

Do not start attempting the test paper until you are asked to do so.

ENROLLMENT NUMBER:

STUDENT NAME:

To get Year-wise Performance Comparison Report, Map your Admission No. at [www.silverzone.org/MapMyAdmissionNo](http://www.silverzone.org/MapMyAdmissionNo) within 10 days of this examination.

Class **3**


Maximum Marks : 100  
Duration : 60 Minutes  
Total Questions : 50

Test Paper Type

**BB**

**iiO** **16<sup>th</sup>**  
**INTERNATIONAL**  
**INFORMATICS**  
**OLYMPIAD**  
**2019-2020**

Instructions for the Candidates

1. Write your 12 digit Enrollment Number and your name on top of the Question Paper in the given space.
2. Keep the OMR Sheet in good/neat condition. Do not fold/damage the OMR Sheet.
3. Do not forget to sign the OMR sheet.
4. The Question Paper Booklet consists of 50 questions, divided into three sections.
5. Section-A: Computer Science (30 questions); Section-B: Reasoning and Aptitude (10 questions); Section-C: Scholar's Zone (10 questions).
6. Each question of Section-A carries 2 marks, Section-B carries 1.5 marks and that of Scholar's Zone carries 2.5 marks.
7. All the questions are compulsory and there is no negative marking.
8. Use of calculator or any other devices in the examination is strictly prohibited.
9. Choose only ONE OPTION as an answer.
10. BLUE/BLACK ball pen is preferred to darken the circle, however, in case of non-availability an HB pencil can be used. Mark your choice of answer in the OMR sheet, by darkening a circle as shown below.  

11. Rough work should be done on the blank sheet/space provided in the Question Paper Booklet.

## Section-A (Computer Science)

1. The first generation computer used which of the following for data storage?  
A. Vacuum tubes      B. Magnetic drums  
C. CD                      D. DVD

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2. On the desktop screen, several small pictures are seen. These pictures are called \_\_\_\_\_.  
A. scions                  B. wallpaper  
C. icons                    D. pictures

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3. What does a CPU contain?  
A. A card reader and a printing device  
B. An analytical engine and a control unit  
C. An arithmetic logic unit and a card reader  
D. A control unit and an arithmetic logic unit

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4. Which of the following is the first machine that used punch cards to control a sequence of operations?  
A. Pascaline                B. Leibniz calculator  
C. Jacquard's Loom      D. Analytical engine





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5. Which of the following is also called as the automatic sequence controlled computer?  
A. Analytical engine      B. Difference engine  
C. Mark-1                    D. Pascaline

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6. Which part of the CPU will process logical functions in a computer?  
A. CU                        B. ALU  
C. Memory                  D. Relational Unit

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7. The computer stores information in its \_\_\_\_\_.  
A.       B.   
C.       D. 

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8. What is the extension of a Notepad file?  
A. .rtf                        B. .txt  
C. .doc                        D. .gif

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9. On which of the following do you click to see a list of programs on your computer?  
A. Windows button      B. This PC  
C. Recycle Bin            D. My document

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10. To make a curved line, you must first draw a \_\_\_\_\_.  
A. straight line  
B. line with brushed tool  
C. line with pencil tool  
D. All of these

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11. What are the only two binary digits of a binary system which a computer can read?  
A. 9 & 0                      B. 1 & 2  
C. 0 & 1                      D. 7 & 8

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12. MICR stands for:  
A. Magnetic Ink Character Reader  
B. Magnetic Ink Character Recognition  
C. Magic Ink Card Reader  
D. Magnetic Important Character Recognition

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13. Which of the following generations of computer supported only machine language?  
A. First generation      B. Second generation  
C. Third generation      D. Both A and B

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14. Which one of the following methods helps to identify the type of a saved file?  
A. Its extension            B. Its name  
C. Its size                    D. Its location

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15. Deleted files are stored in:  
A. Recycle Bin  
B. Desktop  
C. Taskbar  
D. My computer

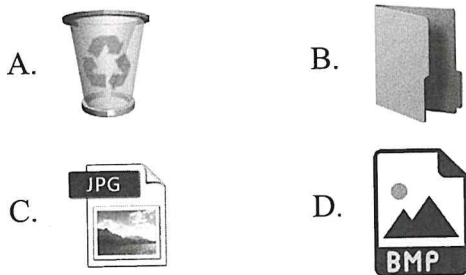
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16. How many scroll bars does MS-Paint have?  
A. 1                            B. 2  
C. 3                            D. 4

17. An integrated circuit is also known as:
- Microelectronic circuit
  - Microchip
  - Chip
  - All of these

18. When we connect a printer to the computer, which of the following is required for proper functioning of it?
- System software
  - Application software
  - Driver software
  - Operating system

19. Identify the icon of folder among the following.



20. Match the following files with their extensions.

Column I	Column II
1. Paint file	i. .docx
2. Text file	ii. .pptx
3. PowerPoint file	iii. .png
4. Document file	iv. .txt

- 1→iv, 2→iii, 3→ii, 4→i
  - 1→iii, 2→iv, 3→ii, 4→i
  - 1→i, 2→ii, 3→iii, 4→iv
  - 1→ii, 2→i, 3→iv, 4→iii
21. Which of the following is not a feature of MS-Paint?
- It can be used to create, edit and print pictures.
  - It can be used to draw pictures, cartoons, maps and subject material.
  - It can be used to write and edit letters and sending e-mails.
  - It can be used to view and edit scanned pictures.

22. A software that helps the computer hardware to work along with other computer softwares is called:
- Desktop
  - Icons
  - Operating System
  - Folder

23. Which of the following is used to reverse the last action performed?
- Copy
  - Paste
  - Undo
  - Redo

24. Which one of the following can be used for creating a document?
- MS-Paint
  - MS-Word
  - Windows
  - MS-Excel

25. Given below are the statements about the MS-Paint. Select the correct statement(s).

- The central white portion is called the drawing board where the pictures can be drawn.
- The Color box indicates the previous foreground and background colours.
- The Ribbon contains different tools that are used for drawing, erasing and colouring.

- 1 and 2
- 1 and 3
- 2 and 3
- 1, 2 and 3

26. Which of the following shows a smaller view of an image in MS-Paint?

- Zoom in
- Zoom out
- Zoom middle
- Undo

27. Which of these is not a software?

- Windows 10
- MS-Office
- Wordpad
- Scanner

28. USB flash memory is available in different storage capacities. This is a/an \_\_\_\_\_ memory.

- optical
- electrolytic
- magnetic
- semiconductor

29. What happens if the monitor of a computer is kept very close to the user?
- Brain is affected.
  - Ears are affected.
  - Eyes are affected.
  - Hands are affected.

30. Which of the following statements is not true?
- You should sit at least 20 inches away from the computer screen.
  - You should place your palm on the monitor while typing.
  - You should clean the keyboard regularly.
  - All of these

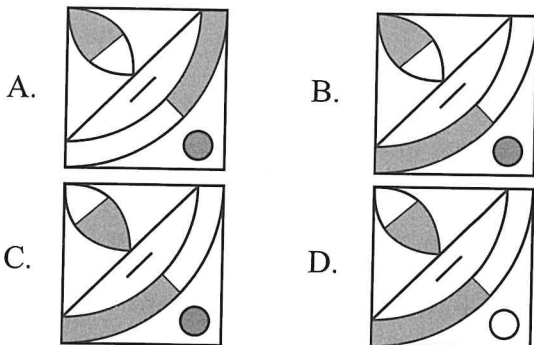
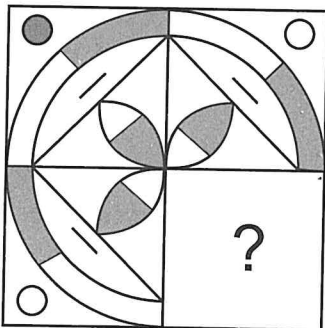
### Section-B (Reasoning and Aptitude)

31. Find the missing numbers to complete the given series.

(7), (10), (15), (18), (23), (?), (?)

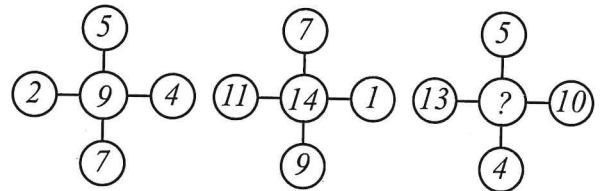
- 24, 31
- 26, 31
- 25, 30
- 26, 29

32. Which of the following options will complete the figure?



33. Introducing a man to her husband a woman said, "His brother's father is the only son of my grandfather." How is the woman related to this man?
- Mother
  - Sister
  - Aunt
  - Daughter

34. Find the missing term.



- 11
- 16
- 25
- 31

35. Find the mirror image.

5F7G

- 
- 
- 
- 

36. Find the next pair of letters in given series.

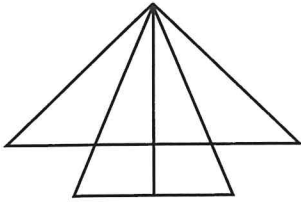
C, P	E, Q	J, R	?
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- K, S
- O, S
- L, T
- M, S

37. Among five friends P, Q, R, S and T, Q is taller than only R. P is shorter than only T. S is shorter than P but taller than Q. Who among them is the shortest?

- T
- Q
- R
- S

38. Find the number of triangles.



- A. 6                      B. 8  
C. 12                     D. 13

39. In a certain language 'CARE' is coded as 'EDVJ', then how is 'FIRE' coded in the same language?

- A. HMOV                  B. ILVJ  
C. IMVK                  D. HLVJ

40. Find the missing term.

7	5	23
11	3	19
9	6	39
5	8	?

- A. 22  
B. 25  
C. 27  
D. 30

Space for Rough Work

Section-C (Scholar's Zone)

41. After clicking on the start window along with the Start menu, a start screen is displayed. What is this start screen called?

- A. Icon
- B. Tile
- C. Wallpaper
- D. Gadgets

42. Which of the following tools of MS-Paint is used to select any square or rectangular part of the picture?

- A. Brush
- B. Line
- C. Select
- D. Free-form select

43. What is the full form of PDF?

- A. Portable Document File
- B. Portable Document Format
- C. Portable Document Form
- D. Portable Document Film

44. Computer is a versatile device because:

- A. it is costly.
- B. it can be used for hundreds of things.
- C. it requires a number of things.
- D. it is in fashion and people are crazy about it.

45. What is a light pen?

- A. Mechanical input device
- B. Optical input device
- C. Electronic input device
- D. Optical output device

46. A touch screen is:

- A. an I/O device.
- B. a device which is not connected to CPU.

- C. a direct access storage device.
- D. All of these

47. A Warm boot occurs when:

- A. the computer is already on and you close your account using the power button on the cabinet.
- B. the computer is already on and you close your account using the log off option in the Shut down button of Start menu on the computer cabinet.
- C. you power on a computer for the first time in a day.
- D. the computer is already on and you restart it using the Restart option in the Shut down button of Start menu.

48. Who invented the Analytical Engine?

- A. Blaise Pascal
- B. Charles Babbage
- C. George Boole
- D. Dr. Herman Hollerith

49. What is the full form of GUI?

- A. Global User Interface
- B. Graphical User Interface
- C. Generally Used Instrument
- D. Globally Used Instrument

50. Select the correct match.

- A. Offices → Employee records
- B. Banks → Teaching
- C. Schools → Tickets
- D. Railways → Playing games

Space for Rough Work