

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

ENROLLMENT NUMBER:

STUDENT NAME:

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Class **5**

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

Test Paper Type

BB

iiO **16th** 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.
 A B C D
11. Rough work should be done on the blank sheet/space provided in the Question Paper Booklet.

Section–A (Computer Science)

1. Which of the following computers are primarily involved in data processing and problem solving for specific programs?
 - A. Compact computers
 - B. Digital computers
 - C. Hybrid computers
 - D. Analog computers
2. Minicomputers are also called _____ computers.
 - A. handheld
 - B. laptop
 - C. mid-range
 - D. smart
3. Given below are few disadvantages of analog computer. Select the correct one.
 1. *Its memory capacity is unlimited.*
 2. *Alphanumeric information can be processed in this system.*
 3. *It gives very little precision.*
 - A. 1 and 2
 - B. 2 and 3
 - C. 1 and 3
 - D. Only 3
4. In which of the following applications are analog computers used?
 - A. Measurement of electric current
 - B. Measurement of frequency
 - C. Measurement of resistance of a capacitor
 - D. All of these
5. In mathematical and scientific research, multimedia is mainly used for _____.
 - A. modeling and simulation
 - B. compiling data and modeling
 - C. simulation and integrating data
 - D. modeling and integrating data
6. For producing maps, which of the following printers/plotters can be used?
 - A. Pen plotters
 - B. Screen printers
 - C. Inkjet printers
 - D. Laser printers
7. If your computer is not permanently connected to the Internet, you need to first _____.
 - A. provide your username
 - B. dial up a connection to your access provider's computer
 - C. provide the password
 - D. All of these
8. Autocorrect was originally designed to replace _____ words as you type.
 - A. short, repetitive
 - B. grammatically incorrect
 - C. misspelled
 - D. All of these
9. Name the feature that display only the data in column(s) according to specified criteria in MS-Excel 2013.
 - A. Formula
 - B. Sorting
 - C. Filtering
 - D. Pivot
10. Soft copy output would be best described as:
 - A. the type of output that is only displayed on the screen.
 - B. the type of output that is in the form of audio.
 - C. the type of output that can be touched.
 - D. an output device that is very soft.
11. Which of the following is an example of official disk?
 - A. Magnetic Disk
 - B. Blue Ray Disk
 - C. Data Bus Disk
 - D. Both A and B
12. In MS-Word 2013, how many font styles will appear in the Font dialog box by default?
 - A. 2
 - B. 4
 - C. 6
 - D. 8
13. Which of the following signs displays formula error in MS-Excel?
 - A. \$
 - B. *
 - C. \
 - D. #

14. Name the topology in which terminals are directly connected in series.

- A. Ring topology B. Star topology
C. Tree topology D. All of these
-

15. Which key combination is used to minimize all the opened windows and displays in the screen?

- A. Alt+M B. Shift+M
C. Windows Key+D D. CTRL+D
-

16. Which of the following is true regarding page orientation of a Word document?

- A. Page orientation can be changed at any time.
B. Page orientation of document is determined by the printer.
C. Page orientation must be set before starting the typing.
D. Page orientation of a document cannot be changed.
-

17. Match the following:

- | | |
|----------|---|
| 1. ISP | a. Hyper Text Markup Language |
| 2. HTTP | b. American Standard Code for Information Interchange |
| 3. ASCII | c. Hyper Text Transfer Protocol |
| 4. HTML | d. Internet Service Provider |

- A. 1→d, 2→c, 3→b, 4→a
B. 1→d, 2→a, 3→b, 4→c
C. 1→a, 2→b, 3→c, 4→d
D. 1→a, 2→d, 3→b, 4→c
-

18. The _____ feature of MS-Excel quickly completes a series of data.

- A. Auto Complete B. Auto Fill
C. Fill Handle D. Sorting
-

19. Which one of the following parts of CPU tower is used for supplying power to the hard disk?

- A. SMPS B. CD drive
C. HDD D. RAM
-

20. How can you remove tab stop markers from ruler?

- A. Double click the tab marker and choose Remove tabs.
B. Drag the tab stop marker out of the ruler.
C. Right click the tab stop marker and choose remove.
D. All of these
-

21. The Windows 10 biometric login feature has been named as:

- A. Windows Hello B. Windows Instant
C. Windows Padlock D. Windows Bio
-

22. You can use the horizontal and vertical scroll bars to:

- A. split a worksheet into two panes.
B. view different rows and columns.
C. edit the contents of a cell.
D. view different worksheets.
-

23. In MS-Excel, to create a formula, you can use:

- A. values but not cell references.
B. cell references but not values.
C. either values or cell references but not both at the same time.
D. both value and cell references.
-

24. How can you specify cell range from A9 to A99 in Excel?

- A. (A9, A99) B. (A9 to A99)
C. (A9 : A99) D. (A9 - A99)
-

25. A website which is used to search other website by typing a keyword is called:

- A. Social network
B. Search engine
C. Router
D. Search page
-

26. Who is the father of Internet?

- A. Vint Cerf B. Tim Berners Lee
C. Charles Babbage D. George Boole
-

27. The standard protocol of the Internet is:
- A. TCP/IP B. C++
C. Java D. HTML
-
28. A _____ shares hardware, software and data among authorized users.
- A. DNS
B. IP
C. CPU
D. Network

29. What is the maximum size of a word document created?
- A. 1 MB B. 32 MB
C. 16MB D. 999KB
-
30. Which of the following retains the information it is storing when the power of the system is turned off?
- A. CPU B. ROM
C. RAM D. DIMM

Section-B (Reasoning and Aptitude)

31. Find the missing term in the given series.
1, 3, 7, 16, 34, 57, ?
- A. 81 B. 96
C. 103 D. 110

32. There is a certain relationship between the pair of terms given on either side of '::'. Identify the relationship of the given pair and find the missing terms in the other pair.
- $K * E : 32 :: P * M : ?$
- A. 45 B. 58
C. 81 D. 100

33. A, B, C, D and E are five steel boxes. E is heavier only than A. C is heavier than A and E but lighter than B which is not the heaviest. Which box is the heaviest among the following ?
- A. A B. B
C. C D. D

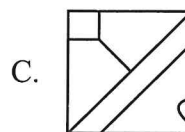
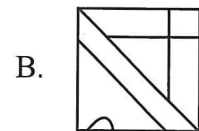
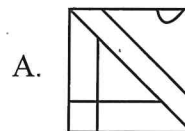
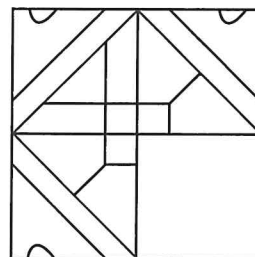
34. Arrange the following letters to form a meaningful word.

<i>A</i>	<i>V</i>	<i>D</i>	<i>E</i>	<i>O</i>	<i>C</i>	<i>T</i>	<i>A</i>
<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>	<i>7</i>	<i>8</i>

- A. 1 4 3 2 7 6 5 8 B. 3 1 4 2 6 8 5 7
C. 3 2 4 1 8 5 7 6 D. 8 3 2 5 6 1 7 4

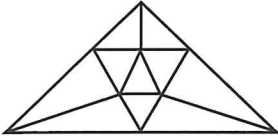
35. Pointing to Rima, Nishant said, "The son of her only brother is the brother of my wife." How is Rima related to Nishant ?
- A. Mother's sister
B. Grandmother
C. Sister-in-law
D. Sister of father-in-law

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



37. In a certain code language, 'PROBLEM' is written as 'MPERLOB'. How will 'NUMBERS' be written in that code?
- A. SNUREMB
 B. SNRUBME
 C. SNRUEMB
 D. SNRUMEB

38. Find the number of triangles.



- A. 12
 B. 15
 C. 18
 D. 21

39. In a class of 180, where girls are twice the number of boys, Rupesh ranked 34th from the top. If there are 18 girls ahead of Rupesh, how many boys are after him in rank?
- A. 44
 B. 52
 C. 60
 D. 75

40. Find the number which will replace the question mark(?).

7	5	23
3	8	13
12	2	10
?	7	47

- A. 5
 B. 7
 C. 9
 D. 11

Space for Rough Work

Section–C (Scholar’s Zone)

41. What is the shortcut key to open print dialog box in MS-Word?
A. Shift + F12 B. Alt + F12
C. Ctrl + F12 D. Ctrl + Shift + F12
42. What are inserted as cross-references in Word?
A. Placeholders B. Bookmarks
C. Objects D. Word fields
43. What happens when you copy a formula?
A. Excel erases the original copy of the formula.
B. Excel edits cell references in the newly copied formula.
C. Excel adjusts absolute cell references.
D. Excel doesn't adjust relative cell references.
44. The concept of electronic cash is to execute payment by:
A. Cheque B. Debit card
C. Credit card D. ATM card
45. Which term describes hardware or software that protects your computer or network from probing or malicious users?
A. Router B. Firewall
C. Protocol D. Spyware
46. Jack is running Windows 10. He displays the Start menu and then presses the Up arrow and Enter. What gets displayed?
A. File Explorer B. All Apps menu
C. Microsoft Edge D. Shutdown menu
47. Which is the primary technical problem associated with hybrid computers?
A. Reduction of Digital-computer noise
B. Reduction of Analog-computer noise
C. Increase of Digital-computer noise
D. Increase of Analog-computer noise
48. Which function key needs to be pressed during reboot to enter in safe mode of a Windows machine?
A. F8 B. F2
C. F1 D. F9
49. What is the quickest way to select an entire worksheet?
A. Choose Edit and Select all from the Menu.
B. Click on the first column, press Ctrl, and then click on the last column.
C. Click on the first column, press Shift, and then click on the last column.
D. Click on the rectangular box on the upper left corner where column headings and row headings meet.
50. A network of computers and other devices that is confined to a relatively small space is called:
A. Wide Area Network
B. Local Area Network
C. Global Network
D. Peer-to-Peer Network

Space for Rough Work