1. UNIVAC is
A) Universal Automatic Computer
B) Universal Array Computer
C) Unique Automatic Computer
D) Unvalued Automatic Computer
2. The basic operations performed by a computer are
A) Arithmetic operation
B) Logical operation
C) Storage and relative
D) All the above
3. The two major types of computer chips are
A) External memory chip B) Primary memory chip C) Microprocessor chip D) Both b and c
4. Microprocessors as switching devices are for which generation computers
A) First Generation
B) Second Generation
C) Third Generation
D) Fourth Generation
5. What is the main difference between a mainframe and a super computer?
A) Super computer is much larger than mainframe computers
B) Super computers are much smaller than mainframe computers C) Supercomputers are focused to execute few programs as fast as possible while mainframe uses its power to execute as many

programs concurrently

- D) Supercomputers are focused to execute as many programs as possible while mainframe uses its power to execute few programs as fast as possible.
- 6. ASCII and EBCDIC are the popular character coding systems.

What does EBCDIC stand for?

- A) Extended Binary Coded Decimal Interchange Code
- B) Extended Bit Code Decimal Interchange Code
- C) Extended Bit Case Decimal Interchange Code
- D) Extended Binary Case Decimal Interchange Code
- 7. The brain of any computer system is
- A) ALU
- B) Memory
- C) CPU
- D) Control unit
- 8. Storage capacity of magnetic disk depends on
- A) tracks per inch of surface
- B) bits per inch of tracks
- C) disk pack in disk surface
- D) All of above
- 9. The two kinds of main memory are:
- A) Primary and secondary B) Random and sequential C) ROM and RAM
- D) All of above

10. A storage area used to store data to a compensate for the difference in speed at which the different units can handle data is
A) Memory
B) Buffer
C) Accumulator
D) Address
11. Computer is free from tiresome and boardroom. We call it
A) Accuracy B) Reliability C) Diligence D) Versatility
12. Integrated Circuits (ICs) are related to which generation of computers?
A) First generation
B) Second generation
C) Third generation
D) Fourth generation
13. CD-ROM is a
A) Semiconductor memory
B) Memory register C) Magnetic memory D) None of above
14. A hybrid computer
A) Resembles digital computer
B) Resembles analogue computer
C) Resembles both a digital and analogue computer

D) None of the above
15. Which type of computers uses the 8-bit code called EBCDIC?
A) Minicomputers
B) Microcomputers
C) Mainframe computers
D) Super computer
16. The ALU of a computer responds to the commands coming from
A) Primary memory
B) Control section
C) External memory
D) Cache memory
17. Chief component of first generation computer was
A) Transistors
B) Vacuum Tubes and Valves
C) Integrated Circuits
D) None of above
18. To produce high quality graphics (hardcopy) in color, you would want to use a/n
A) RGB monitor
B) Plotter
C) Ink-jet printer
D) Laser printer

19. What are the stages in the compilation process?
A) Feasibility study, system design and testing
B) Implementation and documentation
C) Lexical Analysis, syntax analysis, and code generation
D) None of the above
20. Which of the following IC was used in third generation of computers?
A) SSI
B) MSI C) LSI
D) Both a and b
21. The main electronic component used in first generation computers was
A) Transistors
B) Vacuum Tubes and Valves
C) Integrated Circuits
D) None of above
22. A dumb terminal has
A) an embedded microprocessor
B) extensive memory
C) independent processing capability
D) a keyboard and screen
23. One millisecond is
A) 1 second
B) 10th of a seconds

C) 1000th of a seconds
D) 10000th of a seconds
24. The output quality of a printer is measured by
A) Dot per sq. inch
B) Dot per inch
C) Dots printed per unit time
D) All of the above
25. Which of the following was a special purpose computer?
A) ABC
B) ENIAC C) EDVAC
D) All of the above
26. What was the computer invented by Attanasoff and Clifford?
A) Mark I B) ABC
C) Z3
D) None of above
27. Which of the following storage devices can store maximum amount of data?
A) Floppy Disk
B) Hard Disk
C) Compact Disk
D) Magneto Optic Disk
28. Which computer was considered the first electronic computer until 1973 when court

invalidated the patent?
A) ENIAC B) MARK I C) Z3
D) ABC
29. A physical connection between the microprocessor memory and other parts of the microcomputer is known as
A) Path
B) Address bus
C) Route
D) All of the above
30. High density double sided floppy disks could store of data
A) 1.40 MB B) 1.44 GB C) 1.40 GB D) 1.44 MB
31. A high quality CAD system uses the following for printing drawing and graphs
A) Dot matrix printer
B) Digital plotter
C) Line printer
D) All of the above
32. Which of the following is not an input device?
A) OCR
B) Optical scanners
C) Voice recognition device
D) COM (Computer Output to Microfilm)

33. The accuracy of the floating-point numbers representable in two 16-bit words of a computer is approximately
A) 16 digits B) 6 digits C) 9 digits
D) All of above
34. In most of the IBM PCs, the CPU, the device drivers, memory, expansion slots and active components are mounted on a single board. What is the name of the board?
A) Motherboard
B) Daughterboard
C) Bredboard
D) Fatherboard
35. In most IBM PCs, the CPU, the device drives, memory expansion slots and active components are mounted on a single board. What is the name of this board?
A) Motherboard
B) Breadboard
C) Daughter board
D) Grandmother board
36. Magnetic disks are the most popular medium for
A) Direct access
B) Sequential access
C) Both of above
D) None of above
37. A technique used by codes to convert an analog signal into a digital bit stream is known as

A) Pulse code modulation
B) Pulse stretcher
C) Query processing
D) Queue management
38. Regarding a VDU, Which statement is more correct?
A) It is an output device
B) It is an input device
C) It is a peripheral device
D) It is hardware item
39. A modern electronic computer is a machine that is meant for
A) Doing quick mathematical calculations
B) Input, storage, manipulation and outputting of data
C) Electronic data processing
D) Performing repetitive tasks accurately
40. When was vacuum tube invented?
A) 1900
B) 1906
C) 1910
D) 1880
41. Which of the following produces the best quality graphics reproduction?
A) Laser printer B) Ink jet printer C) Plotter
D) Dot matrix printer

42. Computers with 80286 microprocessor is
A) XT computer B) AT computers C) PS/2 computer D) None of above
43. An application suitable for sequential processing is
A) Processing of grades
B) Payroll processing
C) Both a and b
D) All of above
44. Which of the following is not processing?
A) arranging
B) manipulating
C) calculating
D) gathering
45. The digital computer was developed primarily in
A) USSR B) Japan C) USA D) UK
46. Software in computer
A) Enhances the capabilities of the hardware machine
B) Increase the speed of central processing unit
C) Both of above
D) None of above
47. Today's computer giant IBM was earlier known by different name which was changes in

1924. What was that name?
A) Tabulator Machine Co.
B) Computing Tabulating Recording Co. C) The Tabulator Ltd.
D) International Computer Ltd.
48. Before a disk drive can access any sector record, a computer program has to provide the record's disk address. What information does this address specify?
A) Track number
B) Sector number C) Surface number D) All of above
49. The arranging of data in a logical sequence is called
A) Sorting
B) Classifying
C) Reproducing
D) Summarizing
50. What is the responsibility of the logical unit in the CPU of a computer?
A) To produce result
B) To compare numbers
C) To control flow of information
D) To do math's works
51. Abacus was the first A) electronic computer B) mechanical computer C) electronic calculator D) mechanical calculator
52. If in a computer, 16 bits are used to specify address in a RAM, the number of addresses will be

A) 216

C) 64K

D) Parity bit

is the:

A) Counter

B) Adder

C) Register

A) Control Unit

D) Storage Unit	
57. Which is used for manufacturing chips?	
A) Bus	
B) Control unit	
C) Semiconductors	
D) A and b only	
58. The value of each bead in heaven is	
A) 1	
B) 3	
C) 5	
D) 7	
59. The first computer introduced in Nepal was	
A) IBM 1400	
B) IBM 1401	
C) IBM 1402	
D) IBM1402	
60. Mnemonic a memory trick is used in which of the following language? A) Machine language B) Assembly language C) High level language D) None of above	
61. Instruction in computer languages consists of A) OPCODE B) OPERAND	

C) B	oth of above
D) N	one of above
62.	Which generation of computer is still under development
A) F	ourth Generation
B) Fi	fth Generation
C) Si	ixth Generation
D) S	eventh Generation
63.	A register organized to allow to move left or right operations is called a
A) C	ounter B) Loader C) Adder
D) S	hift register
64	Which was the most popular first generation computer?
	BM 650
·	BM 360
ŕ	BM 1130
	BM 2700
ے ، رے ا	
65.	Which is considered a direct entry input device?
A) 0	ptical scanner
B) M	louse and digitizer
C) Li	ight pen
D) A	II of the above
66.	A set of information that defines the status of resources allocated to a process is

A) Process control	
B) ALU	
C) Register Unit	
D) Process description	
67. Each set of Napier's bones consisted of rods.	
A) 5	
B) 9	
C) 11	
D) 13	
68. BCD is	
A) Binary Coded Decimal	
B) Bit Coded Decimal C) Binary Coded Digit D) Bit Coded Digit	
69. When was the world's first laptop computer introduced in the	
market and by whom?	
A) Hewlett-Packard, 1980	
B) Epson, 1981	
C) Laplink Traveling Software Inc, 1982	
D) Tandy Model-200, 1985	
70. From which generation operating systems were developed?	
A) First	
B) Second	
C) Third	

D) Fou	urth
71. T	The first firm to mass-market a microcomputer as a personal computer was
A) IBM	1
B) Sup	per UNIVAC C) Radio Shaks
D) Dat	a General Corporation
	How many address lines are needed to address each machine location in a 2048 x 4 bry chip?
A) 10	
B) 11	
C) 8	
D) 12	
73. F	Properly arranged data is called
A) Fiel	ld
B) Wo	rds
C) Info	ormation
D) File	
74. <i>A</i>	A computer consists of A) A central processing unit B) A memory
C) Inp	ut and output unit
D) All	of the above
75. V	Why are vacuum tubes also called valves?
A) Bed	cause they can amplify the weak signals and make them strong

B) Because they can stop or allow the flow of current	
C) Both of above	
D) None of above	
76. John Napier invented Logarithm in	
A) 1614	
B) 1617	
C) 1620	
D) None of above	
77. An integrated circuit is	
A) A complicated circuit	
B) An integrating device	
C) Much costlier than a single transistor	
D) Fabricated on a tiny silicon chip	
78. What type of control pins are needed in a microprocessor to regulate traffic on the bus, in order to prevent two devices from trying to use it at the same time?	
A) Bus control	
B) Interrupts	
C) Bus arbitration	
D) Status	
79. Where as a computer mouse moves over the table surface, the trackball is	
A) Stationary	
B) Difficult to move	

80. Which of the following is used as a primary storage device?

D) Moved in small steps

A) Magnetic drum
B) Hard Disks
C) Floppy
D) All of above
81. Multi user systems provided cost savings for small business because they use a single processing unit to link several
A) Personal computers
B) Workstations
C) Dumb terminals
D) Mainframes
82. What are the three decisions making operations performed by the ALU of a computer?
A) Grater than
B) Less than
C) Equal to
D) All of the above
83. The word processing task associated with changing the appearance of a document is
A) Editing
B) Writing

D) All of above

A) 1617

B) 1620

88. When was Pascaline invented?

93. The term gigabyte refers to

A) 1024 bytes

B) 1024 kilobytes

C) 1024 megabytes		
D) 1024 gigabyte		
94. in which year was UK's premier computing event started?		
A) 1980		
B) 1985		
C) 1986		
D) 1987		
95. Once you load the suitable program and provide required data, computer does not need human intervention. This feature is known as		
A) Accuracy B) Reliability C) Versatility D) Automatic		
96. What is a brand?		
A) The name of companies that made computers		
B) The name of product a company gives to identify its product in market		
C) A name of class to indicate all similar products from different companies		
D) All of above		
97. Machine language is A) Machine dependent B) Difficult to program C) Error prone		
D) All of above		
98. A byte consists of		
A) One bit B) Four bits C) Eight bits		
D) Sixteen bits		

99. Modern Computers are very reliable but they are not
A) Fast
B) Powerful C) Infallible D) Cheap
100. What is the date when Babbage conceived Analytical engine
A) 1642
B) 1837
C) 1880
D) 1850
101. What was the expected feature of fifth generation computers when Japan started FGCS?
A) Operating Systems B) Parallel Processing C) ULSI
D) None of above
102. Which of the following memory medium is not used as main memory system?
A) Magnetic core B) Semiconductor C) Magnetic tape
D) Both semiconductor and magnetic tape
103. The storage subsystem in a microcomputer consists mainly of
or media with varying capacities
A) Memory or video
B) Magnetic or optical C) Optical or memory D) Video or magnetic
104. Programs designed to perform specific tasks is known as
A) system software

B) application software
C) utility programs
D) operating system
105. Computer operators
A) writes computer programs for specific problems
B) operate the device which input and output data from the computer
C) normally require a college degree in computer science
D) all of the above
106. Which of the following is not anti-viruses software?
A) NAV
B) F-Prot C) Oracle D) McAfee
107. What is a compiler?
A) A compiler does a conversion line by line as the program is run
B) A compiler converts the whole of a higher level program code into machine code in one step
C) A compiler is a general purpose language providing very efficient execution
D) None of the above
108. computers are also called personal computers
A) Mainframe Computer
B) Mini Computers C) Micro Computers D) Super Computers
109. Which of the following is not input unit device?

A) scanner B) camera C) plotter D) digitizer
110. Identify the correct statement A) IBM PCs used RISC CPU designs B) Macintosh used CISC CPU design C) IBM used CISC CPU design
D) None of above is true
111. Which of the following statement is false?
A) Mechanical analog computers have existed for thousands of years
B) There are mechanical analog computers and electronic analog computers.
C) All electronic computers are digital computers
D) All of above are false
112. Which of the following require large computers memory?
A) Imaging B) Graphics C) Voice
D) All of Above
113. Which of the following is machine independence program?
A) High level language B) Low level language C) Assembly language D) Machine language
114. When was the first electro-mechanical computer developed?
A) 1880
B) 1990
C) 1944
D) None of above
115. The first machine to successfully perform a long series of arithmetic and logical operations was:

A) EN	IAC B) Mark-I
C) Ana	alytic Engine
D) UN	IVAC-1
116. V	Vhich one is the largest space?
A) kilo	obyte B) petabyte C) terabyte D) gigabyte
117. F	ORTRAN programming language is more suitable for
A) Bus	siness Applications
B) Ma	rketing Applications C) Scientific Applications D) None of the above
118. T	he brain of any computer system is
A) Co	ntrol Unit
B) Arit	thmetic Logic Unit
C) Cei	ntral Processing Unit
D) Sto	orage Unit
119. <i>A</i>	analog computer works on the supply of
A) Co	ntinuous electrical pulses
B) Ele	ctrical pulses but not continuous
C) Ma	gnetic strength
D) No	ne of the above
120. <i>A</i> for it?	An error in software or hardware is called a bug. What is the alternative computer jargon
A) Lee	ech B) Squid C) Slug D) Glitch

121. The advantage of COM are its and
A) Compact size; speed readability
B) Compact size, speed
C) Readability; speed
D) Low cost; readability
122. The BIOS is the abbreviation of .
A) Basic Input Output System B) Best Input Output System C) Basic Input Output Symbol D) Base Input Output System
123. Which printer is very commonly used for desktop publishing?
A) Laser printer
B) Inkjet printer
C) Daisywheel printer
D) Dot matrix printer
124. IBM 1401 is
A) First Generation Computer
B) Second Generation Computer
C) Third Generation Computer
D) Fourth Generation Computer
125. Most of the first generation computers were
A) Special purpose computers B) General purpose computers C) Both of above
D) None of above

126. Floppy disks typically in diameter
A) 3
B) 5.25
C) 8
D) All of above
127. The output quality of a printer is measured by
A) Dot per inch
B) Dot per sq. inch
C) Dots printed per unit time
D) All of above
128. On a PC, how much memory is available to application software?
A) 1024 KB B) 760 KB C) 640 KB D) 560 KB
129. In a computer is capable to store single binary bit.
A) Capacitor B) Flip flop C) Register D) Inductor
130. What does DMA stand for?
A) Distinct Memory Access B) Direct Memory Access C) Direct Module Access
D) Direct Memory Allocation
b) birect Memory Allocation
131. Who invented Integrated Circuits?
A) Jack Kilby

B) Robert Noyce C) Both of above D) None of above
132. Operating system, editors, and debuggers comes under?
A) System Software
B) Application Software
C) Utilities
D) None of the above
133. One computer that is not considered a portable is
A) Minicomputer
B) Laptop computer
C) Notebook computer
D) All of above
134. Which of the following is not an electronic computer?
A) ENIAC B) ABC
C) UNIVAC
D) EDVAC
135. What is the name of the display feature that highlights are of the screen which requires operator attention?
A) Pixel
B) Reverse video C) Touch screen D) Cursor
136. Which is the largest computer?
A) Mainframe Computer

В	3) Mini Computers C) Micro Computers D) Super Computers
1	37. Which of the following are the best units of data on an external storage device?
A	a) Bits
В	3) Bytes
С	c) Hertz
D	O) Clock cycles
1	38. The personal computer industry was started by
А	A) IBM
В	3) Apple
С	c) Compaq
D) HCL
1	39. What is meant by a dedicated computer?
A	A) Which is used by one person only
В	B) Which is assigned one and only one task
С	c) Which uses one kind of software
D) Which is meant for application software
1	40. Which programming languages are classified as low level languages?
А	a) Basic, COBOL, FORTRAN B) Prolog 2, Expert Systems
С	c) Knowledge based Systems
D) Assembly Languages
1	41. What was the main disadvantage of vacuum tubes?

A) They were larger in size
B) They consumed a lot of electricity
C) They produced heat and often burned out
D) The operation cost was high
142. Registers, which are partially visible to users and used to hold conditional, are known as
A) PC
B) Memory address registers C) General purpose register D) Flags
143. Which is not a computer of first generation?
A) ENIAC
B) UNIVAC
C) IBM 360
D) IBM 1401
144. Registers which are partially visible to users and used to hold conditional codes (bits set by the CPU hardware as the result of operations), are known as
A) PC
B) Flags
C) Memory Address Registers
D) General Purpose Registers
145. Who invented vacuum tubes?
A) John Bardeen
B) William Shockley
C) Lee de Forest

D) All of above
146. An approach that permits the computer to work on several programs instead of one is
A) On-line thesaurus
B) Multiprogramming
C) Over lapped processing
D) Outline processor
147. Who suggested Stored Program Concept
A) John Mauchley
B) J.P. Eckert
C) John Neumann
D) Joseph Jacquard
148. The central processing unit (CPU) consists of
A) Input, output and processing
B) Control unit, primary storage, and secondary storage C) Control unit, arithmetic-logic unit and primary storage D) Control unit, processing, and primary storage
149. The notable features like keyboards, monitors, GUI were developed in
A) First generation
B) Second generation
C) Third generation
D) Fourth generation
150. UNIVAC is

C) Bubble
D) Both a & b
155. RJ45 UTP cable has Cables.
A) 2 pair B) 3 pair C) 4 pair D) 5 pair
156. Which of the following is not a valid size of a Floppy Disk?
A) 8?
B) 5 1/4?
C) 3 ½? D) 5 ½?
157. The earliest calculating devices are
A) Abacus
B) Clock
C) Difference Engine
D) None of these
158. Word length of a Personal Computer is
A) 4 bits
B) 8 bits
C) 16 bits
D) 64 bits
159. What was the first computer to perform all calculation using electronics rather than wheels, ratchets, or mechanical switches?
A) Mark I

B) ABC C) Z3
D) None of above
160. A directly accessible appointment calendar is feature of a
resident package
A) CPU
B) Memory
C) Buffer
D) ALU
161. Which unit converts computer data into human readable form?
A) Input unit
B) Output unit
C) ALU
D) Control Unit
162. The full form of ALU is
A) Arithmetic Logic Unit
B) Array Logic Unit
C) Application Logic Unit
D) None of above
163. What produces useful information out of data?
A) Computer

B) Processing

C) Programming

D) none of above
164. Which of the following device was not invented by Babbage?
A) Pascaline
B) Difference Engine
C) Analytical Engine
D) None of above
165. A digital computer did not score over an analog computer in terms of
A) Speed
B) Accuracy
C) Reliability
D) Cost
166. Which number system is usually followed in a typical 32-bit computer?
A) Binary
B) Decimal
C) Hexadecimal
D) Octal
167. A computer has very low failure rate because it uses electronic components. It produces very consistent results. This is highlighted by which of the feature of computer?
A) Accuracy
B) Reliability C) Versatility D) Automatic
168. A paper printout of a document is known as

A) Softcopy output
B) Hardcopy output
C) Permanent Output
D) All of above
169. Which electronic component was made out of semiconductor material?
A) Vacuum tubes
B) Transistors
C) ICs
D) All of above
170. The act of retrieving existing data from memory is called
A) Read-out
B) Read from
C) Read
D) All of above
171. Which part of the computer is used for calculating and comparing?
A) Disk unit
B) Control unit
C) ALU
D) Modem
172. ABC is a
A) Special purpose computer
B) General purpose computer

C) All Purpose Computer
D) None of above
173. The computer code for the interchange of information between terminals is
A) ASCII
B) BCD
C) EBCDIC
D) All of above
174. When was the X window system born?
A) 1984
B) 1989
C) 1988
D) 1990
175. What is the first stage in software development?
A) Specification and design
B) Testing
C) System Analysis
D) Maintenance
176. Which of the following is valid statement?
A) Data in itself is useless unless it is processed
B) The data that is processed is called a program
C) The data which is not yet processed is information
D) Information is processed by computer to generate data.

177. The Second Generation Computer was based on A) Vacuum Tube B) Silicon Chips C) Transistor D) Bio Chips 178. EBCDIC stands for A) Extended Binary Coded Decimal Interchange Code B) Extended Bit Code Decimal Interchange Code C) Extended Bit Case Decimal Interchange Code D) Extended Binary Case Decimal Interchange Code 179. Personnel who design, program, operates and maintains computer equipment refers to A) Console-operator B) Programmer C) Peopleware D) System Analyst 180. IBM System/360 is A) Mainframe Computer B) Mini Computers C) Micro Computers D) None of above 181. A system is A) an integration of different units so as to achieve an objective B) input unit C) input and output unit

D) input, output and storage units
182. Which of the following programming language started from second generation?
A) Cobol B) BASIC C) C
D) LISP
183. The translator program used in assembly language is called
A) Compiler
B) Interpreter C) Assembler D) Translator
184. EEPROM stands for
A) Electrically Erasable Programmable Read Only Memory
B) Easily Erasable Programmable Read Only Memory
C) Electronic Erasable Programmable Read Only Memory
D) None of the above
185. Regarding data, computers are very good at
A) store
B) Processing
C) retrieve
D) All of above
186. Bit map terminal
A) support display containing multiple windows
B) require considerable amount of video RAM
C) requires tremendous amount of copying and hence low performance

D) all of above	
187. First generation computers used	for memory
A) vacuum tubes	
B) silicon chips	
C) magnetic drum	
D) RAM	
188. Which of the following memories all	ows simultaneous read and write operations?
A) ROM B) RAM	
C) EPROM	
D) None of above	
189. EPROM can be used for	
A) Erasing the contents of ROM	
B) Reconstructing the contents of ROM	
C) Erasing and reconstructing the conten	ts of ROM D) Duplicating ROM
190. ENIAC uses	
A) Decimal Numbering System	
B) Octal Numbering System	
C) Binary Numbering System	
D) Hexadecimal Numbering System	
191. A term associated with the comparis	son of processing speeds of different computer

A) EFTS

B) MPG
C) MIPS D) CPS
192. which of the following is problem oriented language?
A) High level language
B) Machine language C) Assembly language D) Low level language
193. A 32 bit microprocessor has the word length equal to
A) 2 byte B) 32 byte C) 4 byte D) 8 byte
194. The term GIGO is related to
A) Accuracy
B) Reliability C) Versatility D) Automatic
195. Web cam is an
A) input unit device B) output unit device C) processing device
D) Input and Output device
196. Bit stands for A) Binary digits B) bit of system C) a part of byte D) All of above
197. Access time is
A) seek time + latency time
B) seek time
C) seek time ? latency time
D) latency time

198. Which device can understand difference between data &
programs?
A) Input device
B) Output device
C) Memory
D) Microprocessor
199. Which of the following is a read only memory storage device?
A) Floppy Disk
B) CD-ROM
C) Hard Disk
D) None of these
200. Symbolic logic was discovered by
A) George Boole
B) Herman Hollerith
C) Van Neumann
D) Basic Pascal
201. Which of the following is not valid statement?
A) Hard is referred to mean something temporary
B) Hard is used to mean something tangible
C) Soft is used to mean something permanent
D) Soft is used to mean something tangible
202. Digital devices are

A) Digital Clock
B) Automobile speed meter
C) Clock with a dial and two hands
D) All of them
203. Primary memory stores
A) Data alone
B) Programs alone
C) Results alone
D) All of these
204. After copying the content how many times can you paste?
A) 1
B) 16
C) 32
D) Many
205. WAN stands for
A) Wap Area Network B) Wide Area Network C) Wide Array Net
D) Wireless Area Network
206. An error in computer data is called
A) Chip B) Bug C) CPU
D) Storage device

207. The instructions for starting the computer are house on
A) Random access memory
B) CD-Rom
C) Read only memory chip
D) All of above
208. 1 nibble equals to
A) 1 bits B) 2 bits C) 4 bits D) 8 bits
200 Deufensted menon word as input of autout modic is longues as
209. Perforated paper used as input of output media is known as
A) paper tapes
B) magnetic tape
C) punched papers tape
D) card punch
210. The secondary storage devices can only store data but they cannot perform
A) Arithmetic Operation
B) Logic operation
C) Fetch operations
D) Either of the above
211. Which American computer company is called Big Blue?
A) Microsoft
B) Compaq Corp
C) IBM
D) Tandy Svenson

was brought in to calculate census data.

A) IBM 1400
B) IBM 1401
C) ICL 2950
D) None of above
213. Who is the inventor of ABC Computer?
A) John v. Atanasoff
B) Clifford Berry C) Both of above D) None of above
214. Which of the following is the largest unit?
A) data
B) field
C) record
D) database file
215. Find out who is not the inventor of transistors among following name
A) John Burdeen
B) William Shockley C) Walter Brattain D) Lee de Forest
216. Which of the following is not true for a magnetic disk?
A) It is expensive relative to magnetic tape
3) It provides only sequential access to stored data
C) Users can easily update records by writing over the old data
D) All of above

212. It was in 2028 BS the

217. A disadvantage of the laser printer is
A) It is quieter than an impact printer
B) It is very slow
C) The output is of a lower quality
D) None of the above
218. The most commonly used standard data code to represent alphabetical, numerical and punctuation characters used in electronic data processing system is called
A) ASCII
B) EBCDIC C) BCD
D) All of above
219. Which access method is used to access cassette tape?
A) Direct
B) Sequential
C) Both of the above
D) None of the above
220. A Compiler is
A) a combination of computer hardware
B) a program which translates from one high-level language to another
C) a program which translates from one high-level to a machine level language
D) None of these
221. Which unit holds data temporarily?

A) Input unit
B) Secondary storage unit
C) Output Unit
D) Primary Memory Unit
222. The computer size was very large in
A) First Generation
B) Second Generation
C) Third Generation
D) Fourth Generation
223. A name or number used to identify storage location devices?
A) A byte
B) A record
C) An address
D) All of above
224. Which of the following is not computer language?
A) High level language
B) Medium level language
C) Low level language
D) All of the above
225. Reading data is performed in magnetic disk by
A) Read/write leads
B) Sectors

C) Track
D) Lower surface
226. IBM 7000 digital computer A) Belongs to second generation B) Uses VLSI
C) Employs semiconductor memory
D) Has modular constructions
227. Which of the following is not electro-mechanical computer?
A) Mark I B) ABC
C) Zuse
D) UNIVAC
228. The term 'computer' is derived from
A) Greek language
B) Sanskrit language
C) Latin language
D) German language
229. Which statement is valid about magnetic tape?
A) It is a plastic ribbon
B) It is coated on both sides with iron oxide
C) It can be erased and reused
D) All of above
230. Which of the following is first generation computer?

C) CDC 1604
D) ICL 2950
231. A hard copy would be prepared on a
A) Line printer
B) Dot matrix Printer
C) Typewriter terminal
D) All of the above
232. The term GIGO is relate to which characteristics of computers?
A) Speed
B) Automatic C) Accuracy D) Reliability
233. Which of the following programming language were used in first generation computers?
A) Machine language B) Assembly language C) Both of above
D) None of above
234. To locate a data item for storage is
A) Field
B) Feed
C) Database
D) Fetch
235. Who used punched cards practically for the first time in the history of computers?

A) Charles Babbage
B) Dr. Herman Hollerith
C) Howard Aikin
D) Joseph Jacquard
236. Hard disk is coated in both sides with
A) Magnetic metallic oxide
B) Optical metallic oxide
C) Carbon layer
D) All of the above
237. Which of the following term means to reckon?
A) putare
B) com
C) computa
D) computar
238. An input /output device at which data enters or leaves a computer system is
A) Keyboard B) Terminal C) Printer
D) Plotter
b) Flottel
239. Which of the following is first generation of computer
A) EDSAC
B) IBM-1401
C) CDC-1604
D) ICL-2900

240. A name or number used to identify a storage location is called
A) A byte
B) A record
C) An address
D) All of above
241. Computer professionals working in a computer centre are
A) Software B) Firmware C) Hardware
D) Humanware
242. The first general purpose electronic computer in the world was
A) UNIVAC B) EDVAC C) ENIAC
D) All of above
243. The contents of information are stored in
A) Memory data register
B) Memory address register
C) Memory arithmetic registers
D) Memory access register
244. Which of the following is correct full form of BCD?
A) Binary Coded Decimal
B) Bit Coded Decimal C) Binary Coded Digit D) Bit Coded Digit
245. Which was the world's first microcomputer that used Intel

80386 microprocessor chip?
A) IBM PS/2
B) HP-9830
C) DeskPro-386
D) IBM-360
246. The qualitative or quantitative attribute of a variable or set of variables is termed as
A) data
B) information
C) both of above
D) none of above
247. Main storage is also called
A) Accumulator B) Control Unit C) Register Unit D) Memory
248. Which of the following are (is) considered to be video component?
A) Resolution B) Color depth C) Refresh rate
D) All of the alcove
249. For what Antikyathera was used?
A) For counting
B) For Calculating tax collection
C) For calculating astronomical positions
D) For calculating firing weapons
250. Memory unit is one part of

B) Control unit
C) Output device
D) Central Processing Unit
251. Microprocessors can be used to make
A) Computer
B) Digital systems
C) Calculators
D) All of the above
252. Which statement is valid about computer program?
A) High level languages must be converted into machine language to execute
B) High level language programs are more efficient and faster to execute
C) It is more difficult to identify errors in high level language program than in low level programs
D) All of above
253. By programmable machine we mean
A) computers
B) modern television
C) washing machines
D) anything that can be set to perform different tasks with suitable programs
254. Which of the following is a secondary memory device?
A) Keyboard

256. One of the popular mass storage device is CD ROM. What does

A) Computers are 100% accurate but it can suffer from GIGO

C) Computer is never tired and does not suffer from boredom

B) Format Translation C) Formula Translation D) Floppy Translation

B) Computers are reliable because they use electronic component which have very low failure

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B) Disk

C) ALU

D) EPROM

CD ROM stand for?

D) All of above

258. FORTRAN is

A) File Translation

A) Compactable Read Only Memory

B) Compact Data Read Only Memory

D) Compact Disk Read Only Memory

257. Identify the true statement

C) Compactable Disk Read Only Memory

259. The programs which are as permanent as hardware and stored in ROM is known as
A) Hardware B) Software C) Firmware D) ROM ware
260. Which of the following memories must be refreshed many times per second?
A) Static RAM
B) Dynamic RAM C) EPROM
D) ROM
261. What do you call the translator which takes assembly language program as input & produce machine language code as output?
A) Compiler
B) Interpreter C) Debugger D) Assembler
262. Serial access memories are useful in applications where
A) Data consists of numbers
B) Short access time is required
C) Each stored word is processed differently
D) Data naturally needs to flow in and out in serial form
263. In mode, the communication channel is used in both directions at the same time
A) Full-duplex
B) Simplex
C) Half-duplex
D) None of the above
264. Who invented Slide Rules?

A) John Napier
B) William Oughtred C) Gottfried Leibnitz D) Blaise Pascal
265. The proper definition of a modern digital computer is
A) An electronic automated machine that can solve problems involving words and numbers
B) A more sophistic and modified electronic pocket calculator
C) Any machine that can perform mathematical operations
D) A machine that works on binary code
266. Memory is made up of
A) Set of wires
B) Set of circuits
C) Large number of cells
D) All of these
267. Which of the following is the most powerful computers?
A) Mainframe Computer
B) Mini Computers C) Micro Computers D) Super Computers
268. Which of the printers used in conjunction with computers uses dry ink powder?
A) Daisy wheel printer
B) Line printer
C) Laser printer
D) Thermal printer
269. What is the path from which data flow in a computer system is known as

A) Car
B) Bus
C) Truck
D) Road
270. Which term is used to describe RAM?
A) Dynamic RAM (DRAM) B) Static RAM (SRAM)
C) Video RAM (VRAM) D) All of the above
271. In which year was chip used inside the computer for the first time?
A) 1964
B) 1975
C) 1999
D) 1944
272. Assembly language started to be used from
A) first generation computers
B) second generation computers
C) third generation computers
D) fourth generation computers
273. Which technology is more reliable?
A) Mechanical
B) Electro-Mechanical
C) Electronic
D) For reliability it does not matter. So all of above are reliable

274. Which of the following is not an XT microprocessor?
A) 8006
B) 8086
C) 8088
D) None of above
275. Hard disk is coated in both side with
A) Magnetic metallic oxide
B) Optical metallic oxide
C) Carbon layer
D) All of the above
276. ASCII stands for
A) American Stable Code for International Interchange
B) American Standard Case for Institutional Interchange
C) American Standard Code for Information Interchange
D) American Standard Code for Interchange Information
277. Raw facts and figures about any particular topic are
A) Information
B) facts
C) data
D) none of above

278. A computer can solve more than one kind of problem. This is related to which of the following characteristics?
A) Accuracy
B) Reliability
C) Versatility
D) Automatic
279. From which generation computers the printers were used?
A) first
B) second
C) third
D) fourth
280. How many symbols exist in Baudot code?
A) 32
B) 116
C) 58
D) 76
281. Following IC chip integrates 100 thousands electronic components per chip
A) SSI B) MSI
C) LSI D) VLSI
282. An application program that helps the user to change any number and immediately see the result of that change is
A) Desktop publishing program
B) Database

284. What is the name of the new color laptop computer which is powered by a 386 processor at 33 MHz and is built by Epson? A) AX3/33
B) NEC-20
C) Magnum 2000
D) HCL-3000
285. In analog computer
A) Input is first converted to digital form
B) Input is never converted to digital form
C) Output is displayed in digital form
D) All of the above
286. Which of the following computer is not invented by J.P. Eckert and John Mauchly?
A) ENIAC B) EDVAC C) UNIVAC D) EDSAC
287. When was the company named IBM?
A) 1914
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C) 1855

D) 1870

B) 1924

C) 1975

D) DVDs

A) Arithmetic Logic Unit

C) Application Logic Unit

B) Array Logic Unit

D) None of above

called a/an

B) CPU

A) Interpreter

291. A computer program that converts an entire program into machine language at one time is

C) Compiler
D) Simulator
292. When did arch rivals IBM and Apple Computers Inc. decide to join hands?
A) 1978
B) 1984
C) 1990
D) 1991
293. The purpose of vacuum tube was to NOT act like
A) an amplifier
B) a switch
C) a router
D) None of above
294. As compared to diskettes, the hard disks are
A) More expensive B) More portable C) Less rigid
D) Slowly accessed
295. Which of the following is the most quickly accessible storage?
A) RAM
B) Registers
C) Disks
D) Pen Drive
296. The octal equivalence of 111010 is

A) 81
B) 72
C) 71
D) None of above
297. Excessive parallel processing is related to
A) First generation
B) Fourth generation C) Fifth Generation D) Third generation
298. Second generation computers were developed during
A) 1949 to 1955
B) 1956 to 1965
C) 1965 to 1970
D) 1970 to 1990
299. What do you call a single point on a computer screen?
A) Cell
B) Element
C) Pixel
D) Bit
300. Mostly which of the following device is used to carry user files?
A) Floppy Disk
B) Hard Disk
C) RAM

D) CDROM
301. Which of the following computer implemented binary numbers, perform calculations using electronics and implemented separate computation and memory for the first time?
A) Mark I B) ABC
C) Z3
D) None of above
302. FORTRAN is a programming language. What does FORTRAN
stand for?
A) File Translation
B) Format Translation C) Formula Translation D) Floppy Translation
303. Which of the following memories needs refreshing?
A) SRAM B) DRAM C) ROM
D) All of above
304. Can you tell what passes into and out from the computer via its ports?
A) Data
B) Bytes
C) Graphics
D) Pictures
305. An output device that uses words or messages recorded on a magnetic medium to produce audio response is
A) Magnetic tape
B) Voice response unit

C) Voice recognition unit
D) Voice band
306. Which of the items below are considered removable storage media?
A) Removable hard disk cartridges
B) (Magneto-optical) disk C) Flexible disks cartridges D) All of the above
307. Which of the following is not purely output device?
A) Screen B) Printer C) Speaker D) Plotter
308. Who developed a mechanical device in the
17th century that could add, subtract, multiple,
divide and find square roots?
A) Napier
B) Babbage
C) Pascal
D) Leibniz
309. The first Macintosh computer was from
A) First generation
B) Second generation
C) Third generation
D) Fourth generation
310. Which of the following is not a form of data?
A) numbers and characters

C) sound
D) none of above
311. Which is not a computer classification?
A) mainframe
B) maxframe
C) mini
D) notebook
312. The control unit of a microprocessor
A) Stores data in the memory
B) Accepts input data from keyboard C) Performs arithmetic/logic function D) None of above
313. Which of the following is internal memory?
A) Disks
B) Pen Drives
C) RAM D) CDs
314. Which operation is not performed by computer
A) Inputting B) Processing C) Controlling
D) Understanding
315. Floppy disks which are made from flexible plastic material are also called?
A) Hard disks
B) High-density disks

A) File

A) Mnemonics

C) Gray codes

B) Symbolic code

D) Opcode
320. Which language is directly understood by the computer without translation program?
A) Machine language
B) Assembly language
C) High level language
D) None of above
321. On which aspect the analog computers are better than digital?
A) Speed
B) Accuracy C) Reliability D) Automatic
322. Which of the following processors use RISC technology?
A) 486dx
B) Power PC C) 486sx
D) 6340
323. Which of the following machine was not invented by Charles
Babbage?
A) Tabulating Machine
B) Analytical Engine C) Difference Engine D) Both C and D
324. How many numbers could ENIAC store in its internal memory
A) 100
B) 20

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C) Desktop PCs

D) None of above
330. The value of each bead in earth is
A) 1
B) 3
C) 5
D) 7
331. When did John Napier develop logarithm?
A) 1416
B) 1614
C) 1641
D) 1804
332. Which of the following terms is the most closely related to main memory?
A) Non volatile
B) Permanent C) Control unit D) Temporary
333. Which was the world's first minicomputer and when was it
introduced?
A) PDP-I, 1958
B) IBM System/36, 1960
C) PDP-II, 1961
D) VAX 11/780, 1962
334. A group of magnetic tapes, videos or terminals usually under the control of one master is

A) Cylinder B) Surface C) Track
D) Cluster
335. The word length of a computer is measured in
A) Bytes
B) Millimeters
C) Meters
D) Bits
336. What type of memory is not directly addressable by the CPU and requires specia softw3are called EMS (expanded memory specification)?
A) Extended B) Expanded C) Base
D) Conventional
337. Which unit holds data permanently?
A) Input unit
B) Secondary storage unit
C) Output Unit
D) Primary Memory Unit
338. Before a disk can be used to store data. It must be
A) Formatted
B) Reformatted
C) Addressed
D) None of the above

339. Computer system comprises of major units
A) input unit, output unit, control unit
B) input unit, output unit, control unit and storage
C) input unit, output unit, central processing unit and storage unit
D) input, output and storage units
340. The first general purpose electronic digital computer in the world was
A) UNIVAC B) EDVAC C) ENIAC
D) All of above
341. Signals can be analog or digital and a computer that processes the both type of signals is known as
A) Analog computer B) Digital Computer C) Hybrid Computer
D) Mainframe Computer
342. High level language is also called
A) Problem oriented language
B) Business oriented language
C) Mathematically oriented language
D) All of the above
343. Human beings are referred to as Homosapinens, which device is called Sillico Sapiens?
A) Monitor
B) Hardware
C) Robot
D) Computer

344. Which of the following file organization is most efficient for a file with a high degree of file activity?
A) Sequential
B) ISAM C) VSAM
D) B-Tree Index
345. Which of the following is associated with error detector?
A) Odd parity bit
B) Even parity bit
C) Both of the above
D) None of above
346. Magnetic tape can serve as
A) Secondary storage media
B) Output media
C) Input media
D) All of the above
347. Which company is the biggest player in the microprocessor industry?
A) Motorola
B) IBM C) Intel D) AMD
348. The first digital computer built with IC chips was known as
A) IBM 7090

B) Apple ? 1
C) IBM System / 360
D) VAX-10
349. EBCDIC can code up to how many different characters?
A) 256
B) 16
C) 32
D) 64
350. MICR stands for
A) Magnetic Ink Character Reader
B) Magnetic Ink Code Reader C) Magnetic Ink Cases Reader D) None
351. Number crunchier is the informal name for
A) Mini computer B) Super computer C) Microcomputer
D) Mainframe computer
352. RATS stand for
A) Regression Analysis Time Series B) Regression Analysis Time Sharing C) Real Analysis Series
D) All of above
353. Which technology is used in Compact disks?
A) Mechanical
B) Electrical

C) Electro Magnetic
D) Laser
354. Different components of the motherboard of a PC unit are linked together by sets of parallel electrical conducting lines. What are these lines called?
A) Conductors
B) Buses
C) Connectors
D) Consecutives
355. Which is the first electronic digital computer?
A) ENIAC B) MARK I C) Z3
D) ABC
356. Which of the following is a storage device?
A) Tape
B) Hard Disk
C) Floppy Disk
D) All of the above
357. The metal disks, which are permanently housed in, sealed and contamination free containers are called
A) Hard disks
B) Floppy disk
C) Winchester disk
D) Flexible disk

358. A computer program that converts an entire program into machine language is called a/an
A) Interpreter
B) Simulator
C) Compiler
D) Commander
359. Intel corporation produces chips for which computers?
A) IBM PCs
B) Apple/Macintosh PCs
C) Both of above
D) None of above
360. The first microprocessor built by the Intel corporation was called
A) 8008
B) 8080
C) 4004
D) 8800
361. Which of the following is not a class of computers based on size?
A) Mainframe Computers
B) Mini Computers C) Micro Computers D) Super Computers
362. Who invented EDSAC?
A) John v. Neumann
B) J.P. Eckert and John Mauchley
C) Maurice Wilkes

D) Howard Aiken
363. EEPROM stands for
A) Electrically Erasable Programmable Read Only Memory
B) Electronic Erasable Programmable Read Only Memory
C) Easily Erasable Programmable Read Only Memory
D) Easily Erasable Programmable Read Only Memory
364. Which of the following is a class of computers based on model?
A) Digital Computer
B) Hybrid Computers C) Analog Computers D) AT Computers
365. What are the computers called that performs calculations and comparisons usually in the binary numbering system? A) Analog Computers
B) Digital Computers
C) Hybrid Computers
D) None of above
366. ASCII stands for
A) American Standard Code for Information Interchange
B) American Scientific Code for International Interchange C) American Standard Code for Intelligence Interchange D) American Scientific Code for Information Interchange
367. The data recording format in most of the modern magnetic tape is
A) 7-bit ASCII
B) 7-bit EBCDIC C) 8-bit ASCII
D) 8-bit EBCDIC

- 368. Why ABC computer is called so?
- A) Because it was developed by Atanasoff and Berry
- B) Because it was thought to be the first computer so named with first alphabets of English
- C) Both of above are the reason to name the computer ABC D) None of above are true
- 369. Who designed the first electronics computer? ENIAC/
- A) Von Neumann
- B) Joseph M Jacquard
- C) J. P. Eckert and J. W. Mauchly
- D) All of above
- 370. Central Processing Unit is combination of
- A) Control and storage
- B) Control and output unit
- C) Arithmetic logic and input unit
- D) Arithmetic logic and control unit
- 371. IBM 1401 computer was
- A) Mainframe Computer
- B) Mini Computers C) Micro Computers D) None of above
- 372. Time during which a job is processed by the computer is
- A) Delay times
- B) Real time

C) Execution time
D) Down time
373. CD-ROM stands for
A) Compactable Read Only Memory
B) Compact Data Read Only Memory
C) Compactable Disk Read Only Memory
D) Compact Disk Read Only Memory
374. Which unit converts user data into machine readable form?
A) Input unit
3) Output unit
C) ALU
O) Control Unit
375. Which unit is known as nerve center of computer?
A) ALU B) CU
C) Memory
D) Registers
376. What does the disk drive of a computer do?
A) Rotate the disk
B) Read the disk
C) Load a program from the disk into the memory
D) Both b and c

382. IMB launched its first personal computer called IBM-PC in

1981. It had chips from Intel, disk drives from Tandon, operating system from Microsoft, the printer from Epson and the application software from everywhere. Can you name the country which contribute

- A) India
- B) China
- C) Germany
- D) Taiwan

383. Which statement is valid about interpreter?

- A) It translates one instruction at a time
- B) Object code is saved for future use
- C) Repeated interpretation is not necessary
- D) All of above

384. Easily reloctable language is

- A) Machine language
- B) Assembly language
- C) High level language
- D) Medium level language

385. Which of the following memories needs refresh?

- A) SRAM B) DRAM C) ROM
- D) All of above
- 386. Through which device the main components of the computer communicate with each

other?
A) Keyboard
B) System Bus
C) Monitor
D) Memory
387. What type of device is computer keyboard?
A) Memory
B) Output C) Storage D) Input
388. Which is the limitation of high level language?
A) Lower efficiency
B) Machine dependence
C) machine level coding
D) None of above
389. An example of a digital device can be
A) Digital clock
B) Automobile speed meter
C) Clock with a dial and two hands
D) All of the above
390. Which of the following is not true?
A) Transistors are much smaller
B) Transistors produce low heat

C) Transistors were less reliable

D) Transistors were used in radios and other electronic devices
391. A characteristic of card systems is:
A) Slowness in processing data
B) Using cards as records of transactions
C) Needing a larger DP staff
D) All of the above
392. The full form of EEPROM is
A) Electrically Erasable Programmable Read Only Memory
B) Easily Erasable Programmable Read Only Memory
C) Electronic Erasable Programmable Read Only Memory
D) None of the above
393. The original ASCII code used_bits of each byte, reserving that last bit for error checking
A) 5
B) 6
C) 7
D) 8
394. A computer programmer
A) Does all the thinking for a computer
B) Can enter input data quickly
C) Can operate all types of computer equipments
D) Can draw only flowchart

- 395. Fifth generation computer is also known as
- A) Knowledge information processing system
- B) Very large scale integration (VLSI) C) Both of above
- D) None of above
- 396. The commonly used standard data code to represent alphabetical, numerical and punctuation characters used in electronic data processing system is called
- A) ASCII
- B) EBCDIC C) BCD
- D) All of above
- 397. Which of the following have low failure rate?
- A) mechanical devices
- B) electronic devices
- C) electro-mechanical devices
- D) None of above
- 398. Which of the following memories need refresh?
- A) SRAM B) DRAM C) ROM
- D) All of the above
- 399. A typical personal computer used for business purposes would have of RAM.
- A) 4 KB B) 16 K C) 64 K D) 256 K
- 400. The ALU of a computer normally contains a number of high speed storage element called

A) Semiconductor memory
B) Registers
C) Hard disks
D) Magnetic disk
401. Which was the computer conceived by Babbage?
A) Analytical Engine
B) Arithmetic Machine
C) Donald Kunth
D) All of above
402. The processing speed of first generation computers was
A) milliseconds B) microseconds C) nanoseconds D) picoseconds
403. Model 5100 was in 1957.
A) The first PC built by IBM
B) The first PC built by Apple
C) The first PC built by Motorola
D) The first PC built by Intel
404. VGA is
A) Video Graphics Array
B) Visual Graphics Array
C) Volatile Graphics Array

D) Video Graphics Adapter

405. A kind of scanner MICR is the short form of
A) Magnetic Ink Character Reader
B) Magnetic Ink Code Reader
C) Magnetic Ink Cases Reader
D) None
406. Which of the following is not a class based on size?
A) Mainframe Computer
B) Micro Computer
C) Mini Computer
D) Digital Computer
407. Which 8-bit chip was used in many of today's TRS-80 computers?
A) Z-8000
B) Motorola 6809
C) Z-8808
D) Z-80
408. Which of the following disk is fixed disk?
A) Hard Disks
B) Flash Disks
C) Blu-Ray Disks
D) DVDs
409. Which of the following professions has not been affected by personal computers?
A) Medical

B) Clerical and law
C) Accounting
D) None of the above
410. The word Abacus is derived from Abax, a word from
A) Latin language
B) Greek Language C) Sanskrit language D) Ancient Egypt
411. In latest generation computers, the instructions are executed
A) Parallel only
B) Sequentially only
C) Both sequentially and parallel
D) All of above
412. Which of the following memory medium is not used as main memory system?
A) Magnetic core
B) Semiconductor C) Magnetic tape D) Both a and b
413. An online backing storage system capable of storing larger quantities of data is
A) CPU
B) Memory
C) Mass storage
D) Secondary storage
414. A kind of serial dot-matrix printer that forms characters with magnetically-charged ink sprayed dots is called

A) Laser printer
B) Ink-jet printer C) Drum printer D) Chan printer
415. Which of the following does not affect the resolution of a video display image?
A) Bandwidth
B) Raster scan rage
C) Vertical and horizontal lines of resolution
D) Screen size
416. Which of the following printing devices an output composed of a series of data?
A) Wire matrix printer
B) Band printer
C) Wang image printer
D) Both a and c
417. Which of the following is an example of fifth generation computer?
A) PIM/m
B) ICL 2950
C) IBM 1401
D) None of above
418. Magnetic disks are the most popular medium for
A) Direct access
B) Sequential access
C) Both of above

D) None of above
419. Which of the following is not a third generation computer?
A) IBM 360
B) IBM 1401
C) PDP-8
D) HP2115
420. The number of records contained within a block of data on magnetic tape is defined by the
A) Block definition
B) Record contain clause
C) Blocking factor
D) Record per block
421. Mark I is also known as
A) American Sequence Controlled Calculator
B) Automatic Sequence Calculating Controller C) American Sequence Controlled Computer D) Automatic Sequence Controlled Calculator
422. Which of the following registers is loaded with the contents of the memory location pointed by the PC?
A) Memory address registers
B) Memory data registers
C) Instruction register
D) Program counter
423. Which of the following are the cheapest memory devices in terms of Cost/Bit?

A) Semiconductor memories
B) Magnetic Disks C) Compact Disks D) Magnetic Tapes
424. MIS is designed to provide information needed for effective decision making by?
A) Consumers
B) Workers
C) Foremen
D) Managers
425. Which is valid statement
A) 1 KB = 1024 Bytes
B) 1 MB = 1024 Bytes C) 1 KB = 1000 Bytes D) 1 MB = 1000 Bytes
426. Latency time is
A) Time to spin the needed data under head
B) Time to spin the needed data under track
C) Time to spin data under sector
D) All of above
427. Who built the first Mechanical Calculator
A) Joseph Marie Jacquard
B) John Mauchly
C) Blaise Pascal
D) Howard Aiken
428. The most important advantage of a video disk is

A) Compactness
B) Potential capacity
C) Durability
D) Cost effectiveness
429. Which of the following generation computers had expensive operation cost?
A) First
B) Second
C) Third
D) Fourth
430. An IBM system/38 represents the computer class of:
A) Small-scale computer
B) Medium-scale computer
C) Large-scale computer
D) Super computer
431. Another word for a daisy wheel printer
A) Petal printer
B) Golf ball printer
C) Laser printer
D) Line printer
432. Cursor is a
A) Pixel
B) Thin blinking line C) Pointing device D) None of these

433. Which device is used to backup the data?
A) Floppy Disk
B) Tape
C) Network Drive
D) All of the above
434. Which of the following printers are you sure will not to use if your objective is to print on multi carbon forms?
A) Daisy wheel B) Dot matrix C) Laser
D) Thimble
435. Which of the following items are examples of storage devices?
A) Floppy / hard disks
B) CD-ROMs
C) Tape devices
D) All of the above
436. ASCII and EBCDIC are the popular character coding systems.
What does ASCII stand for?
A) American Stable Code for International Interchange B) American Standard Case for Institutional Interchange C) American Standard Code for Information Interchange D) American Standard Code for Interchange Information
437. Which computers are used as servers for any medium sized organizations?
A) Mainframe Computer
B) Mini Computers C) Micro Computers D) Super Computers

438. Slide Rules was invented in
A) 1614
B) 1617
C) 1620
D) None of above
439. A normal CD-ROM usually can store up to data?
A) 680 KB
B) 680 Bytes
C) 680 MB D) 680 GB
440. Which of the following required large computer memory?
A) Imaging B) Graphics C) Voice
D) All of above
441. Which was the computer conceived by Babbage?
A) Analytical engine
B) Arithmetic machine
C) Donald Knuth
D) All of above
442. The lower deck of an abacus is known as
442. The lower deck of an abacus is known as A) heaven

447. Which of the following programming language started from second generation?

D) CD-ROM disk

A) LISP B) C

C) QBASIC
D) FORTRAN
448. Which one of the following input device is user- programmable?
A) Dumb terminal B) Smart terminal C) VDT
D) Intelligent terminal
449. Floppy disks typically in diameter
A) 3?
B) 5.25? C) 8?
D) All of above
450. Current SIMMs have either or connectors (pins)
A) 9 or 32
B) 30 or 70
C) 28 or 72
D) 30 or 72
451. Dot-matrix is a type of
A) Tape
B) Printer
C) Disk
D) Bus
452. Which is not consisted in a processor
A) ALU

B) CU
C) Memory
D) Registers
453. IBM 1401 is the first computer to enter in Nepal. It belonged to
A) First Generation
B) Second Generation
C) Third Generation
D) Froth Generation
454. The Third Generation Computer was made with .
A) Vacuum Tube
B) Discrete Components
C) IC
D) Bio Chips
455. Which of the following are the two main components of the
CPU?
A) Control Unit and Registers
B) Registers and Main Memory
C) Control unit and ALU D) ALU and bus
456. Fifth generation computer is also known as
A) Knowledge information processing system
B) Very large scale integration
C) Both of above

D) None of above
457. Second Generation computers were developed during
A) 1949 to 1955
B) 1956 to 1965
C) 1965 to 1970
D) 1970 to 1990
458. What is the name of the computer terminal which gives paper printout?
A) Display screen
B) Soft copy terminal C) Hard copy terminal D) Plotter
459. Programs are executed on the basis of a priority number in a
A) Batch processing system
B) Multiprogramming
C) Time sharing
D) None of these
460. When was Apple Macintosh II microcomputer introduced in the market?
A) 1964
B) 1970
C) 1983
D) 1986
461. When was the world's first laptop computer introduced in the market and by whom?
A) Hewlett-Packard

B) Epson, 1981

C) Laplink traveling software In1982
D) Tandy model-2000, 1985
462. Today's computer giant IBM was earlier known by different
name which was changed in 1924. What was that name?
A) Computer Tabulating Recording Co.
B) The Tabulator Ltd.
C) International Computer Ltd.
D) None of above
463. The personnel who deals with the computer and its management put together are called
A) Software
B) Human ware
C) Firmware
D) Hardware
464. Which of the following is input device?
A) scanner B) speaker C) monitor D) projector
465. Which of the following is true?
A) Fields are composed of bytes
B) Records are composed of fields
C) Fields are composed of characters
D) All of above

466. Who built the world's first electronic calculator using	
telephone relays, light bulbs and batteries?	
A) Claude Shannon	
B) Konrard Zues	
C) George Stibits	
D) Howard H. Aiken	
467. WAN is a most used abbreviation in Networking, what is its full form?	
A) WAP Area Network	
B) Wide Area Network	
C) Wide Array of Network	
D) Wireless Access Network	
468. In which language is source program written?	
A) English	
B) Symbolic C) High level D) Temporary	
469. Which of the following is correct acronym of VGA?	
A) Video Graphics Array	
B) Visual Graphics Array	
C) Volatile Graphics Array	
D) Video Graphics Adapter	
470. A song being played on computer speaker is	
A) hard output	

B) soft output
C) both hard and soft output
D) neither hard nor soft output
471. In the IBM PC-At, what do the words AT stand for
A) Additional Terminals B) Advance technology C) Applied technology
D) Advanced terminology
472. Size of the primary memory of a PC ranges between
A) 2KB to 8KB
B) 64KB & 256KB C) 256KB & 640KB D) None of these
473. What is the number of read-write heads in the drive for a 9- trac magnetic tape?
A) 9
B) 16
C) 18
D) 27
474. Apple company used chips from for its computers
A) Intel
B) Motorola
C) Both of above
D) None of above
475. Which of the following is a feature of fifth generation computers?
A) Use of natural language

B) art	ificial intelligence
C) bic	p-chips
D) All	of above
476. (Charles Babbage was awarded by Royal Society for his
A)	Difference Engine
B)	Analytic Engine
C)	Binary System in Analytic Engine
D)	His concept of input, mill, output and storage
	A computer which CPU speed around 100 million instruction per second and with the word n of around 64 bits is known as
A) Su	per computer B) Mini computer C) Micro computer
D) Ma	acro computer
478. \	When we look at the cost, which of the following computer is most expensive?
A) Ma	ainframe Computer
B) Mi	ni Computers C) Micro Computers D) Super Computers
479. \	Which of the following will happen when data is entered into a memory location?
A) It v	vill add to the content of the location
B) It v	vill change the address of the memory location
C) It v	vill erase the previous content
D) It v	will not be fruitful if there is already some data at the location
480. \	Which device is used as the standard pointing device in a

Graphical User Environment?
A) Keyboard
B) Mouse
C) Joystick
D) Track ball
481. Mini computers and micro computers are from which generation of computers?
A) First
B) Second
C) Third
D) Fourth
482. Pick the one that is used for logical operations or comparisons such as less than equal to or greater than. A) Arithmetic and Logic Unit
B) Control Unit
C) Both of above
D) None of above
483. The operating speed of third generation computer was
A) Milliseconds B) Microseconds C) Nanoseconds D) Picoseconds
484. Which of the following is true?
A) Mark I was 8 feet long B) Mark I was 2 feet long C) Mark I was 40 feet long D) None of above
485. Charles Babbage is considered the father of modern computers because
A) of his difference engine

B) of his analytical engine
C) his concept of input, mill and output
D) All of above
486. Which of the following is used only for data entry and storage, and never for processing?
A) Mouse
B) Dumb terminal
C) Micro computer
D) Dedicated data entry system
487. What was the first computer brought in Nepal?
A) ICL/2950
B) ENIAC
C) IBM 1401
D) None of above
488. The primary advantage of key-to-tape data entry system is
A) A large percentage of editing can be performed at the time of data entry
B) Key verification is easily performed
C) The tape is reusable
D) Keying errors can be detected as they occur.
489. Basic is language.
A) a procedural
B) an object oriented

A) 100

B) 20

C) 40

D) 80

D) Mainframe computer

494. What was the name of the first commercially available microprocessor chip?

A) Analog computer B) Digital computer C) Hybrid computer

A) Intel 308
B) Intel 33
C) Intel 4004
D) Motorola 639
495. Which of the following class of computers can process physical quantities such as speed?
A) Analog Computers B) Digital Computers C) Hybrid Computers D) None of above
496. How many types of storage loops exists in magnetic bubble memory
A) 8
B) 4
C) 16
D) 2
497. When did IBM introduce the 20286 based PC/AT?
A) 1982
B) 1984
C) 1985
D) 1989
498. The silicon chips used for data processing are called
A) RAM chips
B) ROM chips
C) Micro processors
D) PROM chips

499. Which computers used operating systems by Microsoft?
A) IBM PCs
B) Apple/Macintosh PCs
C) IBM Compatibles
D) Both A & C
500. One of the main feature that distinguish microprocessors from micro-computer is
A) Words are usually large in microprocessors
B) Words are shorter in microprocessors
C) Microprocessor does not contain I/O device
D) Exactly the same as the machine cycle time
501. Napier's Bones were invented in
A) 1614
B) 1617
C) 1620
D) None of above
502. One computer that is not considered a portable computer is
A) Minicomputer
B) A laptop computer
C) Tablet PC
D) All of the above
503. Computers built before the First Generation of computers were:
A) Mechanical

B) Electro-mechanical
C) Electrical
D) None of these
FOA Which of the following is a week access access down many and 2
504. Which of the following is a way to access secondary memory?
A) Random access memory
B) Action method
C) Transfer method
D) Density method
505. What is System Analysis?
A) The design of the screen the user will see and use to enter or display data
B) System analysis defines the format and type of data the program will use
C) System Analysis involves creating formal model of the problem to be solved
D) None of the above
506. Which of the following devices have a limitation that we can only store information to it but cannot erase or modify it?
A) Floppy Disk
B) Hard Disk C) Tape Drive D) CDROM
507. Which is an item of storage medium in the form of circular plate?
A) Disk
B) CPU
C) Printer
D) ALU

508. Daisy wheel printer is a type of
A) Matrix printer
B) Impact printer
C) Laser printer
D) Manual printer
509. A number system that has eight different symbols to represent any quantity is known as
A) Binary
B) Octal
C) Decimal
D) Hexadecimal
510. The two basic types of record access methods are:
A) Sequential and random B) Sequential and indexed C) Direct and immediate D) Online and real time
511. Artificial Intelligence is associated with which generation?
A) First Generation
B) Second Generation
C) Fifth Generation
D) Sixth Generation
512. One of a class of storage device devices that can access storage locations in any order is
A) DTE

B) DASD C) DDE D) DDE
513. The actual execution of instructions happens in
A) ALU B) CU
C) Memory
D) None of above
514. Floppy disks are available in
A) Single side single density B) Single side double density C) Both of above
D) None of above
515. Which of the following is not electro-mechanical computer?
A) Z3
B) ABC
C) mark I D) ENIAC
516. Which of the following is a programming language?
A) Lotus
B) Pascal
C) MS-Excel
D) Netscape
517. Which converts the user data into machine readable form?
A) input unit, output unit, control unit
B) central processing unit
C) output unit

D) decoder unit
518. In what respect human beings are superior to computers?
A) Diligence
B) Intelligence
C) Slavery
D) Reliability
519. As compared to the secondary memory, the primary memory of a computer is
A) Large B) Cheap C) Fast
D) Slow
520. The language that the computer can understand and execute is called
A) Machine language
B) Application software
C) System program
D) All of above
521. How was the generation of computer classified?
A) by the device used in memory & processor
B) by the speed of computer
C) by the model of the computer
D) by the accuracy of computer
522. Which of the following is not a feature of first generation computers
A) They used vacuum tubes or valves as main electronic component

B) They consumed lots of electricity and produced excessive heat
C) They used machine language and assembly language to program the machine
D) None of above
523. CAD stands for
A) Computer aided design
B) Computer algorithm for design C) Computer application in design D) All of the above
524. Which of the following memories has the shortest access times?
A) Cache memory
B) Magnetic bubble memory
C) Magnetic core memory
D) RAM
525. A small or intelligent device is so called because it contains within it a
A) Computer
B) Microcomputer C) Programmable D) Sensor
526. Which of the following is not a primary storage device?
A) Magnetic tape
B) Magnetic disk
C) Optical disk
D) All of above
527. Who invented Analytical engine?
A) Blaise Pascal

B) George Bool
C) Charles Babbage
D) Dr. Herman Hollerith
528. CPU speed of a personal computer is
A) 32 KIPS
B) 100 KIPS C) 1 MIPS
D) None of these
529. Circular division of disks to store and retrieve data are known as
A) tracks
B) sectors
C) cycles
D) rings
530. Which statement is valid?
A) 1KB = 1024 bytes
B) 1 MB=2048 bytes
C) 1 MB = 1000 kilobytes
D) 1 KB = 1000 bytes
531. The least significant bit of the binary number, which is equivalent to any odd decimal number, is:
A) 0
B) 1
C) 1 or 0

D) 3

A) Home computers

B) Diskless computers

C) Dedicated computers
D) General purpose computers
537. What is a light pen?
A) Mechanical Input device
B) Optical input device
C) Electronic input device
D) Optical output device
538. Which of the following class of computers can not support multiple users simultaneously?
A) Mainframe Computer
B) Mini Computers
C) Micro Computers
D) All of them can support
539. Which of the following is considered first computer in the world?
A) Z3
B) ABC
C) Mark I
D) None of above
540. When a key is pressed on the keyboard, which standard is used for converting the keystroke into the corresponding bits?
A) ANSI B) ASCII
C) EBCDIC D) ISO

541. In order to play and hear sound on a computer, one needs:
A) a sound card and speakers
B) a microphone
C) all of them required
D) none of them required
542. Which of the following devices can be sued to directly image printed text?
A) OCR B) OMR C) MICR
D) All of above
543. For which of the following computers can't be used?
A) gathering data B) calculating data C) comparing data D) Arranging data
544. Which of the following is called low level languages?
A) Machine language B) Assembly language C) Both of the above D) None of above
545. A factor which would strongly influence a business person to adopt a computer is its
A) Accuracy
B) Reliability
C) Speed
D) All of above
546. Who invented punched cards?
A) Charles Babbage
B) Dr. Herman Hollerith
C) Howard Aikin

D) Joseph Jacquard
547. Each model of a computer has a unique
A) Assembly of a computer
B) Machine language C) High level language D) All of the above
548. Which of the following is not a primary storage device?
A) Magnetic tape B) Magnetic disk C) Optical disk
D) All of the above
549. In a punched card system, data is processed by a
A) Keypunch machine, sorter and posting machine
B) Accounting machine, posting machine, and billing machine
C) Sorter, posting machine, and billing machine
D) Accounting machine, keypunch machine and sorter
550. Which device is required for the Internet connection?
A) Joystick B) Modem C) CD Drive D) NIC Card
551. A set of rods where numbers were carved and used for multiplication and division aids is known as
A) Pascaline
B) Napier's Bones
C) Stepped Reckoner
D) Slide Rule

552. Seek time is		
A) time to position the head over proper track		
B) time to position the head over proper sector		
C) time to position the head over proper cylinder		
D) none of above		
553. Tape speed is measured in		
A) Feet per second		
B) Inch per second		
C) Meter per second		
D) Centimeter per second		
554. Punched cards were first introduced by		
A) Powers		
B) Pascal		
C) Jacquard		
D) Herman Hollerith		
555. Which computer support co-processors?		
A) XT computer		
B) AT computers		
C) None of these		
D) Both of these		
556. A floppy disk contains		
A) Circular tracks only		

B) Sectors only

C) Both circular tracks and sectors
D) None of the above
557. The capacity of 3.5 inch floppy disk is
A) 1.40 MB B) 1.44 GB C) 1.40 GB D) 1.44 MB
558. The contribution of Konrad Zuse was long ignored because
A) He made the computers secretly
B) his computers were very complicated and it took time for the people to recognize its power
C) of political reasons. He was German. D) All of the above
559. Any method for controlling access to or use of memory is known
A) Memory map
B) Memory protection
C) Memory management
D) Memory instruction
560. In what respect computers are superior to human beings?
A) Diligence
B) Intelligence
C) Both of above
D) None of above
561. Com in Latin is

A) intensifying prefix
B) intensifying suffix
C) a term that means to reckon
D) None of above
562. The system unit of a personal computer typically contains all of the following except:
A) Microprocessor B) Disk controller C) Serial interface D) Modem
563. Which of the following is related to fifth generation computers?
A) Knowledge information processing system
B) Very large scale integration (VLSI) C) Both of above
D) Only b
564. The process of starting a or restarting a computer system by loading instructions from a secondary storage device into the computer memory is called
secondary storage device into the computer memory is called
secondary storage device into the computer memory is called
secondary storage device into the computer memory is called A) Duping B) Booting C) Padding D) CPS
secondary storage device into the computer memory is called A) Duping B) Booting C) Padding D) CPS 565. MSI stands for
secondary storage device into the computer memory is called A) Duping B) Booting C) Padding D) CPS 565. MSI stands for A) Medium Scale Integrated Circuits
secondary storage device into the computer memory is called A) Duping B) Booting C) Padding D) CPS 565. MSI stands for A) Medium Scale Integrated Circuits B) Medium System Integrated Circuits
secondary storage device into the computer memory is called A) Duping B) Booting C) Padding D) CPS 565. MSI stands for A) Medium Scale Integrated Circuits B) Medium System Integrated Circuits C) Medium Scale Intelligent Circuit
secondary storage device into the computer memory is called A) Duping B) Booting C) Padding D) CPS 565. MSI stands for A) Medium Scale Integrated Circuits B) Medium System Integrated Circuits C) Medium Scale Intelligent Circuit
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C) The smallest resolvable part of a picture		
D) None of these		
567. A/n Devi	ice is any device that provides information, which is sent to the CPU	
A) Input		
B) Output	B) Output	
C) CPU		
D) Memory		
568. What was the	nick name of the computer used by the	
Americans in 1952	2 for their H-bomb project?	
A) ENIAC B) EDSA	C	
C) MANIAC		
D) UNIVAC		
569. Which is the t	type of memory for information that does not change on your computer?	
A) RAM B) ROM C)	ERAM	
D) RW / RAM		
570. LSI, VLSI & UL	SI chips were used in which generation?	
A) First		
B) Second		
C) Third		
D) Fourth		
571. Which of the f	following is the largest manufacturer of Hard	

Disk Drives?
A) IBM
B) Seagate
C) Microsoft
D) 3M
572. Networking such as LAN, MAN started from
A) First generation
B) Second generation
C) Third generation
D) Fourth generation
573. Which characteristic of computer distinguishes it from electronic calculators?
A) Accuracy
B) Storage
C) Versatility
D) Automatic
574. Which of the following registers is used to keep track of address of the memory location where the next instruction is located?
A) Memory address register
B) Memory data register
C) Instruction register
D) Program counter
575. Which of the following is not the classification of computers based on application?

A) Electronic Computers
B) Analog Computers C) Digital Computers D) Hybrid Computers
576. Which of the following is not a type of Software
A) System Software
B) Application Software
C) Utility Software
D) Entertainment Software
577. Who invented the high level language C?
A) Dennis M. Ritchie
B) Niklaus Writh
C) Seymour Papert
D) Donald Kunth
578. What do you call the programs that are used to find out possible faults and their causes?
A) Operating system extensions
B) Cookies
C) Diagnostic software
D) Boot diskettes
579. Which computer memory is used for storing programs and data currently being processed by the CPU?
A) Mass memory
B) Internal memory

C) Non-volatile memory
D) PROM
580. Which of the following code used in present day computing was developed by IBM Corporation?
A) ASCII
B) Hollerith Code C) Baudot Code D) EBCDIC Code
581. When was the transistors invented?
A) 1948
B) 1938
C) 1958
D) 1968
582. In the third Generation of computers
A) Distributed data processing first became popular
B) An operating system was first developed
C) High level procedural language were first used
D) Online real time systems first become popular
583. Most important advantage of an IC is its A) Easy replacement in case of circuit failure B) Extremely high reliability
C) Reduced cost
D) Lower power consumption
584. Which of the following magazines covers only the IBM PC and its compatibles?
A) Byte

B) PC Magazine
C) Personal Computing
D) Interface Age
585. UNIVAC was a first generation computer. What is its full form?
A) Universal Automatic Computer
B) Universal Array Computer
C) Unique Automatic Computer
D) Unvalued Automatic Computer
586. Which of the following is required when more than one person uses a central computer at the same time?
A) Terminal B) Light pen C) Digitizer D) Mouse
587. Which of the following is not an output device?
A) Scanner
B) Printer
C) Flat Screen
D) Touch Screen
588. Personal computers used a number of chips mounted on a main circuit board. What is the common name for such boards?
A) Daughterboard
B) Motherboard C) Father board D) Childboard

(KamranMahar) [PaNoAkiLiaNs] (WhatsApp) [O3O41797633]

Answers

1-A	2-D	3-D	4-D	5-C	6-A	7-C	8-D	9-C	10-B
11-C	12-C	13-D	14-C	15-C	16-B	17-B	18-B	19-C	20-D
21-B	22-D	23-C	24-B	25-A	26-B	27-B	28-A	29-B	30-D
31-B	32-D	33-A	34-A	35-A	36-D	37-A	38-C	39-B	40-B
41-C	42-B	43-C	44-D	45-C	46-A	47-B	48-D	49-A	50-B
51-D	52-B	53-B	54-D	55-C	56-C	57-C	58-C	59-B	60-B
61-C	62-B	63-D	64-A	65-D	66-D	67-C	68-A	69-B	70-C
71-C	72-B	73-C	74-D	75-B	76-A	77-D	78-C	79-A	80-A
81-C	82-D	83-C	84-B	85-D	86-D	87-A	88-C	89-D	90-D
91-D	92-C	93-C	94-A	95-D	96-B	97-D	98-C	99-C	100-B
101-B	102-C	103-B	104-B	105-B	106-C	107-B	108-C	109-C	110-C
111-C	112-D	113-A	114-C	115-B	116-B	117-C	118-C	119-A	120-D
121-A	122-A	123-A	124-B	125-A	126-D	127-B	128-C	129-B	130-B

131-C	132-A	133-A	134-B	135-B	136-A	137-B	138-A	139-B	140-D
141-C	142-C	143-D	144-B	145-C	146-C	147-C	148-C	149-C	150-A
151-C	152-D	153-B	154-D	155-C	156-D	157-A	158-B	159-B	160-B
161-B	162-A	163-B	164-A	165-B	166-A	167-B	168-B	169-C	170-D
171-C	172-A	173-A	174-A	175-C	176-A	177-C	178-A	179-C	180-A
181-A	182-A	183-C	184-A	185-D	186-D	187-C	188-B	189-C	190-A
191-C	192-A	193-C	194-A	195-A	196-A	197-A	198-D	199-B	200-A
201-B	202-A	203-D	204-D	205-B	206-B	207-C	208-C	209-A	210-D
211-C	212-B	213-C	214-D	215-D	216-B	217-D	218-A	219-B	220-C
221-D	222-A	223-C	224-B	225-A	226-D	227-D	228-C	229-D	230-A
231-D	232-C	233-A	234-D	235-B	236-A	237-A	238-B	239-A	240-C
241-D	242-C	243-A	244-A	245-C	246-A	247-D	248-D	249-C	250-D
251-D	252-A	253-A	254-B	255-C	256-D	257-D	258-C	259-C	260-B
261-D	262-D	263-A	264-B	265-A	266-C	267-D	268-C	269-B	270-D
271-B	272-B	273-C	274-D	275-A	276-C	277-C	278-C	279-B	280-A
281-C	282-C	283-C	284-A	285-B	286-D	287-B	288-A	289-A	290-A
291-C	292-D	293-C	294-A	295-B	296-B	297-C	298-B	299-C	300-A
301-B	302-C	303-B	304-A	305-B	306-D	307-A	308-D	309-D	310-D
311-B	312-D	313-C	314-D	315-C	316-D	317-C	318-B	319-B	320-A
321-B	322-B	323-A	324-B	325-B	326-B	327-B	328-D	329-D	330-A
331-B	332-D	333-A	334-D	335-D	336-B	337-В	338-A	339-C	340-A
341-C	342-D	343-D	344-A	345-C	346-A	347-C	348-C	349-A	350-A
351-b	352-A	353-D	354-B	355-D	356-D	357-C	358-C	359-A	360-C
361-D	362-C	363-A	364-D	365-B	366-A	367-D	368-B	369-C	370-D
371-A	372-C	373-D	374-A	375-A	376-D	377-A	378-A	379-A	380-A
381-A	382-D	383-B	384-B	385-B	386-B	387-D	388-A	389-A	390-C

391-D 3	392-A	393-C	394-A	395-A	396-D	397-B	398-B	399-D	400-B
401-A	402-A	403-A	404-A	405-A	406-D	407-D	408-A	409-D	410-A
411-C	412-C	413-C	414-B	415-D	416-D	417-A	418-C	419-B	420-C
421-D 4	422-C	423-C	424-D	425-A	426-A	427-C	428-B	429-A	430-A
431-B 4	432-B	433-D	434-C	435-D	436-C	437-B	438-C	439-C	440-D
441-A	442-C	443-C	444-C	445-A	446-D	447-D	448-D	449-D	450-D
451-B 4	452-C	453-B	454-C	455-C	456-A	457-B	458-C	459-B	460-C
461-B 4	462-B	463-B	464-A	465-D	466-C	467-B	468-C	469-A	470-B
471-B	472-C	473-A	474-B	475-D	476-A	477-A	478-D	479-C	480-B
481-D 4	482-A	483-C	484-D	485-C	486-B	487-C	488-C	489-A	490-A
491-A	492-B	493-C	494-C	495-A	496-D	497-B	498-C	499-D	500-C
501-B	502-A	503-B	504-A	505-C	506-D	507-A	508-B	509-B	510-A
511-C	512-B	513-A	514-C	515-D	516-B	517-A	518-B	519-C	520-A
521-A	522-C	523-A	524-A	525-D	526-D	527-C	528-B	529-A	530-A
531-A	532-A	533-C	534-A	535-D	536-B	537-B	538-C	539-C	540-A
541-A	542-A	543-A	544-C	545-D	546-D	547-B	548-D	549-D	550-B
551-B	552-A	553-B	554-D	555-B	556-C	557-D	558-C	559-B	560-A
561-A	562-D	563-A	564-B	565-A	566-C	567-A	568-C	569-B	570-D
571-B	572-D	573-C	574-D	575-A	576-D	577-A	578-C	579-B	580-D
581-A	582-D	583-B	584-B	585-A	586-A	587-D	588-B		