BLOOM Computer Olympiad (BCO)

Question Paper 2024-25

Class 7

Total Questions: **50+5** (Tie-Breaking Section)

Total Time Allotted : 60 minutes

Total Marks : 60

Instructions

1. There are **50 Multiple Choice Questions** in this booklet having 4 options out of which **ONLY ONE** is correct.

2. There are two sections in the Question Paper; **Section A** having 40 Questions carrying 1 Mark each & **Section B** having 10 Higher Difficulty Order Questions carrying 2 Marks each.

3. All questions are compulsory. There is **NO negative** marking for incorrect answers.

4. Total time allotted to complete the paper is 60 minutes.

5. Please fill in your details in the space provided on this page before attempting the paper.

OMR Sheet Instructions

1. Before starting the paper, fill in all the details in the OMR Sheet.

2. Additional 10 minutes will be provided to fill up the OMR sheet, before the start of the exam.

3. Use HB Pencil to darken the circle of the correct Option in OMR sheet. The correct way to darken the circle in OMR sheet is shown below.

   ● ○ ○ ○

4. Use black or blue ball point pen/HB pencil to fill the information in the OMR sheet. Partially filled OMR sheet will not be checked.

5. Return the OMR sheet to the invigilator after the exam.
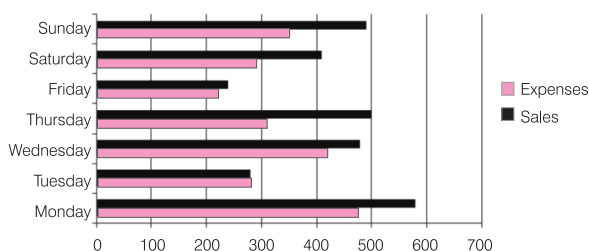
Section A (1 Mark)

1. What do you understand by biometric sensors?

(a) A device that is used in supermarkets for price scan

(b) A device that is used in hospitals for checkup

(c) A device that is used for science experiments

(d) A device that is used for access control and security purpose

2. Identify the given picture:

(a) Line chart

(b) Pie chart

(c) Scatter chart

(d) Bar chart

3. Which one of the following symbols represents the processing in a flowchart?

(a)

(b)

(c)

(d)

4. …………….. is India's first supercomputer developed by C-DAC.

(a) PARAM siddhi AI

(b) PARAM 8000

(c) Pratyush

(d) Sidharth

5. Which of the following keyword is used to start a QBasic program?

(a) START

(b) REM

(c) ACTIVATE

(d) BEGIN

6. 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

7. Which one of the following is not a part of computer monitor display?

(a) Liquid crystal display   (b) Gas Plasma display

(c) Visual graphics array   (d) Light emitting diode

8. Raghav is a network administrator in a reputed Multinational Company. For his work he requires an operating system that provides extra features for networking purpose. Which one of the following operating systems do you suggest him to install in his PC.

(a) Windows 10

(b) Windows NT

(c) Linux

(d) None of these

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

(a)

(b)

(c)

(d)

10. Select the incorrect statement out of the below given statements.
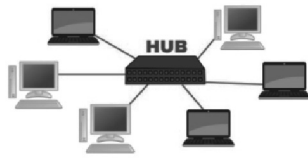
Statement 1 Header and Footer options allow the users to add important information at the top and bottom of the page.

Statement 2 Thesaurus option allows you to find grammatical errors in the selected text.

Statement 3 By using clipart option you can insert pre-made images, illustrations, or graphics into your document.

(a) Statement 1 is incorrect

(b) Statement 1 and Statement 3 both are incorrect

(c) Statement 2 is incorrect

(d) None of the above

11. Identify the network topology:

(a) Ring Topology   (b) Star Topology
(c) Mesh Topology   (d) Bus Topology

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

(a) Blu-Ray   (b) DVD – ROM
(c) CD – ROM   (d) USB Drive

13. For reading magnetic ink on checks in banking sectors, which of the following device is used primarily?

(a) Bar Code Reader   (b) OMR
(c) Optical Scanner   (d) MICR

14. 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

15. You have a worksheet with the following data

	A	B
1	Rahul	80
2	Karan	75
3	Arti	65
4	Vijay	50

How will you calculate the total of the marks in column B?

(a) =total(B1:B4)
(b) =sum(B1:B4)
(c) =average(B1:B4)
(d) =count(B1:B4)

16. What is the difference between transition and animations in MS PowerPoint?

(a) Transitions are applied to objects and animations are applied to slides
(b) Transitions are applied to slides and animations are applied to objects.
(c) Transitions are only for text and animations are only for images.
(d) Transitions are only for images and animations are only for text.

17. How will you declare a variable named "SumTotal" as an integer in QBasic programming?

(a) " DIM SumTotal As INTEGER"
(b) "DECLARE SumTotal as INTEGER"
(c) "VAR SumTotal"
(d) "DEL SUMTotal"

18. Match the following:

Column A	Column B
1 USB	a. Removable Storage
2.CD-ROM	b. Permanent Storage
3.Hard disk	c. Optical Storage
4.RAM	d. Temporary Storage

(a) 1-b,2-d,3-c,4-a
(b) 1-a,2-c,3-b,4-d
(c) 1-b,2-d,3-a,4-c
(d) 1-b,2-c,3-d,4-a

19. Which of the following options is true when multiple user accounts have been created on a computer system?

(a) Each user account has the access to other accounts too.
(b) Each user has administrative rights.
(c) Each user can customize certain account settings.
(d) None of the above

20. Identify the following:

I am used for locating information on the internet.

I match search keywords with indexed pages.

(a) Web browser   (b) Search engine
(c) Website   (d) URL

21. Which of the following terms describes the public location which offers Wi-Fi access to the public using a wireless phone, laptop or other portable device, to access the Internet?

(a) Internet   (b) Wireless connection
(c) Wi-Fi access control (d) Hotspot

22. Select the incorrect statement in context of computer viruses.

Statement 1 A computer virus is a type of malware that can damage or steal information from the computer.
Statement 2 All the computer viruses need to be downloaded from the internet to infect the computer.
Statement 3 Antivirus software is used to protect computers from viruses and other malware.
(a) Statement 1 is incorrect
(b) Statement 1 and 2 both are incorrect
(c) Statement 2 is incorrect
(d) Statement 3 is incorrect

23. 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

24. MS Word allows you to set the password to secure the document. Which of the following menu contains the option to set password?

(a) Insert menu   (b) View menu
(c) Review menu   (d) Home menu

25. 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.

26. What is the use of firewall in a network?

(a) Monitors and controls incoming and outgoing network traffic.

(b) Provide security from the unauthorized access
(c) Both (a) and (b)
(d) None of the above

27. What does QBasic programming language follow as a counterpart, just like English language follows the rules and formats on grammar?

(a) Format   (b) Syntax
(c) Grammar   (d) All of these

28. Which of the following option lets you change the font face, color and background graphics all at once for your slides in a presentation?

(a) Themes   (b) Animations
(c) Transition   (d) Slide Master

29. ……….. refers to the way that sets your page to print the text weather length wise or width wise.

(a) Page Size
(b) Page Layout
(c) Page Margins
(d) Page Orientation

30. Match the following:

Column 1		Column 2
1. Charles Babbage	(a)	Difference engine and analytical engine
2. Howard H. Aiken	(b)	ENIC computer
3. John Mauchly	(c)	Mark 1 computer
4. Herman Hollerith	(d)	Electro-mechanical tabulator

(a) 1-a,2-c,3-b,4-d   (b) 1-c,2-a,3-b,4-d
(c) 1-a,2-c,3-d,4-b   (d) 1-c,2-a,3-b,4-d

31. 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

32. How can you change the font style of text in a cell in Excel 2016?

(a) Use the font group on the Home tab
(b) Right click the cell and select "Format Cells"
(c) Both (a) and (b)
(d) None of the above

33. Choose the answer that is the most appropriate:

Which one of the following extends a Private network across Public networks?
(a) Local Area Network
(b) Virtual Private Network
(c) Enterprise Private Network
(d) Storage Area Network

34. What do you understand by IP address?

(a) A unique identifier for a device on a network
(b) A kind of a network
(c) A unique name for a computer
(d) A kind of a network cable

35. The objects which are used to hold the text in the slide are known as

(a) Text Box   (b) Placeholders
(c) Text holders   (d) Both (b) and (c)

36. Fill in the blank:

A person who used his or her expertise to gain access to the people's computers to get information illegally or do damage is referred to as a _____.
(a) Spammer   (b) Hacker
(c) Programmer   (d) Analyst

37. Which of the following is required to connect to the computer?

(a) A modem or router
(b) A switch
(c) A printer
(d) A network cable

38. Which of the following statements is false about computer viruses?

(a) a virus can delete or corrupt data on a computer
(b) viruses can slow down the performance of a computer

(c) virus can only affect computers that are connected to the internet
(d) some viruses are designed to steal personal information

39. Choose the incorrect statement about computer networks.

(a) In peer to peer networking two devices are directly connected with a dedicated link.
(b) ARPANET is the first computer network.
(c) Client server networking is mainly used in small network.
(d) WAN is a largest network on the basis of geographical area.

40. Shape effect button on the format tab can be used to apply _____.

(a) Special effects in slide show.
(b) 3D rotation to a shape.
(c) Text formatting
(d) Different shapes

Section B   (2 Marks)

41. Which one of the following statements is incorrect about MS excel.

1. We can use mixed referencing only when row and column are fixed.
2. We can open MS excel by simply entering excel in run dialog box.
3. Formula bar displays the content of active cell, we can edit the cell content by using formula bar.

(a) Only 1   (b) Only 2
(c) Only 2 and 3 both   (d) All are true

42. Match the following

A. WLAN	1. Mainly used within a boundary.
B. LAN	2. Largest network on the basis of geographical area.
C. WAN	3. Network used within a city
D. MAN	4. Wireless network mainly used within a LAN.

Choose the correct option given below:
(a) A-1,B-3,C-2,D-4   (b) A-1,B-4,C-2,D-3
(c) A-4,B-1,C-2,D-3   (d) A-2,B-3,C-1,D-4

43. Assertion (A) The first generations of computer used vacuum tubes for circuitry and magnetic drums for memory.

Reason (R) Vacuum tubes were highly efficient and required minimal maintenance.

(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

44. Match the following

A. Line spacing	1.text added at the bottom of the slide
B. Header	2.the space between the lines of text
C. Footer	3.text added at the top of the slide

(a) a->2, b->3, c->1   (b) a->1, b->3, c->2

(c) a->1, b->2, c->3   (d) a->3, b->2, c->1

45.

Shown image belongs to which tab of MS excel.

(a) Function   (b) Data

(c) Formulas   (d) Review

46. Assertion (A) In a computer Network the server provides resources to the client machines

Reason (R) The server is the most powerful machine in the network and controls the network operations

(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

47. Choose the incorrect statement about network Topology.

(a) Network topology is a geometric representation of a network.

(b) Bus topology is mainly used in LAN (local area network).

(c) Network topology increases the cost of network.

(d) In ring topology each node is connected in a circular loop.

Directions (Qus 48-50) Read the following passage and answer the questions that follow

Green Valley School recently upgraded its computer lab with 20 new computers. A week after the installation, several students reported that the computers were running unusually slow. Teachers noticed that some files were missing, and strange pop-up messages appeared frequently.

After a quick check, the school's IT technician discovered that the computers were infected by a virus. The virus had entered the school network through a USB drive used by a student who had downloaded files from an untrusted website at home. The virus quickly spread to all computers in the network, causing many of them to malfunction. As a result, students lost important project files, and the school had to spend several days cleaning and securing their systems.

48. Why did the virus spread to all the computers in the network?

(a) Because of a faulty printer

(b) Because the computers were connected to the same network

(c) Due to an antivirus update

(d) Due to a power surge

49. What could have been done to prevent the virus from spreading in the school's network?

(a) Allow students to use USB drives freely

(b) Keep all computers disconnected from the network

(c) Regularly update antivirus software and restrict access to external devices

(d) Use only wireless internet connections

50. What should the school do to prevent future virus infections?

(a) Stop using computers for any school work

(b) Regularly back up important files and educate students about safe computing practices

(c) Avoid downloading updates for the computers

(d) Increase the number of computers in the lab

Instructions

1. This section consists of 5 questions.
2. The score achieved in this section will not be included in the total marks.
3. If overall marks of two or more students are same, winner will be decided based on the score in this section.
4. Participation in this section is optional and students may choose to attempt it or not.

1. Which of the following statements is/are true about Cortana?

   I. Cortana is a new AI (Artificial Intelligence) based tool.
   II. Using Cortana, the user can search any application or any other topic.
   III. The user can give Cortana both written as well as voice based commands.
   IV. Cortana was launched in Windows 7 OS.

Codes
(a) I and II   (b) I and IV
(c) I, II and III   (d) II and IV

2. Which of the following statements is/are true about Disk Cleanup tool of Windows 10?

   I. It helps your computer to run faster.
   II. It helps to remove unnecessary files from your hard disk to free up disk space.
   III. It removes all the downloaded programs and other files which are not being used for a long time.
   IV. It also empties the Recycle Bin files.

Codes
(a) I and IV
(b) II, III and IV
(c) I and IV
(d) All of the above

3. Rearrange the steps in the chronological order in which they appear in order to apply animation effects to an object of a slide.

   I. Click on the Animations tab.
   II. Select the text or object you want to animate.
   III. Click on the animation to apply it on the selected object.

   IV. Click on the Add Animation drop-down arrow in the Advanced Animation group. A list of options will appear.

Codes
(a) II, I, IV, III   (b) III, II, IV, I
(c) IV, I, II, III   (d) II, III, IV, I

4. Identify the keys to
   • make QBASIC screen smaller
   • shortcut to run a QBASIC program
(a) Alt+Enter, shift+F5
(b) Alt+F9, shift+F5
(c) shift+F9, Alt+Ctrl
(d) Ctrl+Enter, shift+F10

5. Match the following lists.

	List I		List II
A.	Public Cloud	1.	Data and information are accessible by a single organization.
B.	Private Cloud	2.	Data and services are accessible to a group of organizations or communities having common concerns.
C.	Community Cloud	3.	Data and information are easily accessible to general public over Internet.
D.	Hybrid Cloud	4.	It is combination of any two (public, private or community) clouds.

Codes

	A	B	C	D
(a)	2	3	4	1
(b)	3	1	2	4
(c)	1	4	3	2
(d)	1	3	4	2