



SAMPLE PAPER

International Olympiad Foundation

EXCELLENCE IN EDUCATION
International Olympiad Foundation

14+ OLYMPIADS	MCQ FORMAT	0 NEGATIVE MARKS
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OLYMPIAD

Cyber Olympiad

International Olympiad Foundation (IOF) · www.iof.education

CLASS / GRADE	SUBJECT	DURATION	MAX MARKS
Class 8	IFCO	60 Min	50

GENERAL INSTRUCTIONS

- All questions are Multiple Choice Questions (MCQs) with options A, B, C, D, E
- Each correct answer carries 1 mark. No negative marking for wrong answers.
- Rough work should be done separately. Do not write on question paper.

PAPER HIGHLIGHTS

- **Multiple Choice Questions (MCQ)**
Five options per question (A, B, C, D, E). Select the single most appropriate answer.
- **No Negative Marking**
1 mark per correct answer. Zero deductions — attempt every question.
- **Conducted by IOF**
International Olympiad Foundation — fostering excellence among students across India.

SUBJECTS

Cyber	English	Entrepreneurship	Mathematics	Commerce	Economics	GK & Current Affairs	Science	Western Music
Sanskrit	Indian Music	Hindi	Reasoning & Aptitude	Spell Talent				

ALL IOF OLYMPIAD PROGRAMMES

IFCO International Foundation Cyber Olympiad	IFEOL International Foundation English Olympiad	IFEnO International Foundation Entrepreneurship Olympiad	IFMO International Foundation Mathematics Olympiad	ICS Institute of Company Secretaries of India Commerce Olympiad	IFEcO International Foundation Economics Olympiad	IFGCO International Foundation General Knowledge & Current Affairs Olympiad
IFSO International Foundation Science Olympiad	IFWMuO International Foundation Western Music Olympiad	IFSaO International Foundation Sanskrit Olympiad	IFIMuO International Foundation Indian Music Olympiad	IFHO International Foundation Hindi Olympiad	IFRAO International Foundation Reasoning & Aptitude Olympiad	IFSTO International Foundation Spell Talent Olympiad

Q1. If BAT = 1019, then what is the value of HIP ?

[+1]
[-0]

- A. 7815
- B. 8916
- C. 8715
- D. 7816
- E. E. None of the option is correct

Q2. In the artificial language, "sharwor" means "red flower," "worblu" means "flower petal," and "sharworblu" means "red flower petal." What does "wor" mean in this language?

[+1]
[-0]

- A. Red
- B. Flower
- C. Petal
- D. Color
- E. None of the option is correct

Q3. If all Birds can fly and some Penguins cannot fly, which of the following statements must be true?

[+1]
[-0]

- A. All Penguins are Birds
- B. Some Birds cannot fly
- C. Some Penguins are Birds that can fly
- D. All birds that can fly are Penguins
- E. None of the option is correct

Q4. Take the given Statement (s) as true and decide which of the conclusion logically follows from the statements.

[+1]
[-0]

Statements: All engineers are problem-solvers. Some problem-solvers are not creative.

Conclusions: I. All engineers are creative.
II. Some engineers are not creative.

- A. Only conclusion I follows
- B. Only conclusion II follows
- C. Both I and II follows
- D. Neither I nor II follows
- E. None of the option is correct

Q5. Choose the odd one out.

[+1]
[-0]

excite , flourish , prosper , thrive

- A. excite
- B. flourish
- C. prosper
- D. thrive
- E. None of the option is correct

Q6. Select the lettered pair that has the same relationship as the given pair of words.

[+1]
[-0]

RAIN : DRIZZLE

- A. swim : dive
- B. juggle : bounce
- C. walk : run
- D. run : jog
- E. None of the option is correct

Q7. There are five friends, Ankita, Parul, Ashna, Bhanu, Ritika. Ashna is the tallest. Ankita is shorter than Parul but taller than Ritika. Bhanu is shorter than Parul but taller than Ankita. Who is taller than Ritika but shorter than Bhanu?

[+1]
[-0]

- A. Bhanu
- B. Parul
- C. Ankita
- D. Ritika
- E. None of the option is correct

Q8. In a certain code language, 'RAID' is written as 'DIARS' and 'SPOT' is written as 'TOPST'. How will 'MOOT' be written in that language?

[+1]
[-0]

- A. TOOMM
- B. MOOTN
- C. MOOTT
- D. TOOMN
- E. None of the option is correct

Q9. Select the option that represents the correct order of the given words as they would appear in an English dictionary.

[+1]
[-0]

1. Meconium 2. Medication 3. Mediocrity 4. Mechanical 5. Meclizine 6. Mecamylamine

- A. 6, 4, 5, 1, 2, 3
- B. 4, 6, 5, 1, 2, 3
- C. 6, 4, 2, 3, 5, 1
- D. 6, 5, 1, 4, 3, 2
- E. None of the option is correct

Q10. Pointing towards a person in the photograph, Mrs. Rajni said, "He is the brother's son of my husband's father-in-law Yogi." How is the person in the photograph related to Mrs. Rajni?

[+1]
[-0]

- A. Father-in-law
- B. Brother
- C. Son
- D. Father's Brother's Son
- E. None of the option is correct

Q11. In question, find the missing number from the given responses.

[+1]
[-0]

20	25	36
24	30	42
52	40	?

- A. 50
- B. 52
- C. 54
- D. 56
- E. None of the option is correct

Q12. Select the pair that follows the same logic.

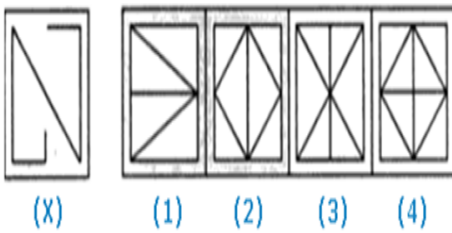
[+1]
[-0]

JHL : MKO :: PNR : SQU

- A. VTS : YWV
- B. ZXC : VUX
- C. WUX : YXB
- D. WTX : ZXA
- E. None of the option is correct

Q13. Find out the alternative figure which contains figure (X) as its part.

[+1]
[-0]

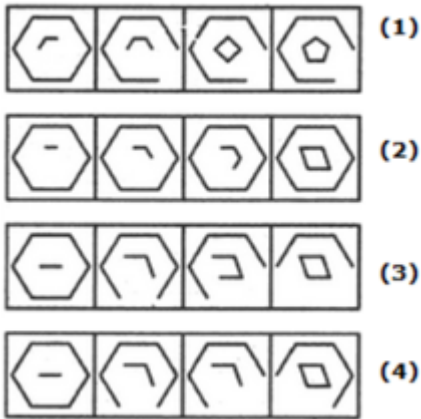


- A. (1)
- B. (2)
- C. (3)
- D. (4)
- E. None of the option is correct

Q14. Choose the set of figures which follows the given rule.

[+1]
[-0]

Rule: Closed figures lose their sides and open figures gain their sides.



- A. 1
- B. 3
- C. 2
- D. 4
- E. None of the option is correct

Q15. Amit started walking positioning his back towards the sun. After some time, he turned left, then turned right and towards the left again. In which direction is he going now?

[+1]
[-0]

- A. North or South
- B. East or West
- C. North or West
- D. South or West
- E. None of the option is correct

Q16. What is a common application where ROM is essential?

[+1]
[-0]

- A. Storing user-created documents and spreadsheets.
- B. Running the operating system (OS) and application programs during normal computer operation.
- C. Providing high-speed cache for the Central Processing Unit (CPU).
- D. Holding the BIOS (Basic Input/Output System) or firmware that boots a computer.
- E. None of the option is correct

Q17. A cybersecurity analyst detects a piece of malware that appears to be a legitimate software utility but, when executed, secretly creates a backdoor for remote access to the system. What type of malware has been identified?

[+1]
[-0]

- A. Virus
- B. Rootkit
- C. Trojan Horse
- D. Worm
- E. None of the option is correct

- Q18.** Which of the following scenarios highlights the need for a strong password policy? [+1]
[-0]
- A. A company wants to encrypt sensitive data stored on its servers.
 - B. A network needs to ensure that only authorized devices can connect to the Wi-Fi.
 - C. An attacker attempts to gain unauthorized access to user accounts by systematically trying many common passwords.
 - D. An organization aims to prevent employees from sharing confidential documents via email.
 - E. None of the option is correct
- Q19.** Which of the following would be considered a 'system software'? [+1]
[-0]
- A. A game
 - B. A video editing suite
 - C. A web browser
 - D. An antivirus program
 - E. None of the option is correct
- Q20.** An operating system's 'kernel' is best described as: [+1]
[-0]
- A. A graphical user interface (GUI) that allows users to interact with the system.
 - B. The main storage area for user files and documents.
 - C. The core component that manages system resources and provides essential services to applications.
 - D. A collection of application programs like web browsers and word processors.
 - E. None of the option is correct
- Q21.** Which type of computer memory is volatile and is used to temporarily store data and instructions that the CPU is actively using, allowing for quick access? [+1]
[-0]
- A. Solid State Drive (SSD)
 - B. Hard Disk Drive (HDD)
 - C. ROM (Read-Only Memory)
 - D. RAM (Random Access Memory)
 - E. None of the option is correct
- Q22.** Which of the following scenarios would most benefit from the use of 'utility software'? [+1]
[-0]
- A. Creating a professional presentation for a business meeting.
 - B. Optimizing a computer's performance by cleaning temporary files and defragmenting the hard drive.
 - C. Playing a high-definition video game.
 - D. Writing and debugging code for a new application.
 - E. None of the option is correct
- Q23.** Which of the following describes the function of a 'router' in a computer network? [+1]
[-0]
- A. To forward data packets between different computer networks (inter-network communication).
 - B. To translate analog signals into digital signals and vice versa for internet connection.
 - C. To provide power over Ethernet (PoE) to network devices.
 - D. To connect multiple devices within a single local area network (LAN) segment.
 - E. None of the option is Correct

- Q24.** Which of the following protocols use client server architecture? [+1]
[-0]
- A. FTP
 - B. HTTP
 - C. SMTP
 - D. All of the Above
 - E. None of the option is correct
- Q25.** The computer-assisted method that helps in the recording and analysis of a hypothetical or an existing system is known as: [+1]
[-0]
- A. Data processing
 - B. Data capture
 - C. Data flow
 - D. Data transmission
 - E. None of the option is correct
- Q26.** In MS Word, you want to ensure that a paragraph stays with the next paragraph on the same page. Which feature should you use? [+1]
[-0]
- A. Keep with Next
 - B. Widow/Orphan Control
 - C. Page Break Before
 - D. Line and Page Breaks > Keep Lines Together
 - E. None of the option is correct
- Q27.** In MS Excel, you want to split a cell containing "John Doe" into two cells with "John" and "Doe". Which feature should you use? [+1]
[-0]
- A. Split Cell
 - B. Merge and Split
 - C. Text to Column
 - D. Text Formatter
 - E. None of the option is correct
- Q28.** A company wants to dispose of old computers containing sensitive customer data. Which method would be the most secure way to ensure the data is irrecoverable? [+1]
[-0]
- A. Deleting all files and emptying the recycle bin.
 - B. Formatting the hard drive.
 - C. Physically destroying the hard drive.
 - D. Reinstalling the operating system.
 - E. None of the option is correct
- Q29.** A smart home device needs to communicate with other devices on the network. Which type of memory is primarily responsible for storing its operating instructions and the software required for its core functionality, even when powered off? [+1]
[-0]
- A. RAM
 - B. ROM
 - C. Cache Memory
 - D. Virtual Memory
 - E. None of the option is correct

- Q30.** A student is trying to access a website but receives an error message "DNS Server Not Responding." What does this primarily suggest about the problem? [+1]
[-0]
- A. The website itself is down.
 - B. The user's internet connection is completely offline.
 - C. The computer cannot translate the website's domain name into an IP address.
 - D. The user's router is faulty..
 - E. None of the option is correct
- Q31.** A user is unable to send emails, but they can browse the internet. Which network protocol is most likely experiencing an issue? [+1]
[-0]
- A. FTP
 - B. SMTP
 - C. DHCP
 - D. HTTP
 - E. None of the option is correct
- Q32.** Which of the following is the most accurate description of an IP address? [+1]
[-0]
- A. A unique physical address assigned to a network interface card.
 - B. A human-readable name for a website.
 - C. A numerical label assigned to each device connected to a computer network.
 - D. A protocol for transferring files over the internet.
 - E. None of the option is correct
- Q33.** A colleague sends you an MS Word document with many track changes and comments. You want to see the final version of the document without any markup but still have the option to review the changes later. Which "Display for Review" option should you select? [+1]
[-0]
- A. No Markup
 - B. All Markup
 - C. Original
 - D. Simple Markup
 - E. None of the option is correct
- Q34.** An internet service provider (ISP) provides you with a modem and a router. What is the primary distinction between these two devices in a typical home network setup? [+1]
[-0]
- A. The modem connects your home network to the internet, while the router creates a local network and distributes the internet connection to multiple devices.
 - B. The modem provides wireless connectivity, while the router provides wired connections.
 - C. The modem encrypts your data, while the router decrypts it.
 - D. They perform the exact same function.
 - E. None of the the option is correct
- Q35.** Which of the following scenarios best illustrates the function of a CPU's cache memory? [+1]
[-0]
- A. Storing a movie file on your hard drive for later viewing.
 - B. The CPU keeping a copy of frequently used program instructions to avoid fetching them from RAM.
 - C. An operating system using part of the hard drive as extra memory.
 - D. A web browser saving images from a website so it loads faster next time.
 - E. None of the above

- Q36.** You are writing a multi-page report in MS Word and want the page numbers in the introductory section (e.g., Table of Contents) to be Roman numerals (i, ii, iii) and the main body of the report to start with Arabic numeral '1'. What must you insert between the two sections? [+1]
[-0]
- A. A Section Break (Next Page)
 - B. A Column Break
 - C. A Page Break
 - D. A Text Wrapping Break
 - E. None of the option is correct
- Q37.** What is the role of a 'device driver' in an operating system? [+1]
[-0]
- A. It is a security feature that scans devices for malware.
 - B. It is the main executable file that launches an application.
 - C. It is a hardware component that connects a device to the motherboard.
 - D. It is a program that allows the operating system to communicate with and control a hardware device.
 - E. None of the option is correct
- Q38.** In MS Excel, what is the key difference between an absolute cell reference (e.g., \$A\$1) and a relative cell reference (e.g., A1)? [+1]
[-0]
- A. Absolute references are used for text, while relative references are for numbers.
 - B. Absolute references cannot be used in formulas.
 - C. Absolute references link to other worksheets, while relative references are for the same sheet.
 - D. An absolute reference stays fixed when a formula is copied, while a relative reference adjusts.
 - E. None of the option is correct
- Q39.** You are giving a presentation using MS PowerPoint. You want a specific slide to be hidden during the main presentation but still be available if you need to show it in response to a question. What should you do? [+1]
[-0]
- A. Move the slide to the very end of the presentation.
 - B. Right-click the slide and select 'Hide Slide'.
 - C. Make all the text and images on the slide invisible.
 - D. Delete the slide and re-insert it if needed.
 - E. None of the option is correct
- Q40.** In MS access , what does the "Hyperlink" Data stores? [+1]
[-0]
- A. Web Address
 - B. Path of a File
 - C. email Address
 - D. All of Above
 - E. None of the option is correct

- Q41.** You are creating a spreadsheet in MS Excel to track your monthly expenses. You want to highlight all expenses that are greater than \$50 in red. Which feature would you use? [+1]
[-0]
- A. AutoSum
 - B. Sort & Filter
 - C. Conditional Formatting
 - D. Validation
 - E. None of the option is correct
- Q42.** Which of the following is the latest version of Bluetooth? [+1]
[-0]
- A. Bluetooth v6.0
 - B. Bluetooth v7.0
 - C. Bluetooth v5.0
 - D. Bluetooth v8.0
 - E. None of the option is correct
- Q43.** Who is known as the father of computer security? [+1]
[-0]
- A. William Shatner
 - B. August Kerchkoffs
 - C. Bob Robert
 - D. Wil Wheaton
 - E. None of the option is correct
- Q44.** The development of cloud computing revolutionized IT by: [+1]
[-0]
- A. Requiring all data to be stored locally on individual devices.
 - B. Making internet access slower and less reliable.
 - C. Enabling on-demand access to computing resources (servers, storage, applications) over the Internet.
 - D. Increasing the need for businesses to own and maintain their own physical servers.
 - E. None of the option is correct
- Q45.** What was the significance of the invention of ENIAC (Electronic Numerical Integrator and Computer)? [+1]
[-0]
- A. It ran on a graphical user interface.
 - B. It was the first general-purpose electronic digital computer.
 - C. It was the first commercially available computer.
 - D. It introduced the concept of the microprocessor.
 - E. None of the option is correct
- Q46.** The invention of 'cookies' in Web Browser was an innovation that primarily enabled: [+1]
[-0]
- A. Websites to remember user preferences, login states, and track Browse activity.
 - B. Real-time video streaming.
 - C. Secure encryption of all website data.
 - D. Faster internet download speeds.
 - E. None of the option is correct

- Q47.** The emergence of 'Internet of Things' (IoT) devices represents an innovation focusing on: [+1]
[-0]
- A. Developing faster and more powerful supercomputers.
 - B. Connecting everyday physical objects to the internet, allowing them to collect and exchange data.
 - C. Improving the resolution of computer monitors.
 - D. Creating more efficient ways to print documents.
 - E. None of the option is correct
- Q48.** What is the name of Google's parent company, formed in 2015? [+1]
[-0]
- A. The Google Group
 - B. Alphabet Inc.
 - C. Meta
 - D. Google LLC
 - E. None of the option is correct
- Q49.** What is the primary function of 'hashtags' on social media platforms? [+1]
[-0]
- A. To mark a post as private
 - B. To add special effects to photos
 - C. To send a direct message to another user
 - D. To categorize content and make it searchable
 - E. None of the option is correct
- Q50.** To create a user-friendly interface for entering new records into a table, which Access object would you use? [+1]
[-0]
- A. Form
 - B. Table (Datasheet View)
 - C. Macro
 - D. Report
 - E. None of the options is correct

CLASS / GRADE
Class 8SUBJECT
IFCOTOTAL QUESTIONS
50MAX MARKS
50

ANSWER SHEET — 50 QUESTIONS

Q#	ANS	Q#	ANS	Q#	ANS	Q#	ANS	Q#	ANS
01	A	11	C	21	D	31	B	41	C
02	B	12	A	22	B	32	C	42	A
03	C	13	C	23	A	33	A	43	B
04	B	14	B	24	D	34	A	44	C
05	A	15	A	25	A	35	B	45	B
06	D	16	D	26	A	36	A	46	A
07	C	17	C	27	C	37	D	47	B
08	D	18	C	28	C	38	D	48	B
09	A	19	D	29	B	39	B	49	D
10	D	20	C	30	C	40	D	50	A

◆ ALL IOF OLYMPIAD PROGRAMMES ◆

