INTRODUCTION TO COMPUTERS

(MCQs)

1. Physical parts of computer are:
   (a) Software (b) Programme
   (c) Hardware (d) Device
2. Computer gives results after:
   (a) Processing (b) Programming
   (c) Printing (d) Downloading
3. Among data storage devices the least reliable is:
   (a) ROM (b) RAM
   (c) Hard Disk (d) Floppy Disk
4. The name of first Arithmetic Machine is:
   (a) Napier bones (b) Difference Engine
   (c) Abacus (d) Calculator
5. The father of the modern computer is:
   (a) John Napier (b) Charles Babbage
   (c) Herman Hollerith (d) Blaise Pascal
6. Abacus is also called as:
   (a) Difference Engine (b) Counting frame
   (c) Calculator (d) Computer
7. Micro computer is also called as:
   (a) Personal Computer (b) Laptop Computer
   (c) Note book Computer (d) All above
8. In how many groups are computers classified by size?
   (a) 2 (b) 3
   (c) 4 (d) 5
9. Computer that measures data in a continuous process is called:
   (a) Analog Compute (b) Digital Computer
   (c) Hybrid Computer (d) None of above
10. Input device is:
   (a) Scanner (b) Monitor
   (c) Printer (d) Plotter
11. Which is not the input unit?
   (a) Scanner (b) Mouse
   (c) Monitor (d) Keyboard
12. Output device is:
   (a) Camera (b) Scanner
   (c) Printer (d) Mouse
13. Which is not out put device?
   (a) Monitors (b) Printers
   (c) Plotters (d) Keyboard
14. Computer that represents physical quantities in figures is:
   (a) Analog Computer (b) Digital Computer
   (c) Hybrid Computer (d) None of above
15. Which is the part of Computer?
   (a) System unit (b) Input device
   (c) Out put device (d) All above

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16. View, edits and file are present on:
(a) Title bar (b) Menu bar
(c) Standard tool bar (d) Formatting tool bar

17. Machine language consists of:
(a) 00 (b) 0 & 1
(c) 1 & 1 (d) 1 & 2

18. Central processing unit (CPU) consists of:
(a) Control unit (b) Arithmetic/logic unit
(c) Both a & b (d) None of a & b

19. The type of computer by size is:
(a) Micro computer (b) Mini computer
(c) Macro computer (d) All above

20. The type of computer by structure (type) is:
(a) Analog Computer (b) Digital Computer
(c) Hybrid Computer (d) All above

21. The function of input device is:
(a) To enter the data (b) To receive the data
(c) To process the data (d) All above

22. The function of output device is:
(a) To enter the data (b) To receive the data
(c) To process the data (d) All above

23. Which one is not the example of digital computers?
(a) Digital thermometer (b) Digital watches
(c) Analog clock (d) Main frame computer

24. Different from others is:
(a) Mouse (b) Monitor
(c) Key board (d) Scanner

25. Secondary storage devices is:
(a) Floppy disk (b) CD
(c) Hard disk (d) All above

26. Efficiency of computer depends upon:
(a) Monitor (b) Key board
(c) Mouse (d) Processor

27. Power of computer is measured in:
(a) Mega/Gega hertz (b) Mega byte
(c) Gega byte (d) None of above

28. CPU means:
(a) Central processing unit
(b) Central printer unit
(c) Calculator process unit
(d) Computer processing unit

29. The coloured area on screen is:
(a) Desktop (b) Laptop
(c) Monitor (d) Bar

30. Every information is stored in computer in the form of:
(a) Zeros (b) Ones
(c) Zeros & One (d) Ones & Twos

31. Which of the following enables digital data to be transmitted over the phone lines?
(a) Keyboard (b) Mouse
(c) Modem (d) Mike

32. What hardware category does magnetic tape fall into:
(a) Input (b) Output
(c) Storage (d) Communication

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33. A Kilo Byte is equal to approximately:

(a) 1000 bytes (b) 1024 bytes

(c) 1 million bytes (d) 10 million bytes

34. Most likely used to design products, structure, civil engineering drawings and maps is:

(a) Communication software

(b) Electronic mail software

(c) Computer aided design software

(d) Desk top publishing software

35. Which of the following is accessed when you switch on your computer?

(a) RAM chip (b) ROM chip

(c) FDD (d) HDD

36. In a confined space the most useful to use is:

(a) Mouse (b) Trackball

(c) Keyboard (d) All of the above

37. Machine Language is Binary type programming language that computer can:

(a) Directly run

(b) Not directly run

(c) Not run all

(d) Can run after translating it into assembly language

38. Microsoft Excel is for:

(a) Data Base Management

(b) Spread Sheet Analysis

(c) Text Processing

(d) None of above

39. Formatting a document means:

(a) Correcting spelling and Grammar

(b) Improving the appearance of the document

(c) Copying the document to CD

(d) All of the above

40. A computer which links several PCs together is:

(a) Mainframe (b) Client

(c) Mini computer (d) None of above

41. In a computer the raw facts are:

(a) Programs (b) Commands

(c) Data (d) Attributes

42. Which one is used for presentation?

(a) OHP (b) Slide Projector

(c) Computer Monitor (d) All of the above

43. A mouse & joystick are both examples of:

(a) Multimedia devices (b) Pen input devices

(c) Pointing devices (d) All of above

44. The combination of text, sound and video to display the information in the meaningful way is:

(a) Over head projector (b) Opaque Projector

(c) Multimedia (d) Slide Projector

45. Computer software can further be divided into application software and:

(a) Programming software

(b) System software

(c) Office software

(d) Military software

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46. Peripheral devices that are used to get information or result from a computer are called:

(a) Input device (b) Output device

(c) Keyboard (d) Floppy disk

47. What makes up an entire computer system:

(a) Hardware

(b) Software

(c) Hardware & Software

(d) Monitor & Mouse

48. Technology:

(a) Causes learning

(b) Guarantees effective learning

(c) Increase I.Q.

(d) Facilitates development of skills

49. A www site name is also called:

(a) HTTP (b) URL

(c) SMTP (d) HTML

50. The computer that operates on data, which is in the form of continuous variable physical quantities is:

(a) Analogue (b) Assembler

(c) Buffer (d) Compiler

51. The most suitable software used to make lecture slides is:

(a) MS Word

(b) MS Power Point

(c) MS Excel

(d) MS Access

52. CAI is abbreviation of:

(a) Computer Associated Instruction

(b) Class Assisted Instruction

(c) Computer Assisted Instruction

(d) Computer Assisted Information

53. The hardware necessary for LAN is:

(a) Modem (b) Network interface card

(c) Multiplex (d) Video accelerator card

54. A long haul network is:

(a) WAN (b) LAN

(c) WWW (d) VLSL

55. Personal computers are also called:

(a) Mini computers (b) Main frame computers

(c) Microcomputers (d) Super computers

56. Information which we provide to the computer is:

(a) Process (b) Output

(c) Results (d) Instruction

57. Which is not Internet application?

(a) E-mail (b) News group

(c) Chat messengers (d) Word processor

58. A computer gives output through:

(a) Printer (b) Monitor

(c) Keyboard (d) a & b

59. Close, maximize, minimize buttons on a window are on:

(a) Title bar (b) Scroll bar

(c) Tool bar (d) Menu bar

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60. The use of ROM is:
   (a) It is used to store data or instructions which the computer needs all the time
   (b) It is used for overwriting the information
   (c) It is used to change the information
   (d) All of the above

61. Component not essential to run a computer is:
   (a) Hard disk (b) RAM
   (c) CD drive (d) Micro processor

62. The computer hardware is:
   (a) CPU (b) Keyboard & printer
   (c) Mouse & Monitor (d) a, b & c

63. Feature used to send a picture by e-mail is:
   (a) E-mail Forward
   (b) E-mail browse
   (c) E-mail Send
   (d) E-mail attachment

64. The knowledge of Computer science is related to:
   (a) Programming
   (b) Hardware
   (c) Computer language teaching
   (d) Design and development of physical parts of the computer

65. Microsoft Internet Explorer is:
   (a) Internet Service Provider
   (b) Internet Browser
   (c) LAN Server
   (d) A type of network

66. Consecutive pressing and releasing of mouse is called:
   (a) Click (b) Double click
   (c) Mouse pointer (d) Cursor

67. It is not the function of Power Point to:
   (a) Make slides
   (b) Design presentation
   (c) Explore the information on network
   (d) Create banners to be placed on a web site page

68. Central processing unit:
   (a) Displays the results
   (b) Carries out user's request
   (c) Stores the instructions to computer system
   (d) Gets user's request into system

69. The process of dividing the memory space of hard disk into different parts and assigning different names to these parts is:
   (a) Grouping (b) Fragmentation
   (c) Defrag (d) Partitioning

70. The flickering point on the screen indicating the place of an action/command is:
   (a) Mouse pointer (b) Cursor
   (c) Work area (d) Highlighter

71. What device creates an electronic version of a hard copy?
   (a) Image Printer
   (b) Image Scanner
   (c) Vision entry device
   (d) Video RAM

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72. A bar on the screen that contains the name of applications program and close button on it is called:

(a) Tool bar (b) Title bar

(c) Scroll bar (d) Menu bar

73. Keyboard shortcut Ctrl + V is for:

(a) Selecting from the clipboard

(b) Copying to the clipboard

(c) Cutting to the clipboard

(d) Pasting from the clipboard

74. The computer devices that transforms the input data to the binary language are:

(a) Processors (b) Translator devices

(c) Output devices (d) Interfaces

75. On the formatting Toolbar a feature "Preview" is written. Its property is:

(a) Effect of the Font is displayed before applying

(b) Specifies the overall look of the character set

(c) Text appears to be raised off the page

(d) Text appears to be pressed into the page

76. The computer unit that manages and coordinates the operations of all the components is:

(a) Central processing unit

(b) Control unit

(c) Computer system (d) Arithmetic logic unit

77. Which of the following shortcut is not according command?

(a) Ctrl + N is to open a new window

(b) Shift + F10 is to display a shortcut menu

(c) F5 is to refresh the page that is displayed

(d) Alt + F4 is to seek help

78. The basic memory unit of computer is:

(a) Byte (b) Kilobyte

(c) Megabyte (d) Bit

79. A binary number 1100011 has the decimal value equal to:

(a) 4 (b) 16

(c) 99 (d) 128

80. Computer Assisted Instruction (CAI) programs are oriented to the activities of:

(a) Student (b) Teacher

(c) Content (d) Syllabus

81. Internet is a:

(a) Local area network

(b) Large area network

(c) Network within country

(d) Number of smaller network

82. Super computer is used for:

(a) Networking (b) Scientific laboratories

(c) Banking (d) Personal use

83. Computer programs that control and coordinate the physical parts of the computer are:

(a) System software

(b) Disk operating system software

(c) Windows software (d) Application software

84. Random access memory is also known as:

(a) Non volatile (b) Volatile

(c) Permanent (d) Secondary

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85. The father of the modern digital computer is:

(a) Dr. Johar Atanasoff

(b) Clifford Berry

(c) Howard A. Aiken

(d) Charles Babbage

86. Rom chip has software embedded in:

(a) Motherboard (b) Processor

(c) Bus (d) Control

87. Basic operations performed by all the computer system are:

(a) 4 (b) 5

(c) 6 (d) 7

88. Information Technology is a term which means:

(a) Computer

(b) Internet

(c) Telecommunication

(d) Telecommunication & Computer

89. When a computer performs arithmetic operations or logical operations, it is:

(a) Controlling (b) Processing

(c) Outputting (d) Storing

90. The complete name of processor is:

(a) Arithmetic logic unit

(b) Central processing unit

(c) I.Q unit

(d) Control unit

91. Data processing is:

(a) Collection of facts-unorganized but able to be organized into useful information

(b) Information

(c) A series of actions that convert inputs into output

(d) Collection of raw data to make decisions

92. Storage capacity of Floppy disk is:

(a) 1.44 Mb (b) 1.54 Mb

(c) 1.64 Mb (d) 650 Mb

93. Data which we provide to the computer is:

(a) Letters and digits (b) Words

(c) Sentences (d) a, b & c

94. The CPU is an example of:

(a) Software (b) Hardware

(c) Both a & b (d) Soft copy

95. Printers and monitors are common forms of:

(a) Input units (b) Output units

(c) Storage unit (d) Processing unit

96. An input device is:

(a) Speaker (b) Monitor

(c) Keyboard (d) Printer

97. A collection of raw facts and figures is called:

(a) Data (b) Processing

(c) Information (d) Input

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98. The use of floppy disks is:
   (a) These are used as hard disks
   (b) These are used to store data that connot be erased
   (c) These are used for storing and transferring data
   (d) Store data which is not changed

99. Copying data from internet to computer is called:
   (a) Uploading (b) Down-loading
   (c) Transferring (d) Pasting

100. PC stands for what?
   (a) Popular Computer (b) Personal Computer
   (c) Program Counter (d) Processor Computer

101. The three stages/steps in order in the use of instructional technology are:
   (a) Planning, presentations, evaluation
   (b) Planning, demonstration, presentation
   (c) Presentation, evaluation, assesment
   (d) Planning, assessment and evaluation

102. The process of transferring data electronically from one place to another is:
   (a) Data communication (b) Data processing
   (c) Data sender (d) Data sequencing

103. CAL stands for what?
   (a) Call and Learn
   (b) Computer assisted Learning
   (c) Computer and Learning
   (d) Computer at Learning

104. A digital scanner is used to:
   (a) Detect software problems
   (b) Store files
   (c) Provide the computer with information on software
   (d) Copy an image from paper to your computer

105. Opaque projector is called:
   (a) Epi-Dia scope
   (b) Sound Projector
   (c) Micro projector
   (d) Slid projector

106. Which provides a path for transferring information between two or more devices:
   (a) Register (b) Bus
   (c) Memory (d) All of the above

107. One of the tasks is not performed by an operating system:
   (a) Program loading
   (b) Operator Communication
   (c) Software development
   (d) Job accounting

108. Using computers in classroom require organization of computer as:
   (a) One computer for the whole class
   (b) One computer for small group
   (c) One computer for each student
   (d) All of the above

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109. Teachers are expected to use computer:

(a) For software development

(b) Product functionality

(c) Games and entertainment

(d) To create their own teaching material

110. The internet and World Wide Web allow the students to interact with resource in learning:

(a) Dialogue atmosphere

(b) Can replace existing services

(c) Can improve retention rate

(d) All of the above

111. Computer managed Learning is:

(a) Self contained instructional range and testing experience for students

(b) Information handling

(c) Categorizing information

(d) None of the above

112. For what the abbreviation 'LANs' stands for?

(a) Large Areas Networks

(b) Layout Area Networks

(c) Local Area Networks

(d) Launching Area Networks

113. What does e-mail stands for:

(a) Electricity mail

(b) Electronic mail

(c) Early mail

(d) Elective mail

114. Collection of characters, numbers and symbols is:

(a) Data (b) Keyboard

(c) Monitor (d) Ram

115. Computer give results after:

(a) Processing (b) Programming

(c) Printing (d) Priming

116. The word E-mail stands for:

(a) Erroneous mail (b) Exceptional mail

(c) Electronic mail (d) Extraordinary mail

117. Personal computer consists of:

(a) Hardware

(b) Data, programme, storage access

(c) Software (d) All of the above

118. A person who writes instructions for a computer is:

(a) Computer expert (b) Computer instructor

(c) Computer programmer

(d) Computer engineer

119. Conversation of raw data into useful information is:

(a) Data verification (b) Data organization

(c) Data base (d) Data processing

120. The first generation of computer is:

(a) Analytical Engine (b) Abacus

(c) IBM-mark - 1 (d) UNIVAC - 1

121. One byte is group of:

(a) 2 Bit (b) 4 Bit

(c) 6 Bit (d) 8 Bit

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122. The decimal equivalent of binary (110) 2 is:

(a) 4 (b) 6

(c) 8 (d) 10

123. Input device is:

(a) Printer (b) Speaker

(c) CPU (d) Digital Camera

124. The most common type of system software is:

(a) Application software

(b) Operating system

(c) Word-processing (d) Pascal

125. Super computer is used in:

(a) Banks (b) Military

(c) Industries (d) Schools

126. In computer on every programme there is a bar which is called:

(a) Title bar (b) Task bar

(c) Tool bar (d) Menu bar

127. The system software is:

(a) MS Word (b) SPSS

(c) Windows 98 (d) MS Excel

128. For what "e" stands for in e-mail?

(a) Electronic (b) Electricity

(c) Early (d) Electronically

129. The performing of arithmetic operations on data in order to convert into useful information is:

(a) Storing (b) Controlling

(c) Outputting (d) Processing

130. The greatest contribution of present day technolgy and its use in education is:

(a) Television (b) Atom Bomb

(c) Computer (d) Teaching Machines

131. A type of CAI is:

(a) Digital (b) Dialogue

(c) Disk (d) Discrete

132. An operating system is:

(a) Compiler (b) Computer

(c) High level language (d) Window 2000

133. Which is active only when the computer is ON:

(a) Hard disk (b) Floppy drive

(c) ROM (d) RAM

134. The function of central processing unit is:

(a) Display (b) To feed data only

(c) To use the internet

(d) Accepts, stores and retrieves data

135. A set of instructions is called:

(a) Chatting (b) Program

(c) Application (d) Software

136. A keyboard consists of functions keys:

(a) 11 (b) 13

(c) 12 (d) 14

137. Different from the others is:

(a) Speaker (b) Mike

(c) Scanner (d) Keyboard

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138. Which of the following is odd?

(a) Printer (b) Monitor

(c) Scanner (d) Plotter

139. Different from the others is:

(a) Hard disk drive (b) Floppy disk drive

(c) Printer (d) CD drive

140. Hardware consists of:

(a) Machinery and equipment

(b) Communication media

(c) Peripheral devices

(d) Processor and monitor

141. Input devices allow to put data into the computer for:

(a) Use (b) Process

(c) Store (d) All of the above

142. Secondary storage store data:

(a) Permanently (b) Temporarily

(c) On RAM (d) On ROM

143. System software controls the:

(a) Allocation and usage of hardware resources

(b) ROM

(c) Internet and WWW

(d) Speakers only

144. Which of the following converts computer image into printed image:

(a) Keyboard (b) Mouse

(c) Scanner (d) Printer

145. The character stored in memory as a sequence of electrical signals is:

(a) Binary digit (bit) (b) Disk

(c) Register (d) None of above

146. Bit/Signal is represented by the values:

(a) 0 & 1 (b) 1 & 2

(c) 0 & 2 (d) 1 & 2

147. How many bits (Binary digits) a character have?

(a) 2 (b) 4

(c) 6 (d) 8

148. All the information are stored in:

(a) Keyboard (b) Hard disk

(c) Processor (d) Monitor

149. Physical parts of the computer are called:

(a) Input devices (b) Output devices

(c) Hardware (d) Software

150. Software means:

(a) A set of devices (b) A set of instruction

(c) A set of computer (d) None of above

151. Program that controls the computer hardware is:

(a) System software (b) Application software

(c) Output devices (d) Input devices

152. DOS is an abbreviation of:

(a) Double operating system

(b) Disk operating system

(c) Disk only system

(d) Disk output system

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153. What is the number of values, a bit can have?

(a) One (b) Two

(c) Three (d) Four

154. The value of a bit is:

(a) Zero or One (b) Zero or Two

(c) One or two (d) None of above

155. Bits are grouped into units of eight called:

(a) Bytes (b) Character

(c) Font (d) Icon

156. Bit is also called as:

(a) Small (b) Binary digit

(c) Character (d) Byte

157. A computer word is 40 bits long, the number of bytes in this word are:

(a) 2 (b) 4

(c) 5 (d) 6

158. Window operating system was developed in:

(a) 1975 (b) 1985

(c) 1995 (d) 1998

159. Printer is an:

(a) Input device (b) Output device

(c) Software (d) None of above

160. Scanner is an:

(a) Input device (b) Output device

(c) Software (d) None of above

161. The overall performance of a computer is controlled by:

(a) Windows (b) System software

(c) Application software (d) DOS

162. The full name of the processor is:

(a) Control unit

(b) System unit

(c) Arithmetic unit

(d) Central processing unit

163. RAM stands for:

(a) Random Access Memory

(b) Read and Write Memory

(c) Random Available Memory

(d) Random Advance Memory

164. Kilobytes mean?

(a) 500 Bytes (b) 1024 Bytes

(c) 1500 Bytes (d) 2000 Bytes

165. The first computer that can store programme as well as data was:

(a) MARK (b) EDVAC

(c) ENIC (d) UNIVAC-1

166. First electronic calculator was invented by:

(a) John Napier (b) Charles Babbage

(c) Herman Hollerith (d) Blaise Pascal

167. Professor Harward H. Aiken developed the electronic mechanical computer in:

(a) 1938 (b) 1948

(c) 1958 (d) 1963

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168. Data base means:
(a) Collecting data (b) Arranging data
(c) Processing data (d) All above

169. What is the collection of facts called?
(a) Data (b) Theory
(c) Analysis (d) None of above

170. Example of Numeric data is:
(a) PIA-377 (b) 377
(c) PIA (d) All above

171. The example of Alphabetic data is:
(a) PIA-377 (b) 377
(c) PIA (d) All above

172. The example of Alpha-numeric data is:
(a) PIA-377 (b) 377
(c) PIA (d) All above

173. Website is a:
(a) Data (b) Address
(c) Search engine (d) None of above

174. Which one is necessary for internet?
(a) Computer (b) Fax Modem
(c) Telephone line (d) All above

175. www is abbreviation of:
(a) World Wide Window (b) World Wide Web
(c) World Wide Wastage (d) None of above

176. Corel Draw helps in:
(a) Data collection (b) Data processing
(c) Data analysis (d) Designing

177. The main function of Power Point is:
(a) Data analysis (b) Data processing
(c) Preparing presentation (d) None of above

178. Excel is a software programme specialized for:
(a) Presentation
(b) Letters
(c) Calculations/Accoutancy
(d) All above

179. M.S.Word is used for:
(a) Presentation
(b) Letters
(c) Calculations/Accountancy
(d) All above

180. What is the top most bar called in M.S.Word:
(a) Title bar (b) Menu bar
(c) Standard tool bar (d) Formatting tool bar

181. Scroll bar is used for:
(a) Cut, copy, paste (b) Page adjustment
(c) Italic, Bold, Font size (d) None of above

182. Formatting tool bar is used for:
(a) Cut, copy, paste (b) Page adjustment
(c) Italic, Bold, Font size
(d) None of above

183. Standard tool bar is used for:
(a) Cut, copy, paste (b) Page adjustment
(c) Italic, Bold, Font size (d) None of above

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SECTION – II (Short Questions)

1. Differentiate between computer software and hardware.
2. Enlist three input and three output devices.
3. Discriminate between system software and application software.
4. What is Internet?
5. What is www?
6. What is information technology?
7. What is an operating system?
8. How a new folder is created?
9. How a file is saved?
10. How E-mail is sent?
11. What is a search engine?

SECTION – III (Detailed Questions)

1. Internet had made the world a global village. Discuss.
2. What is operating system? Give its types and functions.
3. How Ms Word be used for educational application?
4. What are the uses of MS Excel in classroom?

KEY MCQ's

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

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116.	c	117.	d	118.	c	119.	c	120.	d
121.	d	122.	b	123.	d	124.	b	125.	b
126.	a	127.	c	128.	a	129.	d	130.	c
131.	b	132.	d	133.	d	134.	d	135.	b
136.	c	137.	a	138.	c	139.	c	140.	a
141.	d	142.	a	143.	a	144.	d	145.	a
146.	a	147.	d	148.	b	149.	c	150.	b
151.	a	152.	b	153.	a	154.	a	155.	a
156.	b	157.	c	158.	b	159.	b	160.	a
161.	b	162.	d	163.	a	164.	b	165.	b
166.	c	167.	d	168.	d	169.	a	170.	b
171.	c	172.	a	173.	b	174.	d	175.	b
176.	d	177.	c	178.	c	179.	b	180.	a
181.	b	182.	c	183.	a				

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