



Workbook for

International CYBER Olyn

National/International Olympiads/Taler

Based on CBSE, ICSE, GCSE, State Board Syllabus & NCF (NCERT)

100's of Q's with answers

- Chapterwise Practice Q'sRevision Q'sSample Paper





HEAL FOUNDATION LEARNING FOR I

EduHeal Foundation conducts 5 Olympiads annually reaching 4 Lakh + Students ● 50,000 Coordinating Teachers and havi in English / Maths / Science / Biotech / Computer & 300 R



















WORKSHOP • TEACHER TRAINING PROG. • MAGAZINE/LAB GRANT • PRINCIPAL LEADERSHIP AWARD.

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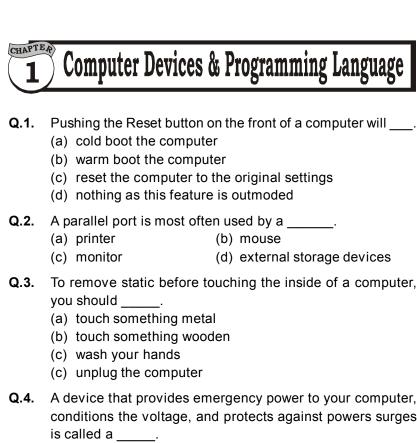
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SYLLABUS GUIDELINES

Based on CBSE, ICSE & GCSE Syllabus & NCF guidelines devised by NCERT.

Computer Devices & Programming Lanaguage; Operating Systems; Computer and Communication; MS-Word; MS-Excel; PowerPoint





	(a) cold boot the computer(b) warm boot the computer(c) reset the computer to the(d) nothing as this feature is	e original settings			
Q.2.	(a) printer (b	used by a) mouse) external storage devices			
Q.3.	To remove static before touching the inside of a computer you should (a) touch something metal (b) touch something wooden (c) wash your hands (c) unplug the computer				
Q.4.	A device that provides emergency power to your computer conditions the voltage, and protects against powers surge is called a (a) PSU = Power Supply Unit (b) USP = Universal Surge Protector (c) UPPS = Universal Power Protection and Supply (d) UPS = Uninterruptible Power Supply				
Q.5.	(a) floppy (b	kette is the drive. CD-ROM hard			
Q.6.	port. (a) parallel (b	connect or disconnect a) serial) PS/2			
Q.7.	(a) power surge (b	r electric power lines is a) power spike) brownout			
Q.8.	A device that is connected to	the motherboard is			

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Q.18. Devices that store information, and the computer uses the information to perform tasks: (b) Output (a) Input (c) Software (d) Storage Q.19. Which of the following products the best quality graphics reproduction? (a) laser printer (b) ink jet printer (d) dot matrix printer (c) plotter Q.20. Which of the following memories allows simultaneous read and write operations? (b) RAM (a) ROM (c) EPROM (d) none of these **Q.21.** To set a register or counter to the all-zero-state is: (a) rerun (b) reset (c) remote (d) release Q.22. A set of information that defines the status of resources allocated to a process is: (b) ALU (a) process control (c) register unit (d) process description Q.23. Which of the following is a programming language which is used for the development of PASCAL? (a) C (b) FORTRAN (c) CORAL (d) MODULA Q.24. Communication using a modulated carrier to apply a data signal to a transmission medium in analog form is: (a) local area network (b) modem (c) base band networking (d) broad band networking Q.25. A program that is used to help solve a data- processing problem is: (b) system software (a) utilities (c) application programs (d) software tool Q.26. An input device used with interactive graphics to locate a place on the screen is: (a) touch panel (b) tablet (c) modem (d) mouse

3

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4		E セ G Olympiad Explorer
Q.27.	A class of random access servicing in order for the calcalcalcalcalcalcalcalcalcalcalcalcalc	s memory that requires periodic ontents to remain valid is: (b) dynamic RAM (d) EPROM
Q.28.	understandable form is: (a) assembly language	press algorithms in computer (b) low-level language (d) programming language
Q.29.	The main control comput processors & terminals is: (a) hybrid (c) host computer	ter in a network of distributed (b) analog (d) digital
Q.30.	A network designed for carrying all types of traffic (a) ISDN (c) LAN	data transmission & capable of is: (b) MAN (d) WAN
Q.31.	MODULA is a: (a) programming languag (b) low-level language (c) punched paper tape (d) machine language	е
Q.32.	One pico second is: (a) 100 seconds (c) assembly language	(b) 10 seconds(d) machine language
Q.33.	An operating system all languages such as PASCA (a) UNIX (c) UCSD	ied to structured programming AL is: (b) CP/M (d) MS-DOS
Q.34.	An input device with a joys (a) punched card (c) magnetic tape	(b) paddle
Q.35.	A device which enables coalong telephone lines is:	omputer signals to be transmitted

(b) modem

(d) plotter

(a) network

(c) light pen

Q.36. An input device that reads printed text employing optical character pattern matching is known as: (a) scanner (b) magnetic disk (d) magnetic tape (c) mouse **Q.37.** A sizeable geographical area with communication based on the telephone system is (a) local area network (b) wide area network (c) modulator-demodulator (d) all of the these Q.38. One megabyte is: (a) 1048576 bytes (b) 211000 bytes (c) 102756 bytes (d) 81100 bytes Q.39. The use of computers for the input, output and storage of drawings, images of pictures is known as: (b) graphics (a) network (d) all of the these (c) printer Q.40. A number of micro computers connected together to share peripherals and programs is: (a) computer graphics (b) local-area network (c) modulator-demodulator (d) all of the these Q.41. Multiple computers linked together for the purpose of data communication and resource sharing is: (a) modem (b) computer graphics (d) all of the these (c) computer network Q.42. Which is an impact printer? (a) daisy wheel (b) ink-jet printer (c) plotter (d) laser printer Q.43. The only language understood by a digital computer is called (a) assembly language (b) high level language (d) binary language (c) low level **Q.44.** A computer peripheral that prints one line of output at a time is known as:

(b) daisy wheel printer

(d) serial printer

(a) dot matrix printer

(c) line printer

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Q.45.	Data processing computer built to conventional architecture is known as:					
	(a) super computer (c) micro computer (
Q.46.	output at a time is:	h produces one page of printed				
	(a) page printer	(b) line printer (d) dot matrix printer				
Q.47.	` '	mini computer is: (b) 256 KB (d) 1024 KB				
Q.48.	` '	r in office is for: (b) word processing (d) all of the these				
Q.49.	A storage system for small (a) magnetic card (c) punched card	(b) magnetic tape				
Q.50.	A device that converts one type of signal into another is called: (a) modem (b) transducer (c) punched paper tape (d) punched card					
Q.51.	` '	ralues of variables. (b) ROM (d) PROM				
Q.52.	A network topology in which the outer nodes connect to a single natural node is known as: (a) active star (b) local area network (c) actigram (d) all of these					
Q.53.	operations? (a) input	m instructions and initiate control (b) storage unit (d) control unit				
Q.54.	` ,	switching network? (b) LAN (d) euro net				
Q.55.	(a) LOTUS	program for micro computers is: (b) dBASE (d) BASIC				

Q.56.	(a) 640 KB (c) 16-250 KB	(b) 8-64 KB (d) 32-640 KB			
Q.57.	Which is an input device? (a) tape puncher (c) card puncher	(b) teleprocessing terminal(d) optical printer			
Q.58.	Compression of digital dat (a) buffer (c) packing	a for efficient storage is: (b) CPU (d) field			
Q.59.	and 0s is called:(a) assembling language	e which consists of strings of 1s (b) high-level language (d) 4GL			
Q.60.	64 MB main memory is:	outer with very high speed CPU & (b) super computer (d) micro computer			
Q.61.	Which method is of reading the characters and providing input to a computer? (a) optical character reader (b) punched paper tape (c) card punch (d) magnetic ink character				
Q.62.	Which is a fast main men handled by system softwa (a) Core memory (c) RAM	nory and slow peripheral memory re. (b) Virtual memory (d) Dynamic memory			
Q.63.	A memory space used for (a) PROM (c) Scratchpad storage	the temporary storage of data is: (b) SAM (d) Buffer			
Q.64.	The three main microcom (1) IBM PC-compatible (3) apple macintosh Choose the correct option (a) only 1 is correct (c) 1, 3 & 4 are correct	(4) workstation computers			
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- Q.65. Which of the following statements about ROM are true?
 - (1) once information is placed in ROM it is permanent
 - (2) once information is placed in ROM it is not permanent (it will be erased each time power is lost to the computer)
 - (3) ROM is sometimes called firmware
 - (4) ROM is not used for data that changes constantly Choose the correct option
 - (a) only 1 is correct
- (b) only 3 is correct
- (c) 1, 3 & 4 are correct
- (d) none of these
- **Q.66.** Which company is the biggest player in the microprocessor industry?
 - (a) Motorola
- (b) IBM

(c) Intel

(d) AMD

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ANSWERS

1. (b) 2. (a) 3. (a) 4. (d) 5. (a) 6. (d) 7. (d) 8. (d) 11. (c) 12. (d) 13. (b) 14. (c) 15. (a) 16. (c) 9. (c) 10. (b) 21. (b) 22. (d) 23. (d) 24. (d) 17. (b) 18. (d) 19. (c) 20. (d) 25. (d) 26. (b) 27. (b) 28. (a) 29. (c) 30. (a) 31. (a) 32. (b) 33. (c) 34. (b) 35. (b) 36. (a) 37. (b) 38. (a) 39. (b) 40. (b) 41. (c) 42. (a) 43. (b) 44. (c) 45. (b) 46. (a) 47. (b) 48. (b) 49. (a) 50. (b) 51. (c) 52. (a) 53. (d) 54. (d) 55. (c) 56. (b) 57. (b) 58. (c) 59. (c) 60. (d) 61. (a) 62. (b) 63. (c) 64. (c) 65. (c) 66. (c)

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Operating System

Q.1.	runs on computer hardware and serve as platform for other softwares to run on (a) Operating System (b) Application Software (c) System Software (d) None of these			
Q.2.	is the layer of a hardware and the user prog (a) Operating environment (b) Operating system (c) System environment (d) None of these	computer system between the ram		
Q.3.	The primary purpose of an operating system is (a) To make the most efficient use of the computer hardward (b) To allow people to use the computer (c) To keep systems programmers employed (d) To make computers easier to use			
Q.4.	(a) Program (l	erface into another interface b) Software d) None of these		
Q.5.	(a) Environment (rectly on the hardware b) System d) None of these		
Q.6.	Multiprogramming systems (a) Are easier to develop th (b) Execute each job faster (c) Execute more jobs in th (d) Are used for only one la	ne same time period		
Q.7.	is the first program computer boots up (a) System software (c) System operations (d)			
Q.8.	registers, interrupts and terr (a) Hardware	of things like program counter, ninals. b) Software d) None of these		

Q.9.	shares characteristics with both hardware and soft	ware
	(a) Operating system(b) Software(c) Data(d) None of these	
Q.10.	• • • • • • • • • • • • • • • • • • • •	nism
Q.11.	. The operating system creates from the physical comp (a) Virtual space (b) Virtual computers (c) Virtual device (d) None of these	outer
Q.12.	 Swapping (a) Works best with many small partitions (b) Allows many programs to use memory simultaneou (c) Allow each program in turn to use the memory (d) Does not work with overlaying 	ısly
Q.13.	. Which of the following operating does not impler multitasking truly (a) Windows 98 (b) Windows NT (c) Windows XP (d) MS DOS	nent
Q.14.	 When a computer is first turned on or restarted, a sp type of absolute loader called is executed. (a) Compile and Go loader (b) Boot loader (c) Bootstrap loader (d) Relating loader 	ecial
Q.15.	. Poor response times are usually caused by (a) Process busy (b) High I/O rates (c) High paging rates (d) Any of the above	
Q.16.	 Which of the following program is not a utility? (a) Debugger (b) Editor (c) Spooler (d) All of the above ⊕ ⊕ ⊕ 	
	ANSWERS	
1. (a) 9. (a)	a) 2. (b) 3. (a) 4. (b) 5. (c) 6. (c) 7. (b) 8. (d) 10. (b) 11. (b) 12. (c) 13. (d) 14. (c) 15. (d) 16.	(a) 6. (c)

INTERNATIONAL CYBER OLYMPIAD (ICO) SAMPLE PAPER

Total duration : 60 Minutes **Total Marks :** 50

SECTION - A GENERAL IO.

1.	The average age of 24 students in a class is 15 years. If the teacher's age
	is included, the average increases by one. What is the age of the teacher

(a) 60 years

(b) 45 years

(c) 40 years

(d) None of these

2. A student was asked to add 16 and substract 10 from a number. By mistake he subtracted 16 and added 10 and found the answer 14. What is the right answer?

(a) 20

(b) 26

(c) 30

(d) None of these

3. If 'X' stands for addition; '+' stands for substraction; ' \div ' stands for multiplication, and '-' stands for division, then $(20-6 \div 6 \times 4)$ is equal to

(a) 5

(b) 24

(c) 25

(d) None of these

4. Pointing out to a girl a man said "My uncle is the uncle of this girl's uncle". How is the man related with that girl?

(a) Brother

(b) Father

(c) Father in law

(d) None of these

5. A, B, C and D are on the four corners of a square. A, B and C moves anticlockwise and D moves clockwise. After crossing 2 sides, they stop. Which of the following statements regarding their present position is correct?

(a) C is to the West of B (b) B and D meet at a point

(c) A is South – East to C(d) None of these

6. If *x* and *y* are negative, then which of the following statements are always true?

I. x + y is positive

II. xy is positive

III. x - y is positive

(b) II only

(a) I only(c) III only

(d) I and III only

7. If TOUR is written as 1234, CLEAR is written as 56784 and SPARE is written as 90847, find the code for CARE.

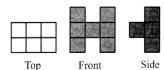
(a) 5874

(b) 5847

(c) 5247

(d) None of these

8. Shown below are 3 different views of a three-dimensional figure made from cubes.



Which could be the drawing of the figure?







(d) None of these

9. Select the answer figure in which question figure is hidden.









(d) None of these

10. *X* is 25 cm to the west of *B*; *C* is 40 cm to the east of *X* and *D* is 45 cm to the west of *B*. If all are standing along a straight line, how far is *X* from *D*?

(a) 15 cm

(b) 60 cm

(c) 20 cm

(d) None of these

SECTION - B COMPUTERS

- 11. Which of the following is included in System Software?
 - (a) Payroll Processing Software
 - (b) Result Processing Software
 - (c) Operating System
- (d) None of these

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12.	A computer understands (a) Only machine language (c) Only english	(b) Only high level language(d) Any language	22.	Micro computer are also ki (a) Mini computers (c) Super computer	nown as (b) Personal computers (d) Laptop computer	
13.	, ,	owned and operated by educational (b) edu domain (d) None of these	23.		g device is used for connecting telephone (b) Browser (d) None of these	
14.	· / •	s used for accessing a website? (b) E-mail (d) None of these	24.	Which of the following dev (a) OCR (c) MICR	vice can be used to input printed text? (b) OMR (d) All of these	
15.		not included in Control Panel Window? (b) Network Connection (d) Add and Remove Programme		(a) Window 2000(c) LINUX	is called multitasking operating system? (b) UNIX (d) All the these	
16.	What is the full form of MAN (a) Metorpolitan Area Netwo (b) Metripolitan Area Netwo (c) Metropolitan Area Netwo (d) Metropoletan Area Netwo		Aditya wants to collect information regarding. "Mahatma Gandhi". Which of the following is useful to collect the information? (a) Search Engine (b) Compiler (c) Interpeter (d) None of these A compiler is			
17.	Translator converts high level executing program, A translate (a) A system software (c) A hardware component	el language into machine codes while tor is:- (b) An application software (d) None of these		 (a) A combination of computer hardware (b) A program which translates from high level language to anot (c) A program which translates from one high level language machine level (d) None of these 		
18.		in Delhi and its branch in Mumbai. tworking is useful for connecting these (b) WAN (d) None of these		of data? (a) Floppy disk (c) Compact disk	(b) Hard disk (d) Magneto optic disk.	
19.	A red line under the text in M (a) Grammatical mistake	S-Word indicates (b) Spelling error		(a) F1 (b) F2	d can be used to View Slide Show? (c) F3 (d) F5 act over internet, the transaction is called	
20.	(c) Both (a) and (b)Which of the following proto(a) ftp	(d) None of these col is used for www? (b) http		(a) Web Commerce (c) m-commerce	(b) e-commerce(d) Mobile purchases	
21.	(c) w3c (d) None of these Chhaya wants to Replace the word "Beautiful" with "handsome" in her MS Word document. Which shotcut key she can use?		31.	Jony can change the margi (a) Using the ruler (c) Both (a) and (b)	n of an MS Word document (b) Using the page setup (d) None of these	
	(a) Ctrl + F (c) Ctrl + G	(b) Ctrl + H (d) Ctrl + P	32.	Manish can quickly and ea (a) Data into chart (c) Both (a) and (b)	sily turn his (b) Chart into data (d) None of these	

SECTION - C INTERACTIVE SECTION

Use the following information to answer questions 33 to 36:

Tanveer is typing an article in MS Word.

I— L— G/	Eile	- ≆ 🖫 🖪 ala[Fornat Tools *** ** ** New Roman - 24	B I U	2 !	Acrobat Comments	¶ 100%	
			With an Intern	et connection g on the Web.		Change Case C Sentence case. C jowercase C UpperCase C Dite Case C togGLE case		A

- **33.** He wants to change all the matter in the capital letters. Which option should he click?
 - (a) A

(b) B

(c) C

- (d) None of these
- **34.** He opens the document in print preview and wants to edit? Which icon should he click?
 - (a) D

(b) E

(c) F

- (d) None of these
- **35.** He wants to decrease the line spacing of the above document. How it will be done?
 - (a) Through I

(b) Through J

- (c) Through K
- (d) None of these
- **36.** After the heading, he wants to give the bullets in the text. Which toolbar should he select for desired result?
 - (a) L

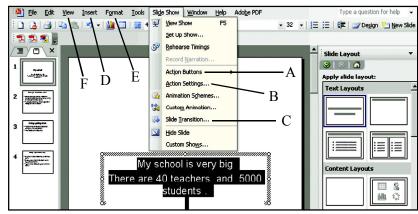
(b) G

(c) H

(d) None of these

Use the following information to answer questions 37 to 43:

Himanshu made a presentation about his school.



- **37.** Which one of the following drop down menu he has opened?
 - (a) Slide show
- (b) Slide layout
- (c) View show

- (d) None of these
- **38.** Which font size he took for selected text?
 - (a) 40

(b) 32

(c) 50

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- (d) None of these
- **39.** In which slide he is currently working?
 - (a) Slide 1

(b) Slide 2

(c) Slide 3

- (d) Slide 4
- **40.** He wants to make different effects in the slide. Which one of the following should he choose?
 - (a) A

(b) B

(c) C

- (d) None of these
- **41.** He also wants to insert picture through a file. Which one of the following should he select?
 - (a) D

(b) E

(c) F

- (d) None of these
- **42.** He saves the above file name as "school". What is complete name of the file?
 - (a) School.ppt
- (b) School.doc
- (c) School.xls

- (d) None of these
- **43.** After completing presentation, he wants to run the Slide show. Which of the following key is used to view show?
 - (a) F1

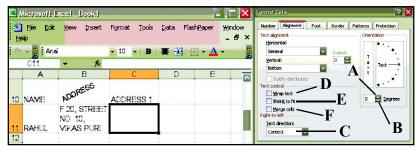
(b) F3

(c) F5

(d) F10

Use the following information to answer questions 44 to 47:

Shyam is working in MS Excel file.



- **44.** Which of the following is used to write text in the format as shown in cell B10?
 - (a) Click on A (b) Click on B (c) Click on C (d) None of these
- **45.** Which of the following is used to write the text in the format as shown in cell B11?
 - (a) D
- (b) E
- (c) F
- (d) None of these
- **46.** The above dialog box comes from the
 - (a) Edit menu

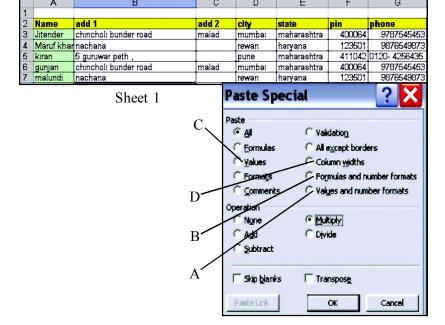
(b) Format menu

(c) Tool menu

- (d) Insert menu
- **47.** Which cell she has selected?
 - (a) C9
- (b) C8
- (c) B8
- (d) C11

Use the following information to answer questions 48 to 50:

Santosh is making the list of his friend's address. He is working in Sheet 1.



- **48.** He wants to paste same matter in sheet 2 with same column width. In which should he click?
 - (a) A

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- (b) B
- (c) C
- (d) D
- **49.** Before the use of paste special you need to
 - (a) First select the text ,copy it and then use paste special
 - (b) Directly use paste special
 - (c) Copy and use
 - (d) None of these
- **50.** Transpose is used to:
 - (a) Copy the data
- (b) To change data layout
- (c) To delete the text
- (d) None of these

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ANSWERS

- 1. (c) 2. (b) 3. (b) 4. (b) 5. (c) 6. (b) 7. (b) 8. (a)
- 9. (c) 10. (c) 11. (c) 12. (a) 13. (b) 14. (a) 15. (a) 16. (c
- 17. (b) 18. (c) 19. (b) 20. (b) 21. (b) 22. (b) 23. (c) 24. (d)
- 25. (d) 26. (a) 27. (c) 28. (b) 29. (d) 30. (b) 31. (c) 32. (
- 33. (c) 34. (d) 35. (c) 36. (b) 37. (a) 38. (b) 39. (a) 40. (c)
- 41. (a) 42. (a) 43. (c) 44. (a) 45. (a) 46. (b) 47. (d) 48. (d)
- 49. (a) 50. (b)

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