

# International Informatics Olympiad



Organized by:

**Silverzone Foundation**

New Delhi, India

For supremacy in Mathematics  
www.silverzone.org

## CLASS 12<sup>th</sup> SAMPLE QUESTIONS

*The Actual Question Paper Contains 40 Questions. The Duration of the Test Paper is 50 Minutes.*

### SECTION - A

#### Fundamentals of Computer Science

- Which item appears dimly behind the main body text in MS-Word 2013?  
(A) Background (B) Back color  
(C) Watermark (D) Water color
- While sending an e-mail, which of these describes the contents of the message?  
(A) to (B) subject  
(C) contents (D) CC
- The process of erasing a disk is called:

### SECTION - B

#### Computer Science (C++)

- Which of the following operators is used to release the dynamically allocated memory in C++?  
(A) free (B) remove  
(C) delete (D) Both B and C
- Which of the following is used to implement the interfaces in C++?  
(A) Constant variables  
(B) Abstract classes  
(C) Absolute variables  
(D) All of these
- A pointer pointing to a variable that is not initialized is called \_\_\_\_\_.  
(A) void Pointer (B) empty Pointer  
(C) null Pointer (D) wild Pointer

### SECTION - C

#### Informatics Practices (Java)

- Which class among these cannot be instantiated?  
(A) Abstract Class (B) Static Class  
(C) Both A and B (D) Interface

- What is bytecode in Java?  
(A) Code generated by a Java compiler.  
(B) Name of Java source code file.  
(C) Block of code written inside a class.  
(D) Code generated by a Java Virtual Machine.

- Garbage Collection in Java is done by:

- (A) Java Compiler  
(B) System class  
(C) JVM  
(D) Object class

### SECTION - D

#### Python

- How can we include a module in Python?  
(A) load module  
(B) include module  
(C) import module  
(D) require module
- Which of the following is the reserved keyword in python?  
(A) else  
(B) import  
(C) raise  
(D) All of these
- Which is not a valid loop in Python ?  
(A) for loop (B) while loop  
(C) iter loop (D) All of these

### SECTION - E

#### Multimedia & Web Technology

- A \_\_\_\_\_ is a design tool that shows the overall flow of a multimedia presentation.  
(A) flowchart (B) link  
(C) storyboard (D) gantt chart
- Analog-to-analog conversion can be accomplished in:  
(A) one way (B) two ways  
(C) three ways (D) four ways

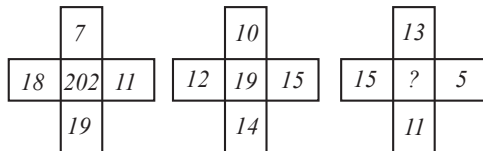
15. A Virtual-Circuit Network (VCN) is normally implemented in the \_\_\_\_\_.

(A) Physical layer (B) Session layer  
(C) Data link layer (D) Network layer

## SECTION - F

### Reasoning and Aptitude

16. Find the missing character from among the given alternatives.



(A) 63 (B) 87  
(C) 113 (D) 125

17. Read the following information carefully and answer the questions given below:

'P # Q' means 'P is the father of Q';

'P + Q' means 'P is the mother of Q';

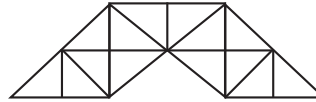
'P - Q' means 'P is the brother of Q';

'P \* Q' means 'P is the sister of Q'.

Which of the following shows that A is the grandmother of E?

(A)  $A * B \# C * D - E$  (B)  $A \# B * C + D - E$   
(C)  $A + B - C * D \# E$  (D)  $A - B + C \# D * E$

18. Find the triangle in the given figure below.



(A) 23 (B) 27  
(C) 31 (D) 29

## ANSWERS

1. C 2. B 3. B 4. C 5. B 6. C 7. A 8. A 9. D 10. C  
11. D 12. C 13. C 14. C 15. C 16. B 17. C 18. D