CLASS 10 NCO (COMPUTER)

Total Questions: 35   Time:- 1 hr

Section – 1: Fundamentals of Computer, Number System, Operating System, MS-Word, Networking, MS-PowerPoint, MS-Excel, HTML & CSS, Internet, Database Management System(Functions, Types, MS-Access), Using Windows 10, Programming in Scratch, Programming in Python (2.7.0), Latest Developments in the Field of IT.

Section – 2 : Higher Order Thinking Questions - Syllabus as per Section – 2.

Questions are based on Windows 10 and MS-Office 2016.

1. ISDN is a set of communication standards for simultaneous digital transmission of voice, video, data, and other network services over the traditional circuits of the public switched telephone network.
   What is the full form of ISDN?

   a. Integrated Service Digital Network
   b. Integrated Subscriber Digital Network
   c. Indian Subscriber Digital Network
   d. International Service Digital Network

2. In a MS PowerPoint presentation, the custom animation option can be applied to which of the following?

   a. Font work gallery
   b. Gallery
   c. Texts
   d. All of the above

3. Which command will take you to the first slide of your presentation in MS PowerPoint?

   a. Ctrl + End
   b. Ctrl + Home
   c. Next Slide Button
   d. Page Up

4. What is the disadvantage of wireless LAN?

   a. Interference of transmissions
   b. High rate of error
   c. Slow transmission of data

   a. Font styles   b. Font effects
   c. Word art   d. Text effects

6. To make a number turn into a label in MS Excel, which of the following symbol you should use before the number?

   a. ,   b. ▬

   c. "   d. ═

   d. All of the above

5. Fill in the blank:
   In MS PowerPoint, shimmer, blinking background, and sparkle text are the types of_____.

7. In context to MS Excel, what is the name given to the cells in which comments are put?

   a. Smart tip   b. Web tip
   c. Soft tip   d. Cell tip

8. To depict the logical flow in flowcharts, which one of the following is used?

   a. Connector Circle
   b. Arrow Sign
   c. Parallelogram
   d. Rectangle

9. Fill in the blank:
   Serial ATA (Serial Advanced Technology Attachment or SATA) is a standard for connecting and transferring data from_____to the computer

   a. Network   b. Hard Drives
   c. USB Drives   d. SD Cards

10. Which of the following represents a relationship among a set of values in context to database?

    a. Row   b. Table
    c. Field   d. Column

11. What are the columns in a Microsoft Access table called?

a. Rows
b. Records
c. Fields
d. Columns

12. Which of the following HTML tag(s) is/are used for a multi-line text input control?

a. textml tag
b. text tag
c. textarea tag
d. Both b and c

13. The design of the DBMS depends on its architecture. A DBMS architecture can be seen as either single-tier or multi-tier. In a 3-tier architecture, what do you think are the 3 tiers?

a. Server tier, Application tier, Database tier
b. Presentation tier, Application tier, Database tier
c. Presentation tier, Server tier, Database tier
d. Presentation tier, Application tier, Server tier

14. While working with HTML, is it possible to insert a table within another table?

a. Yes, but there must be exactly 2 rows and 2 columns in first table
b. Yes, table can be inserted into cell of another table
c. Yes, but there must be no border in second table
d. Yes, but formatting of the second table is not possible

15. Which of the following database language allows you to access or maintain data in a database?

a. DCL
b. DML
c. DDL
d. DAL

16. Fill in the blank:
Voice over IP (Voice over Internet Protocol or "VoIP") technology converts voice calls from.

    a. Analog to digital
    b. Digital to analog
    c. Digital to digital
    d. Analog to analog

17. Fill in the blank:
To make the width of a table adjust to the current width of the viewer's browser window, you should specify a table width of_____.

    a. 100%
    b. 640 pixels
    c. 1024 pixels
    d. Any of the above

18. In MS Access, what is the shortcut to open new database?

    a. CTRL + N   b. CTRL + O
    c. ALT + F4   d. CTRL + S

19. Which of the following command centre of access files will appear when you create or open the MS Access database file?

    a. Database Window
    b. Query Window
    c. Design View Window
    d. Switchboard

20. Which one of the following statements is correct?
Statement A: Foreign key fields don't allow duplicate value.

Statement B: In primary key field, you can enter duplicate value.

    a. Statement A is correct
    b. Statement B is correct
    c. Both statements A and B are correct
    d. Neither statement A nor Statement B is correct

21. In MS Access, each field has a data type. What is the use of data type in a field?

    a. To indicate the type of data that can be stored in the field.
    b. To indicate the type of table used.
    c. To indicate from where information is taken.
    d. To indicate the size of data.

22. Which of the following element(s) of an Excel Worksheet can be protected from accidental modification?

    a. Contents
    b. Objects
    c. Scenarios
    d. All of the above

23. From where in MS PowerPoint, can we set the timing for each object?

    a. Slide show, custom transition
    b. Slide show, Slide transition
    c. Slide show, custom animation
    d. View, slide sorter

24. Animation schemes can be applied to which of the following in a MS PowerPoint Presentation?

    a. All slides
    b. Selected slides
    c. Current slide
    d. All of the above

25. Which international community passes judgement on appeals when someone complains that the IESG has failed?

    a. IETF   b. W3C
    c. IAB   d. IANA

stable and secure operation. All the domain extensions are monitored and regulated by ICANN. What is the acronym for ICANN?

a. Internal Corporation for Assigned Numbers and Names
b. Internet Corporation from Assigned Names and Numbers
c. International Corporation from Assigned Numbers and Names
d. Internet Corporation for Assigned Names and Numbers

27. Which category of websites helps people in establishing social relationship and function like an online community of internet users?

26. ICANN is a non-profit organisation responsible for coordinating the maintenance and procedures of several databases related to the namespaces and numerical spaces of the Internet, ensuring the network's

a. E-Shopping
b. Social Networking
c. Social Group
d. E-Reservation

28. In context to MS Access, which special data type has a fixed Field Length of 1 space?
a. VAR
b. BOOLEAN
c. LONG
d. None of the above

29. Fill in the blank:
In HTML,_____attribute of an image tag is used to increase the space at the top of an image.

a. TOP   b. BEGIN
c. VSPACE   d. START

30. Fill in the blank
The tag which is used to create Hyperlinks in a web page is

_____.

a. <HTML>   b. <A>
c. <ALINK>   d. <VLINK>

31. Identify the term with the help of the given description:
Hacking a web server or taking control of another person's website.

a. Web Hiking   b. Web Cracking
c. Web Hijacking   d. None of these

32. Which of these is an advantage of chat rooms?

a. All chat rooms are legitimate
b. You get unbiased opinions
c. You are sure that other people are being honest
d. All chat rooms are very secure

33. Fill in the blanks:
Chat rooms are places, usually, dedicated to a particular topic or shared interest, where you can_____and _____information with your colleagues online and in real time.

a. Save, Retrieve
b. Communicate, Share
c. Share, Save
d. Retrieve, Communicate

34. Complete the following sentence:
A Logical Schema is_____.

a. the entire database
b. a standard way of organizing information into accessible parts
c. how data is actually stored in a disk
d. All of the above

35. Fill in the blanks:
You can insert any image in your webpage by using the_____tag, which is an_____tag. It has no closing tag.

a. < img >, Empty
b. < image >, Detailed
c. < image >, Empty
d. < img >, Detailed

36. Identify the incorrect statement from the following:
    a. An HTML tag is bound by angle brackets. It always begins with a less than (<) sign and ends with a greater than (>) sign.
    b. The ON tag indicates the start of the command and is written before the portion of the text to be formatted.
    c. The OFF tag is the same as the ON tag, but has a backward slash (\) after the command.
    d. Except few tags, most of the tags have their corresponding closing tags.

37. You need to follow certain rules when working with HTML elements, some of them are listed below. Identify the incorrect rule:

    a. Element names are not case sensitive as lowercase and uppercase are treated as the same.
    b. Attribute names are not case sensitive. Their values should always be enclosed in either double quotes ("") or single quotes (' ').
    c. You can use as much space between the tags as you want. The browsers ignore unknown elements and unknown attributes.
    d. Element names can contain spaces and it is not necessary to close a tag.

38. Due to inequality in access to the Internet and ICT, digitalisation is not happening equally all over the world. This is known as Digital Divide. What do you think is a possible strategy in bridging the digital divide?

    a. Social isolation
    b. Digital literacy programs
    c. Access to limited and quality knowledge
    d. Gender inequality

39. Fill in the blanks:
Blockchain is a digitally_____, _____ and _____ ledger that exists across a network and facilitates the process of recording transactions.

a. Distributed, Centralised, Immutable
b. Undistributed, Decentralised, Immutable
c. Distributed, Decentralised, Immutable
d. Distributed, Centralised, Mutable

40. Datafication is a vital trend in Information Technology. It is the modification of human chores and tasks into data-driven technology. Which among the following options is not an example of Datafication?

a. Digitisation   b. Netflix
c. Instagram   d. Banks

Achievers' Section

41. Which of the following statement(s) is/are incorrect in context to system security?
a. In symmetric-key cryptography, the sender and the receiver of a message do not share a single key to encrypt and decrypt the message.
b. Generally, firewalls of organisations ban traffic on port number 23, which is used for an Internet application called Telnet. Telnet allows remote users to login to machines within the organisation.
c. Many packet filtering devices use the deep packet inspection (DPI) to examine packets for their header information as well as content. Though DPI can uncover malware such as worms within packets, data inspection by it has led to issues of privacy and censorship.

d. All are incorrect.

42. Which of the following statements are not true about public-key cryptography?

a. In this method, a message is encrypted with a public key and decrypted with a private key.
b. Both the public and private keys are created as a pair, but the private

key is kept secured so that no unauthorized person could decrypt the message.

c. Public and private keys are created using prime numbers through the RSA encryption technique.

d. If the keys are based on small prime numbers, it is very difficult for crackers to find them within a reasonable period of time.

43. Which of the following statements is not true about a firewall and packet filtering?

a. At a basic level, a firewall is a packet filter device that monitors both outgoing and incoming packets in an organisation.

b. It is a combination of software and hardware that is usually placed inside the router that connects the organisation to the ISP and the Internet.

c. In a firewall, packet-level filtering can be applied to packets of different protocols and services, to packets with specific source and destination addresses, and to packets using specific port numbers.

d. In a firewall, application-level filtering cannot be applied to some applications like email.

44. When trying to access a URL, the following message is displayed on the browser:
Server Error 403.
What could be the reason for the message?

a. The requested HTML file is not available.
b. The path to the interpreter of the script file is invalid.
c. The first line of the output from the script is not a valid HTTP header.
d. The requested HTML file or CGI script has insufficient permission.

45. Fill in the blanks:
(i)   Internet is a Global _____ Platform.
(ii)   Search engines use an extremely efficient software called spider is also known as .
(iii) _____operator broadens the search by including results which contain either 1 keyword or the other keyword or both.
(iv)   _____is a set of rules which determines how the data is transferred over networks.
(v)   _____is simply used for the purpose of file transfer over the Internet.

a. (i) Interface, (ii) Web scraping, (iii)
     AND, (iv) Protocol, (v) SMTP
b. (i) Network, (ii) Web automation, (iii) NAND, (iv) Protocol, (v) HTTP
c. (i) Network, (ii) Web crawler, (iii) OR, (iv) Protocol, (v) FTP
d. (i) Interface, (ii) Web browser, (iii) NOT, (iv) Protocol, (v) TCP/IP

46. Which of the following statements are true?

Statement 2: Graphics and video cannot be added to an HTML document.

Statement 3: The title of a document can contain maximum 64 characters.

Statement 4: Mozilla Firefox is a free web browser.

Statement 5: Windows Internet Explorer is also known as MSIE.

a. Only Statement 3 and Statement 5 are true

b. Statement 2, Statement 3 and Statement 5 are true

c. Statement 1, Statement 3, Statement 4 and Statement 5 are true

d. All the given statements are true

47. Find the errors in the following lines of HTML code and write the

Statement 1: Internet is a network of networks which consists of inter- connected networks.

correct code:

< HTML >
< HEAD >
< TITLE > Cyber Olympiad
< /HEAD >
< /HEAD >
< /TITLE >
< /HTML >

a.
< HTML >
< HEAD >
< TITLE > Cyber Olympiad
< /HEAD >
< /TITLE >
< /HTML >

b.
< HTML >
< HEAD >
< TITLE > Cyber Olympiad
< /TITLE >
< /HEAD >
< /HTML >

c.
< HTML >
< HEAD >
< TITLE > Cyber Olympiad
< /HEAD >
< /HEAD >   < /HTML >

d.

< HTML >

< HEAD >

< TITLE > Cyber Olympiad

< /HEAD >

< /TITLE >

< /HEAD >

< /HTML >

48. Which of the following statements are
true?
Statement 1: Ethical hacking
helps identify security
vulnerabilities.
Statement 2: Using passwords we
can safeguard our computers from
unauthorized access.
Statement 3: Data backup
basically means retrieving back
lost and inaccessible data.
Statement 4: The term distance
learning is being gradually replaced
by virtual School.

a. Only Statement 3 is true
b. Statement 2 and Statement 3
   are true
c. Statement 1, Statement 2
   and Statement 4 are true
d. All the given statements are true

49. A table containing the definitions of
different features exhibited by a
DBMS is given below. Identify the
name of the feature from the
options given below: Data
Summarizing, Data Sorting, Data
Classification, Concurrency Control,
Reduce Data Redundancy

v.	Allows multiple transactions to access and modify shared data at the same time without violating the data integrity.

a.
 i Reduce Data
 · Redundancy Data
 ii. Sorting
 iii Concurrency Control
 ·

	Description
i.	To categorize data on the basis of some conditions.
ii.	Arrangement of data in a proper sequence.
iii.	Helps in controlling duplication of data, which in turn minimizes data inconsistency.
iv.	To get the synopsis of data on the basis of some criteria.

   iv. Data Classification   Bin

   v. Data Summarizing

b.
- i. Data Classification
- ii. Data Sorting
- iii. Reduce Data Redundancy
- iv. Data Summarizing
- v. Concurrency Control

c.
- i. Data Sorting
- ii. Concurrency Control
- iii. Data Classification
- iv. Data Summarizing
- v. Reduce Data Redundancy

d.
- i. Concurrency Control
- ii. Data Classification
- iii. Data Summarizing
- iv. Reduce Data Redundancy
- v. Data Sorting

50. Identify the incorrect statement from the following:

a. Web browser contains the basic software you need in order to find, retriever, view, and send information over the Internet

b. Web browser includes software that lets you send and receive E-mails worldwide instantly

c. You can read messages from newsgroups (or forums) about thousands of topics in which users share information and opinions

d. The most popular browsers are outlook and