



SAMPLE PAPER

International Olympiad Foundation

EXCELLENCE IN EDUCATION

International Olympiad Foundation

14+

OLYMPIADS

MCQ

FORMAT

0

NEGATIVE MARKS

OLYMPIAD

Cyber Olympiad

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

CLASS / GRADE

Class 7

SUBJECT

IFCO

DURATION

60 Min

MAX MARKS

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. Choose the correct option to continue the series.

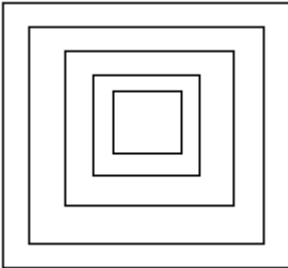
[+1]
[-0]

2 , 5 , 11 , 23 , ___?___

- A. 44
- B. 46
- C. 47
- D. 48
- E. None of the option is correct

Q2. A figure consists of nested squares, with each square having a side length 2 units less than the previous one. If the largest square has a side length of 10 units, how many squares are needed to cover an area of at least 200 square units?

[+1]
[-0]



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

Q3. In the word "ALGORITHMS", after interchanging the first and second letters, third and fourth, fifth and sixth, and so on, what is the fourth letter from the left?

[+1]
[-0]

- A. O
- B. G
- C. I
- D. R
- E. None of the option is correct

Q4. In a code, the word "CANDLE" is written as "EDRIRL" then what is the code for "FLAME" ?

[+1]
[-0]

- A. HOEKR
- B. HOFKR
- C. HOERK
- D. HOFKR
- E. None of the option is correct

Q5. Here are some words translated from an artificial language.

[+1]
[-0]

ventarosa means windflower

azulventar means bluewind

azulpetra means bluegem

Which word could mean "flowergem"?

- A. rosapetra
- B. ventarpetra
- C. azulrosa
- D. petravent
- E. None of the option is correct

Q6. What is the next term in the sequence ?

[+1]
[-0]

PKQZ , RMSB , TOUD , __?__

- A. VWQF
- B. VJBG
- C. VQWF
- D. QVWF
- E. None of the option is correct

Q7. Rahul starts from a point and runs 35 m towards the west. He then turns right and runs 15 m. Next, he turns left and runs 20 m. He again turns right and runs 10 m. Finally, he turns left and runs 25 m. In which direction is he facing now?

[+1]
[-0]

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

Q8. In a group of five people Anil, Bharat, Chitra, Deepak, and Esha, the following height relationships are known:

[+1]
[-0]

- Anil is taller than Bharat but shorter than Chitra.
 - Deepak is taller than Esha but shorter than Bharat.
 - Esha is shorter than all others.
- Who is the tallest among them?

- A. Anil
- B. Chitra
- C. Deepak
- D. Esha
- E. Bharat

Q9. Five students, A, B, C, D, and E, are sitting in a row facing north. A is at one end. C is to the immediate right of B. E is not next to A. D is to the left of B. Who is in the middle?

[+1]
[-0]

- A. A
- B. B
- C. C
- D. D
- E. None of the option is correct

Q10. P is Q's brother, X is P's mother, Y is X's father, Z is Q's son. How is Z related to P?

[+1]
[-0]

- A. Cousin
- B. Grandfather
- C. Nephew
- D. Uncle
- E. None of the option is correct

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

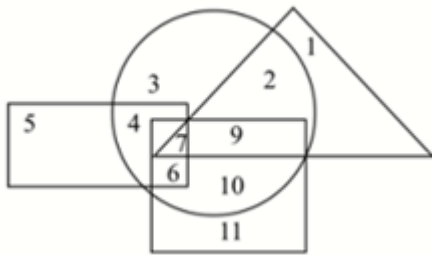
[+1]
[-0]

8	7	6
5	4	3
39	33	?

- A. 32
- B. 36
- C. 25
- D. 27
- E. None of the option is correct

Q12. In the following figure, rectangle stands for wheat, square stands for gram, circle stands for maize and triangle represents linseed cultivation. Which area is cultivated by all the four types ?

[+1]
[-0]



- A. 7
- B. 8
- C. 9
- D. 2
- E. None of the option is correct

Q13. Choose the correct option to continue the series .

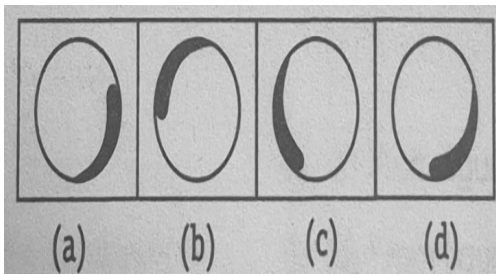
[+1]
[-0]

589654237, 89654237, 8965423, 965423, _____

- A. 58965
- B. 65423
- C. 89654
- D. 96542
- E. None of the option is correct

Q14. In the following question, four figures are given. Three are similar in a certain way and so form a group. Find out which one of the figures does not belong to that group.

[+1]
[-0]



- A. (b)
- B. (c)
- C. (d)
- D. (a)
- E. None of the option is correct

Q15. Which group of numbers has the same property as of the numbers in the given set?

[+1]
[-0]

Given set: {48, 40, 24}

- A. {50, 52, 26}
- B. {50, 42, 26}
- C. {42, 40, 28}
- D. {48, 42, 26}
- E. None of the option is correct

Q16. What is the primary function of ROM in a computer?

[+1]
[-0]

- A. To store temporary data
- B. To hold permanent instructions
- C. To manage network connections
- D. To run applications
- E. None of the option is correct

Q17. Which feature in Windows allows you to revert the system to a previous state?

[+1]
[-0]

- A. System Restore
- B. Disk Cleanup
- C. Task Manager
- D. Control Panel
- E. None of the option is correct

Q18. Which of the following is a technique to blend two or more images to form a new image?

[+1]
[-0]

- A. Modeling
- B. Morphing
- C. Animating
- D. Warping
- E. None of the option is correct

Q19. What is a 'Page Fault' in operating systems?

[+1]
[-0]

- A. When a requested page is not in memory
- B. When the CPU overheats
- C. When a program crashes
- D. When the hard disk fails
- E. None of the option is correct

Q20. What is the role of an operating system's kernel?

[+1]
[-0]

- A. To provide a user interface
- B. To manage hardware resources
- C. To run application software
- D. To connect to the internet
- E. None of the option is correct

Q21. What is the correct syntax for including CSS in an HTML document?

[+1]
[-0]

- A. `<style src="styles.css">`
- B. `<css src="styles.css">`
- C. `<script src="styles.css">`
- D. `<link rel="stylesheet" href="styles.css">`

- A. A
- B. B
- C. C
- D. D
- E. None of the option is correct

Q22. Android 16, recently released, introduces Adaptive Apps for foldable devices to enhance user experience. If a student is using a foldable phone with Android 16, how might Adaptive Apps improve their interaction with a note-taking app compared to Android 15?

[+1]
[-0]

- A. The app automatically compresses notes to save storage space
- B. The app restricts access to other apps for security
- C. The app adjusts its layout dynamically based on the screen's fold state
- D. The app removes all animations for faster performance
- E. None of the option is correct

Q23. A developer is designing a secure chat application for students, using encryption to protect messages. If an unauthorized user tries to access a message without the key, what challenge does encryption create for them, according to its purpose?

[+1]
[-0]

- A. The message requires more storage space
- B. The message cannot be understood due to its scrambled format
- C. The message triggers a software update
- D. The message slows down their device
- E. None of the option is Correct

- Q24.** In a school's online quiz system, students enter their answers as numerical codes (e.g., 1, 2, 3, 4). The system processes these codes to generate a report showing correct and incorrect answers with explanations. What does this processing transform the numerical codes into? [+1]
[-0]
- A. Processed information
 - B. Raw data
 - C. A software application
 - D. System commands
 - E. None of the option is correct
- Q25.** To access 3 frequently updated pages (news/blog/wiki) in one click, while ensuring you always see the latest content: [+1]
[-0]
- A. Bookmark each with "Open in New Tab" grouped under one folder
 - B. Save their homepage URLs only
 - C. Use "Copy Link" and paste daily
 - D. Subscribe to email newsletters
 - E. None of the option is correct
- Q26.** You're creating a research document in Word with 50 embedded Excel charts. When updating data in Excel, you want all Word charts to auto-refresh without manual reinsertion. This is ensured by which setup ? [+1]
[-0]
- A. Copy-paste charts as pictures
 - B. Use "Paste Special → Link to Excel" for dynamic OLE embedding
 - C. Save charts as separate image files
 - D. Enable "AutoRecover" in Word
 - E. None of the option is correct
- Q27.** Which technology enables contactless payments at POS terminals? [+1]
[-0]
- A. Optical Character Recognition (OCR)
 - B. Radio Frequency Identification (RFID)
 - C. Biometric authentication
 - D. Near Field Communication (NFC)
 - E. None of the option is correct
- Q28.** When upgrading a gaming PC, you need to install both a GPU and a Wi-Fi card. The motherboard has one PCIe x16 slot and two PCIe x1 slots. Which configuration is feasible? [+1]
[-0]
- A. GPU in PCIe x1 slot, Wi-Fi card in PCIe x16 slot
 - B. GPU in PCIe x16 slot, Wi-Fi card in PCIe x1 slot
 - C. Both devices in USB ports via adapters
 - D. Stack both cards in the single PCIe x16 slot
 - E. None of the option is correct
- Q29.** In a dense office building, switching from 2.4GHz to 5GHz Wi-Fi bands primarily addresses: [+1]
[-0]
- A. Reduced interference from neighboring networks
 - B. Lower power consumption
 - C. Extended signal range through walls
 - D. Compatibility with legacy devices
 - E. None of the option is correct

- Q30.** What is the maximum length of a file name in the NTFS file system? [+1]
[-0]
- A. 8 characters
 - B. 255 characters
 - C. 1024 characters
 - D. Unlimited.
 - E. None of the option is correct
- Q31.** Which of the following storage devices uses magnetic storage? [+1]
[-0]
- A. SSD
 - B. DVD-R
 - C. Floppy Disk
 - D. USB Flash Drive
 - E. None of the option is correct
- Q32.** Which of the following has the longest communication range under normal conditions? [+1]
[-0]
- A. Bluetooth
 - B. Infrared
 - C. Wi-Fi
 - D. Ethernet
 - E. None of the option is correct
- Q33.** Which of the following is a common sensor in a smartwatch for tracking physical activity? [+1]
[-0]
- A. Gyroscope
 - B. Accelerometer
 - C. Both A and B
 - D. Barometer
 - E. None of the option is correct
- Q34.** How would you reference cell A1 on Sheet2 from Sheet1 in Excel? [+1]
[-0]
- A. Sheet2!A1
 - B. A1:Sheet2
 - C. Sheet2>A1
 - D. A1@Sheet2
- A. A
 - B. B
 - C. C
 - D. D
 - E. None of the the option is correct
- Q35.** Which of the following is an example of firmware? [+1]
[-0]
- A. Microsoft Word
 - B. BIOS
 - C. Windows OS
 - D. Defragmenter
 - E. None of the above

- Q36.** What do you call a program embedded in a semiconductor chip during its manufacture ? [+1]
[-0]
- A. Application Software
 - B. Firmware
 - C. Liveware
 - D. Hardware
 - E. None of the option is correct
- Q37.** In PowerPoint, what is the purpose of the 'Trigger' option in custom animation? [+1]
[-0]
- A. To start an animation when a specific event occurs
 - B. To add sound to an animation
 - C. To loop an animation
 - D. To hide an animation
 - E. None of the option is correct
- Q38.** What is the default port number for SMTP? [+1]
[-0]
- A. 25
 - B. 110
 - C. 143
 - D. 80
 - E. None of the option is correct
- Q39.** In Microsoft Outlook, what is the purpose of the 'PST' file? [+1]
[-0]
- A. Temporary internet files
 - B. Printer settings
 - C. Security tokens
 - D. Storing email messages, calendar events, and contacts
 - E. None of the option is correct
- Q40.** Which browser uses the Blink rendering engine? [+1]
[-0]
- A. Firefox
 - B. Internet Explorer
 - C. Safari
 - D. Chrome
 - E. None of the option is correct
- Q41.** When cross-referencing figure numbers in a 200-page report, which setup ensures references update if figures are reordered? [+1]
[-0]
- A. Manual numbering (e.g., "Fig. 1")
 - B. Bookmarks with hyperlinks
 - C. Caption labels + Insert Cross-reference
 - D. Endnote numbering system
 - E. None of the option is correct

- Q42.** Which of the following is not a feature of Windows Defender? [+1]
[-0]
- A. Virus & threat protection
 - B. Disk defragmentation
 - C. Account protection
 - D. Firewall & network protection
 - E. None of the option is correct
- Q43.** Which view in PowerPoint allows you to edit the Handout Master? [+1]
[-0]
- A. Normal view
 - B. Slide Sorter view
 - C. Handout Master view
 - D. Notes Page view
 - E. None of the option is correct
- Q44.** Which of the following is a way to avoid plagiarism? [+1]
[-0]
- A. Paraphrasing and citing sources
 - B. Copying and pasting without attribution
 - C. Using images without permission
 - D. Buying a paper online
 - E. None of the option is correct
- Q45.** What is the purpose of the 'Wrap Text' option for images in Word? [+1]
[-0]
- A. To change the image's brightness
 - B. To determine how text flows around the image
 - C. To compress the image size
 - D. To add a border to the image
 - E. None of the option is correct
- Q46.** Google's "Project Starline" aims to revolutionize video calls by: [+1]
[-0]
- A. Using holograms for 3D interactions
 - B. Integrating AR filters for virtual backgrounds
 - C. Creating life like 3D conversations without glasses
 - D. Adding AI chatbots to meetings
 - E. None of the option is correct
- Q47.** India's Unified Payments Interface (UPI) revolutionized digital payments globally by: [+1]
[-0]
- A. Using blockchain for transactions
 - B. Enabling instant bank-to-bank transfers via mobile without cards
 - C. Mandating Aadhaar linkage for all users
 - D. Charging zero transaction fees for merchants
 - E. None of the option is correct

Q48. A student creates a Minecraft mod simulating sustainable farming with crop rotation. This project best demonstrates:

[+1]
[-0]

- A. Texture-pack customization
- B. Systems thinking through dynamic resource modelling
- C. Virtual reality integration
- D. Combat strategy optimization
- E. None of the option is correct

Q49. A school's firewall blocks Discord but students bypass it using TLS-based web proxies. The IT team's optimal countermeasure is:

[+1]
[-0]

- A. Block all HTTPS traffic
- B. Deploy SSL inspection with content categorization
- C. Disable UDP ports 53 and 443
- D. Shutdown student Wi-Fi access
- E. None of the option is correct

Q50. What does a cell showing #REF! after deleting a column indicates:

[+1]
[-0]

- A. Division by zero occurred
- B. Unformatted number overflow
- C. Broken cell reference
- D. Unrecognized function name
- E. None of the options is correct

CLASS / GRADE
Class 7SUBJECT
IFCOTOTAL QUESTIONS
50MAX MARKS
50

ANSWER SHEET — 50 QUESTIONS

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

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