combo box
- d. Function Box

15. Bluetooth was developed by which of the following firm?





d. **SAMSUNG**

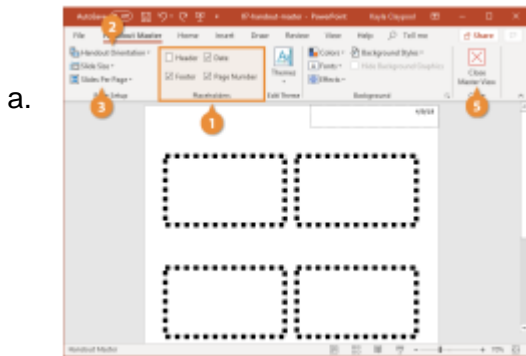
16. What is a character that is raised smaller below the base line called in MS Word?

- a. Outlined
- b. Inlined
- c. Superscript
- d. Subscript

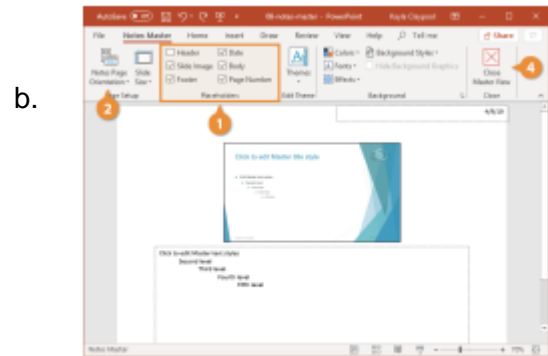
17. Shane is working on excel. She wants to add a pie chart in her sheet. Which of the following steps should she perform to open Chart Wizard?

- a. File > Chart
- b. Insert > Picture > Chart
- c. Insert > Chart
- d. Tools > Chart

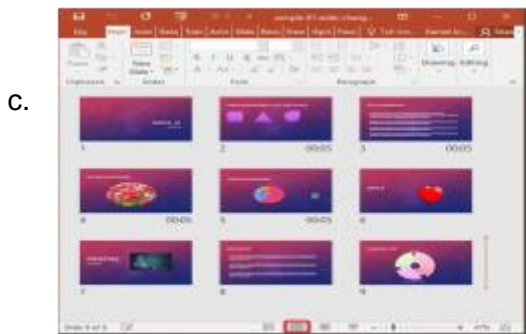
18. To put your logo on the same position on every slide automatically, which one should you use?



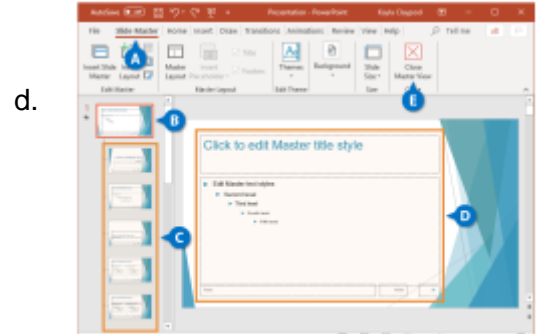
Handout Master



Notes Master



Slide Sorter View



Slide Master

19. Which out of the following you will not find in Paste Special Dialog Box in MS Excel?

- a. Add
- b. Subtract
- c. Divide
- d. SQRT

20. Fill in the blank:

_____ is the viewer of any sort of multimedia project that helps to control what and when the elements within it are delivered.

- a. Multiscreen multimedia
- b. Interactive multimedia
- c. Onscreen multimedia
- d. Portable multimedia

21. In windows 11, which one of the following is the shortcut key to minimize all but not the active window?

- a. Win + Home
- b. Win + End
- c. Wind + D
- d. Ctrl + Home

22. Out of the following, choose the operating system that will not allow you to run more than one program at once:



23. What will the function given below return in MS Excel 2010?

=MATCH(12,{10,13,30,40,60},1)

- a. 0
- b. 1
- c. 2
- d. 3

24. In a worksheet in MS Excel, what is the shortcut key to hide the entire row?

- a. Ctrl + 2
- b. Ctrl + 9
- c. Ctrl + N
- d. Ctrl + -

25. What do we call a network whose elements may be separated by some distance? It usually involves two or more networks and dedicated high-speed telephone lines.

- a. LAN
- b. WAN
- c. URL
- d. Server

26. Fill in the blank:

A _____ is an agreement between the communication parties on how communication is to proceed.

- a. Path
- b. SLA
- c. Bond
- d. Protocol

27. Fill in the blank:

A processor that collects the transmission from several communication media and send them over a single line that operates at a higher capacity is called _____.

- a. multiplexer
- b. bridge
- c. hub
- d. router

28. Which of the following refers to dangerous programs that can be 'caught' on opening E-mail attachments and downloading software from the Internet?

- a. Utility
- b. Virus
- c. Honey Pot
- d. Spam

29. All the following statements are true about variable names except one. Identify it:

- a. The first character of a variable name must be a letter
- b. They may include letters, numbers and underscore (_)
- c. There is no upper limit for the length of a variable name
- d. You cannot use a reserved word

30. Which type of animation is best for developing characters that would showcase depth and realism?

- a. 3D animation
- b. 2D animation
- c. Vector
- d. Alpha

31. Complete the sentence given below:

In an SQL SELECT querying a single table, the asterisk (*) means that _____.

- a. all column of the table are to be returned
- b. all records meeting the full criteria are to be returned
- c. all records with even partial criteria met are to be returned
- d. all records of the table are to be returned

32. Which of the following device takes data sent from one network device and forwards it to all devices on the network regardless of the intended recipient?

- a. DNS server
- b. Switch
- c. Hub
- d. Gateway

33. Which one of the following provides the ability to query information from the database, to insert tuples into the database, delete tuples from the database and modify tuples in the database?

- a. DML (Data Manipulation Language)
- b. DDL (Data Definition Language)
- c. Query
- d. Relational Schema

34. Sajal created a PowerPoint presentation on his Physics project which he wants to present to his class. Sajal wants to add some additional point (not present in the slides) to help him

remember what he wants to say in each slide. Which PowerPoint feature is best suited for this purpose?

- a. Master Slides
- b. Comments
- c. Notes
- d. Track Changes

35. Which of the following statement is TRUE in context with MS Excel 2016?

- a. Excel does not support pie charts.
- b. Once a bar chart is inserted in an Excel sheet, the colour of its bars cannot be changed.
- c. Excel does not allow the editing of chart titles after insertion.
- d. Excel chart type can be modified even after the chart is inserted in excel.

36. Fill in the blank:

Someone who seeks to break the defence of a computer or a computer network for a variety of reasons such as profit, protest, information gathering or recreation is called a _____.

- a. breaker
- b. burglar
- c. intruder
- d. hacker

37. Fill in the blank:

Exchange of text messages and computer files over network either local network as LAN or over internet as WAN is called as _____.

- a. Chatting
- b. FTP
- c. Download
- d. TCP

38. < SCRIPT > ... < /SCRIPT > tag can be placed within which of the following HTML tag?

- a. Header
- b. Body
- c. Header and Body
- d. Footer

39. Which of the following tags are related to Table in HTML?

- a. < table > < row > < column >
- b. < table > < tr > < td >
- c. < table < head > < body >
- d. < table > < header > < footer >

40. Which of the following is correct to change font face in Web Page using HTML?

- a. < font = "font name" > ... < /font >
- b. < font name = "font name" > ...< /font >
- c. < font face = "font name" > ... < /font >
- d. Font Face cannot be changed using HTML

Achiever's Section (Each Question is 2 Marks)

41. Which of the following is FALSE with reference to cell editing in MS Excel?

- a. Edit the cell by double clicking the cell where the content is located
- b. Select the cell and press the F2 function key on the keyboard to edit the content of the cell
- c. Select the cell, click on the formula bar and edit the content
- d. Click the cell and press the F5 function key on the keyboard to edit the content of the cell

42. Observe the flowcharts given below and identify the one that is used to represent the main segments of the program: What is the value of the following MS Excel formula?

=MOD(11,3) & 32/4/2

- a. 2,4
- b. 3,4
- c. 4,5
- d. 3,4

43. Which was the first company that worked to mass-market a microcomputer and change it to a personal computer?



44. Observe the images given below and identify the fastest transmission media among the following:



45. Consider the following code segment:

```
if (Y < 0)
  {X = -X; Y = - Y} ; Z = 0;
while (Y > 0)
```


{Z = Z + X : Y + Y - 1 ; }

Assume that X, Y and Z are inter variables, and that X and Y have be initialised. Which of the following best describes what these code segment does?

- a. Sets Z to be the product X * Y
- b. Sets Z to be the sum X + Y
- c. Sets Z to be the absolute value of Y
- d. Sets to be value of Y

46. Which of the following is the correct way of assigning value "centerscreen" for form's start position property?

- a. Startposition.Form_1 = Formstartposition.CenterScreen
- b. Form_1.Startposition = CenteScreen.FromStartPosition
- c. Form_1.StartPosition = FormStartPosition.CenterScreen
- d. Form_1.StartPosition = FormStartPosition.Location.CenterScreen

47. Match the following MS PowerPoint components in Column A with their description in Column B:

Column A		Column B	
a.	Slide Design	i.	are the dotted-line containers on slide layouts that hold such content as titles, body text, tables, charts, SmartArt graphics, pictures, clip art, videos, and sounds
b.	Auto Content Wizard	ii.	These are the templates for Microsoft Office and PowerPoint that you can use to enhance your presentations
c.	Place Holder	iii.	is a feature available in some programs, usually found on the left side of the window. It displays thumbnails of files or features available in the program
d.	Slide Pane	iv.	It leads you through a series of questions so you can choose the best layout for your presentation

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

48. Match the following type of multimedia in Column A with their description in Column B:

Column A		Column B	
a.	Interactive Multimedia	i.	In this, you can use images to link to your information and also bars and charts to make the viewer of the presentation understand more clearly
b.	On-Screen Multimedia	ii.	It is a portable consumer electronics device capable of storing and playing digital media such as audio, images, and video files
c.	Portable Multimedia	iii.	refers to products and services on digital computer-based systems which respond to the user's actions by presenting content such as text, moving image, animation, video, audio, and video games

