

**SAMPLE QUESTION PAPER - 3**  
**Computer Applications (165)**  
**Class IX (2024-25)**

**Time Allowed: 2 hours**

**Maximum Marks: 50**

**General Instructions:**

1. This Question Paper has 5 Sections A-E.
2. All Questions are compulsory. However, internal choices have been provided in some of the questions.
3. Section A has 12 questions carrying 01 mark each.
4. Section B has 7 Short Answer (SA-I) type questions carrying 02 marks each.
5. Section C has 4 Short Answer (SA-II) type questions carrying 03 marks each.
6. Section D has 1 Long Answer (LA) type question carrying 04 marks.
7. Section E has 2 Source based /Case-based /Passage based Questions carrying 04 marks each.

**Section A**

1. Which of the following bars contains the tools for performing various tasks/functions? [1]
  - a) Scroll bar
  - b) Toolbar
  - c) Title bar
  - d) Status bar
  
2. Which of the following software protects your computer system from a virus attack? [1]
  - a) All of these
  - b) Antivirus
  - c) Library programs
  - d) Device drivers
  
3. The electronic equivalent of junk mail is known as [1]
  - a) packets
  - b) cyber fraud
  - c) adware
  - d) spam
  
4. \_\_\_\_\_ stands for Malicious Software is software designed to infiltrate a computer system without the owner's informed consent. [1]

- a) Blog
- b) Attachments
- c) Spam
- d) Malware

5. Which of the following is the first computer virus? [1]

- a) Melissa
- b) Brain
- c) Malware
- d) Elk Cloner

6. The status of your document like current page number and number of pages are given by \_\_\_\_\_ . [1]

- a) Menu bar
- b) Formatting toolbar
- c) Standard toolbar
- d) Status bar

7. \_\_\_\_\_ is a type of software designed to help the user's computer detect viruses and avoid them. [1]

- a) Antivirus
- b) Both Malware and adware
- c) Adware
- d) Malware

8. Which of the following is the extension of a PowerPoint 2010 file? [1]

- a) .ppx
- b) .pptx
- c) .xppt
- d) .ppt

9. IRC was developed by: [1]

- a) Charles Babbage
- b) Tim Berners-Lee
- c) Jarkko Oikarinen
- d) Ray Tomlinson

10. \_\_\_\_\_ are the examples of programming language translators. [1]

- a) Compiler, C++
- b) Assembler, Java
- c) C, C++, Basic
- d) Compiler, interpreter and assembler

11. **Assertion (A):** A DVD is made up of several layers of plastic. [1]  
**Reason (R):** The full form of DVD is Data Video Disc.

- a) Both A and R are true and R is the correct explanation of A.      b) Both A and R are true but R is not the correct explanation of A.
- c) A is true but R is false.      d) A is false but R is true.

12. **Assertion (A):** You can use the PowerPoint Rehearsal feature to rehearse your presentation. [1]

**Reason (R):** Rehearse timing is used to add the time at which the presentation is created.

- a) Both A and R are true and R is the correct explanation of A.      b) Both A and R are true but R is not the correct explanation of A.
- c) A is true but R is false.      d) A is false but R is true.

### Section B

13. Give one difference between primary memory and secondary memory. [2]

14. Is it possible to remove a worksheet? State the process of doing it. [2]

OR

What is a Margin in Word?

15. Define the term **computer ethics**. [2]

16. What is spreadsheet software? [2]

OR

What is a disk storage?

17. For which devices is the Android mainly designed? [2]

18. Define worms. [2]

OR

What are the primary interest of online attackers in spyware?

19. Write any three advantages and disadvantages each of optical fibre cable. [2]

### Section C

20. Compare and contrast the two wireless transmission media; Bluetooth and infrared. [3]
21. Do you think, use of bulleted lists or numbered lists is more appropriate in a Word document? [3]

OR

What are possible interactions used in presentation?

22. How do you copy the contents of the cells using drag and drop method? [3]
23. What are virus and worms? [3]

#### Section D

24. Explain the requirements for Safe e-Commerce transactions. [4]

OR

What are the components of information system?

#### Section E

25. **Read the text carefully and answer the questions:** [4]

Microsoft Word is a word processor, which means that it's designed primarily for text-based documents. These can be business reports, student papers, informal notes from a call or a lecture, or letters to friends and relatives. In Word, you type text and see roughly how it will appear on someone else's computer screen or on paper. You can change the font, colour, size and other style settings for text using Word's built-in options. To style multiple sections of text the same way, such as to consistently style headings in a certain way, you can create styles that group multiple formatting options into one setting. Microsoft Word has been designed for years to maximize compatibility between versions. Typically, versions of Microsoft Word can open files created in previous versions of the software and save files in formats usable by earlier versions. You can also save files in formats such as Rich Text Format, which is used by a variety of competing products.

- (i) How are spelling and grammatical mistakes shown in a Word document?
- (ii) Which group and tab contains the Thesaurus command?
- (iii) What is the keyboard shortcut for subscript and superscript?
- (iv) Which group and tab contains the Symbol command?

26. **Read the text carefully and answer the questions:**

[4]

Response time is the time taken by a system to react to a given input. In a Real-time Operating System (RTOS), the response time is very critical and is fixed. In case of any event, the system has to respond within a fixed duration of the time or else the system might collapse. So we can say that RTOS is time-driven.

Usually in a RTOS, the output of one unit acts as an input for another unit. So delay in receiving output from a unit delays the supply of input to the next unit. The second unit does not respond to the delayed input and so does not give any output for which the third unit might be waiting. So the whole system crashes. The best examples of RTOS are airbags in a car, fire alarm system, aircraft control system. Generally, RTOS are embedded systems meaning that they are a part or a unit of a larger system.

**For example**, temperature control system in ACs and refrigerators, digital watches, MP3 players, in mobile phones etc. Some of the widely used RTOS are LINUX, Windows CE, RT LINUS, OSE, QNX etc.

- (i) Define Real-time Operating Systems.
- (ii) Amoeba is an example of:
- (iii) A thread is a \_\_\_\_\_ process, which is managed by operating system scheduler.
- (iv) Which of the following is like a heart of operating system?

**Solution**  
**SAMPLE QUESTION PAPER - 3**  
**Computer Applications (165)**  
**Class IX (2024-25)**

**Section A**

1.  
**(b) Toolbar**  
**Explanation:**  
Toolbar
2.  
**(b) Antivirus**  
**Explanation:**  
Antivirus
3.  
**(d) spam**  
**Explanation:**  
Spam is an electronic equivalent of junk mail.
4.  
**(d) Malware**  
**Explanation:**  
Malware designed to interrupt ongoing computer operations, collect private information and gain unauthorised access to your system resources.
5.  
**(d) Elk Cloner**  
**Explanation:**  
Elk Cloner is the first computer virus created by Richard Skrenta.
6.  
**(d) Status bar**  
**Explanation:**  
Status bar gives the status of your document like current page number and number of pages.
7. **(a) Antivirus**  
**Explanation:**  
An antivirus is a kind of software that is specially designed to help the user's computer to detect the virus as well as to avoid the harmful effect of them.
8.  
**(d) .ppt**

**Explanation:**

.ppt

9.

(c) Jarkko Oikarinen

**Explanation:**

Jarkko Oikarinen

10.

(d) Compiler, interpreter and assembler

**Explanation:**

Compiler, interpreter and assembler

11.

(c) A is true but R is false.

**Explanation:**

A DVD (Digital Versatile Disk) is made up of several layers of plastic, totalling about 1.2 millimeters thick. Each writable layer of a DVD has many tracks of data.

12.

(c) A is true but R is false.

**Explanation:**

You can use the PowerPoint Rehearsal feature to rehearse your presentation. The Rehearsal feature lets you know how long your presentation takes, and it can even set slide timings so that the slides automatically advance based on the timings you set during the rehearsal.

**Section B**

13. The primary memory is volatile and has limited storage capacity, whereas secondary memory is non-volatile and can store huge amount of data.

14. Yes, it is possible to remove a worksheet. To remove a worksheet right-click on the Sheets tab of the sheet that you want to delete and choose Delete from pop-up menu, or choose Delete Sheet from the pop-up menu of Delete option on cells group under Home tab.

OR

A margin is the space between the text and the edge of your document. By default, a new document's margins are set to Normal, which means it has a one-inch space between the text and each edge.

15. Computer ethics is the branch of practical principles that deals with how computer experts should make decisions about social and professional behaviour. It is a set of moral principles which regulates and governs the use of computing and Internet technology.

16. Spreadsheet software is a software application capable of organizing, storing and analyzing data in tabular form. The application can provide digital simulation of paper

accounting worksheets.

OR

Disk storage is a general category of storage mechanisms where data are recorded by various electronic, magnetic, optical or mechanical changes to the surfaces of one or more rotating disks.

**For example:**

- i. Hard disk
- ii. Floppy disk

- 17. Android is mainly designed for touchscreen mobile devices such as smartphones and tablets.
- 18. Worm is a program which is capable of reproducing and spreading itself to another computer system with the help of the computer network. This type of virus does not cause direct damage to the files and the programs.

OR

Primary interest of online attackers in spyware is using it to steal personal information for financial crimes such as carding and identity theft or to sell that information to someone else who then executes more traditional financial crimes.

19. **Advantages**

- i. They have higher bandwidth so can carry more data quickly.
- ii. Data can be carried over longer distances without loss.
- iii. They are immune to electromagnetic interference.

**Disadvantages**

- i. Their cost is high.
- ii. They are fragile.
- iii. Joining optical cables requires trained labour.

**Section C**

- 20. Bluetooth and infrared both are short-range wireless transmission media. This is the only point at which both these data transmission technologies look similar but there is a lot of difference between the two. Infrared is mostly used in TV remotes and there must be a direct line-of-sight between the transmitter and the receiver while on the other hand Bluetooth uses a radio frequency which allows transmission through walls and other objects.
- 21. The use of bulleted lists or numbered lists is an effective way to outline or list the items in a Word document. By modifying numbered or bulleted lists, you are able to change the way of information that is displayed. Creating an outline list, which can help to organise your document for clear presentations. To customize your eye-catching bullets, Word

provides many different images from which to choose. Also, Word gives you the ways of modifying the format of your numeral list.

OR

Go to previous slide

- i. Go to next slide
- ii. Go to first slide
- iii. Go to last slide
- iv. Go to page or object

22. To copy using drag and drop, select the cell or range of cells that you want to copy and then press Ctrl key and move the mouse to one of the selection's borders (the mouse pointer changes from a white cross to a black cross with small plus sign). Then, simply drag the selection to its new location while you continue to press the Ctrl key.

The original selection remains behind and Excel makes a new copy when you release the mouse button.

23. **Virus:** Viruses are segments of code that performs malicious actions. A computer virus is a self-replicating computer program written to alter the way a computer operates, without the permission or knowledge of the user. Viruses can be intentionally destructive-destroying data.

**Worm:** A worm is a malicious program that replicates constantly, without requiring another program to provide a safe environment for replication. Worms can continue replicating themselves until they completely fill available resources, such as memory, hard drive space, and network bandwidth.

#### Section D

24. **Requirements for Safe e-Commerce transactions:** The following are some of the fundamental requisites that ensure safe electronic transactions and payments:

- i. **Confidentiality:** At the time of buying some objects online, we are generally asked to enter our personal information such as name, delivery address (house address), credit card or debit card details, etc. Such information should be kept confidential and not be accessible by any unauthorised person. It should not be hacked or leaked at the time of transaction or transmission.
- ii. **Integrity:** Information should not be hampered or changed during its transmission over the network. For example, if you are making a payment of ₹2,000 using your credit or debit card, then ₹2,000 should be deducted from your account. This information should not get changed.
- iii. **Encryption:** Information should be encrypted and decrypted only by the authorised user.

- iv. **Availability:** As e-commerce is a crucial branch of ICT, the information required for completing a transaction should be available on time. Delay in the availability of information may incur loss in business.
- v. **Authenticity:** Authenticity is an important requisite of e-commerce. Only authorised persons should be allowed to gain access to information. Otherwise, unauthorised persons may steal and misuse the information.

OR

- i. **Hardware:** It is the physical technology that hosts and executes the software, stores and carries the data, provides interfaces for the entry and removal of information from the system.
- ii. **Data:** It is stored, processed, and transmitted through a computer system must be protected. Data is the most valuable asset of an organization and usually is the main target of intentional attacks.
- iii. **People:** Some people have always been a threat to information security and they are the weakest link in a security chain.
- iv. **Procedures:** Procedures are a set of written instructions for grouping when an unauthorized user obtains an organization's procedures, and poses threat to the integrity of the information.
- v. **Networks:** Information systems in LANs are connected to other networks such as the internet and new security challenges rapidly emerge.

### Section E

#### 25. Read the text carefully and answer the questions:

Microsoft Word is a word processor, which means that it's designed primarily for text-based documents. These can be business reports, student papers, informal notes from a call or a lecture, or letters to friends and relatives. In Word, you type text and see roughly how it will appear on someone else's computer screen or on paper. You can change the font, colour, size and other style settings for text using Word's built-in options. To style multiple sections of text the same way, such as to consistently style headings in a certain way, you can create styles that group multiple formatting options into one setting. Microsoft Word has been designed for years to maximize compatibility between versions. Typically, versions of Microsoft Word can open files created in previous versions of the software and save files in formats usable by earlier versions. You can also save files in formats such as Rich Text Format, which is used by a variety of competing products.

- (i) Spelling mistakes are shown as red wavy underlines and grammatical mistakes are shown using blue wavy underlines.
- (ii) Tab-Review and Group-Proofing

(iii) Superscript: Ctrl, Shift and +

Subscript: Ctrl and =

(iv) Tab: Insert

Group: Symbol

**26. Read the text carefully and answer the questions:**

Response time is the time taken by a system to react to a given input. In a Real-time Operating System (RTOS), the response time is very critical and is fixed. In case of any event, the system has to respond within a fixed duration of the time or else the system might collapse. So we can say that RTOS is time-driven.

Usually in a RTOS, the output of one unit acts as an input for another unit. So delay in receiving output from a unit delays the supply of input to the next unit. The second unit does not respond to the delayed input and so does not give any output for which the third unit might be waiting. So the whole system crashes. The best examples of RTOS are airbags in a car, fire alarm system, aircraft control system.

Generally, RTOS are embedded systems meaning that they are a part or a unit of a larger system.

**For example**, temperature control system in ACs and refrigerators, digital watches, MP3 players, in mobile phones etc. Some of the widely used RTOS are LINUX, Windows CE, RT LINUX, OSE, QNX etc.

(i) In a Real-time Operating System (RTOS), the response time is very critical and is fixed.

In case of any event, the system has to respond within a fixed duration of the time or else the system might collapse. So we can say that RTOS is time-driven.

(ii) Amoeba is an example of Distributed OS.

(iii) light weight

(iv) Kernel is like a heart of operating system which plays a vital role in modern OS.