

Engineer (Computer Science)

1. Data will remain intact even when the computer is turned off, if it is stored on .....

- A.RAM
- B.motherboard
- C.secondary storage device
- D.primary storage device

Ans.C

2. A(n) ..... converts and executes one statement at a time.

- A.compiler
- B.instructor
- C.converter
- D.interpreter

Ans.D

3. A ..... is equipment that might be added to a computer to enhance its functionality.

- A.digital device
- B.system add-on
- C.disk pack
- D.peripheral device

Ans.D

4. Approximately how many bytes make one megabyte?

- A.One thousand
- B.Ten thousand
- C.One hundred
- D.One million

Ans.D

5. Fax machines and imaging systems are examples of:

- A.bar-code readers
- B.imaging systems
- C.scanning devices
- D.pen-based systems

Ans.B

6. A compiler which runs on one machine and produces target code for another is called a:

- A.Bootstrapping compiler
- B. Just-in-time compiler
- C. Cross compiler
- D. Optimizing compiler

Ans.C

7. The maximum length (in bytes) of an IP packet:

- A.255
- B.1023
- C.32767
- D.65535

Ans.D

8. The degree of multiprogramming is controlled primarily by?

- A.Short-term scheduler
- B.Medium-term scheduler
- C.Long-term scheduler
- D.Disk scheduler

Ans.C

9. The microchip that controls a computer's interface to its attached serial devices is:

- A.Virtual Device driver
- B.Universal Asynchronous Receiver/Transmitter
- C.Serial presence detect
- D.Bus master

Ans.B

10. Which was the first processor to be shipped with a 1 gigahertz clock speed?

- A.Athlon
- B.BeOS
- C.Crusoe
- D. Pentium

Ans.A

11. A group of microchips designed to work as a unit to perform one or more related functions is called:

- A.Biochip
- B.Bus
- C.Chipset
- D.Diode

Ans.C

12. Who developed the concept of semaphores?

- A.Dekker
- B.Tanenbaum
- C.Kruskal
- D.Dijkstra

Ans.D

13. In laser printing, there are six steps the printer follows. What comes between the conditioning phase and the developing phase?

- A. transfer phase
- B. writing phase
- C. fusing phase
- D. cleaning phase

Ans:B

14. A process known as \_\_\_\_\_ is used by large retailers to study trends

- A. data mining
- B. data selection
- C. POS
- D. data conversion

Ans:A

15. \_\_\_\_\_ is the science that attempts to produce machines that display the same type of intelligence that humans do.

- A. Nanoscience

- B. Nanotechnology
- C. Simulation
- D. Artificial intelligence (AI)

Ans:D

16. Computers process data into information by working exclusively with

- A. multimedia.
- B. words
- C. characters.
- D. numbers

Ans:D

17. A string of eight 0s and 1s is called a

- A. megabyte.
- B. byte.
- C. kilobyte.
- D. gigabyte

Ans:B

18. The components that process data are located in the

- A. input devices
- B. output devices.
- C. system unit.
- D. storage component.

Ans:C

19. Word processing, spreadsheet, and photo-editing are examples of:

- A. application software.
- B. system software
- C. operating system software
- D. platform software.

Ans:A

20. Apple Macintoshes (Macs) and PCs use different \_\_\_\_\_ to process data and different operating systems

- A. languages
- B. methods
- C. CPUs
- D. storage devices

Ans:C

BEL General Aptitude

1. The sum of the first 47 terms of the series  $\frac{1}{4} + \frac{1}{5} - \frac{1}{6} - \frac{1}{4} - \frac{1}{5} + \frac{1}{6} + \frac{1}{4} + \frac{1}{5} - \frac{1}{6}$  is:

- A. 0
- B.  $\frac{1}{6}$
- C.  $\frac{1}{6}$
- D. 1

Ans:B

2.  $(?5 + ?3) / (?5 - ?3)$  is equal to :

- A. 1
- B. 2
- C.  $4 - ?15$

D. 4+?15

Ans:C

3. The smallest value of  $m$ , for which  $2m+1$  is not a prime number, is:

A. 3

B. 4

C. 5

D. 6

Ans:B

4. How big will an angle of one and a half degree look through a glass that magnifies things three times?

A.  $1\frac{1}{2}$

B.  $2\frac{1}{2}$

C.  $3\frac{1}{2}$

D.  $4\frac{1}{2}$

Ans: A.  $1\frac{1}{2}$  degrees

Explanation : The magnifying glass cannot increase the magnitude of an angle.

5. 1, 6, 24, 60,120, 210

A. 336

B. 366

C. 330

D. 660

Ans: A. 336

6. A cylindrical container has a radius of eight inches with a height of three inches. Compute how many inches should be added to either the radius or height to give the same increase in volume?

A. 13

B.  $\frac{16}{3}$

C.  $\frac{11}{3}$

D.  $\frac{17}{3}$

Ans: B.  $\frac{16}{3}$  inches

Explanation : Let  $x$  be the amount of increase. The volume will increase by the same amount if the radius increased or the height is increased.

So, the effect on increasing height is equal to the effect on increasing the radius.

i.e.,  $(\frac{22}{7}) * 8 * 8 * (3+x) = (\frac{22}{7}) * (8+x) * (8+x) * 3$

Solving the quadratic equation we get the  $x = 0$  or  $\frac{16}{3}$ . The possible increase would be by  $\frac{16}{3}$  inches.

7. 12 men take 36 days to do a work while 12 women complete  $\frac{3}{4}$  th of the same work in 36 days. In how many days 10 men and 8 women together will complete the same work?

A. 6

B. 27

C. 12

D. Data inadequate

Ans:B

8. If the average marks of three batches of 55, 60 and 45 students respectively is 50, 55, 60, then the average marks of all the students is:

A. 53.33

B. 54.68

C. 55

D. None of these

Ans:B

9. A is the son of C; C and Q are sisters; Z is the mother of Q and P is the son of Z. Which of the following statements is true?

A. P and A are cousins

B. P is the maternal uncle of A

C. Q is the maternal grandfather of A

D. C and P are sisters

Ans:B

10. 39% of a number exceeds 19% of the same by 48. What is the number ?

A.180

B. 260

C. 240

D. 280

Ans:C

11. The total number of digits used in numbering the pages of a book having 366 pages is

A. 732

B. 990

C.1098

D.1305

Ans:B

Explanation: Total number of digits= (No. of digits in 1- digit page nos. + No. of digits in 2-digit page nos. + No. of digits in 3- digit page nos.)

$$= (1 \times 9 + 2 \times 90 + 3 \times 267) = (9 + 180 + 801) = 990$$

12. QAR, RAS, SAT, TAU, \_\_\_\_\_

A. UAV

B. UAT

C. TAS

D. TAT

Ans:A

Explanation: In this series, the third letter is repeated as the first letter of the next segment. The middle letter, A, remains static. The third letters are in alphabetical order, beginning with R.

13. [School] is related to [Education] in the same way as [court] is related to

A. Lawyer

B. Criminal

C. Justice

D.Jugde

Ans:C

14. Nitin's age was equal to square of some number last year and the following year it would be cube of a number. If again Nitin's age has to be equal to the cube of some number, then for how long he will have to wait?

A. 10

B. 38

C. 39

D. 64

Ans:B

Explanation: Clearly, we have to first find two numbers whose difference is 2 and of which the

smaller one is a perfect square and the bigger one a perfect cube.

Such numbers are 25 and 27.

Thus, Nitin is now 26 years old. Since the next perfect cube after 27 is 64,  
so required time period =  $(64 - 26)$  years = 38 years.

15. A and B together can do a piece of work in 30 days. A having worked for 16 days, B finishes the remaining work alone in 44 days. In how many days shall B finish the whole work alone?

A. 30 days

B. 40 days

C. 60 days

D. 70 days

Ans: C