

1. All of the following are examples of real security and privacy risks EXCEPT:

- a) hackers.
- b) spam.
- c) viruses.
- d) identity theft.

2. The ability to recover and read deleted or damaged files from a criminal's computer is an example of a law enforcement specialty called:

- a) robotics.
- b) simulation.
- c) computer forensics.
- d) animation.

3. Which of the following is NOT one of the four major data processing functions of a computer?

- a) gathering data.
- b) processing data into information.
- c) analyzing the data or information.
- d) storing the data or information.

4. _____ is data that has been organized or presented in a meaningful fashion.

- a) A process.
- b) Software.
- c) Storage.
- d) Information.

5. The name for the way that computers manipulate data into information is called:

- a) programming.
- b) processing.
- c) storing.
- d) organizing.

6. Computers use the _____ language to process data.

- a) processing.
- b) kilobyte.
- c) binary.
- d) representational.

7. The term bit is short for:

- a) megabyte.
- b) binary language.
- c) binary digit.
- d) binary number.

8. _____ is a set of computer programs used on a computer to help perform tasks.

- a) An instruction.
- b) Software.
- c) Memory.
- d) A processor.

9. System software is the set of programs that enables your computer's hardware devices and _____ software to work together.

- a) management.
- b) processing.
- c) utility.
- d) application.

10. Servers are computers that provide resources to other computers connected to a:

- a) network.
- b) mainframe.
- c) supercomputer.
- d) client.

11. _____ are specially designed computers that perform complex calculations extremely rapidly.

- a) Servers.
- b) Supercomputers.
- c) Laptops.
- d) Mainframes.

12. ADSL is an example of a _____ connection.

- a) network.
- b) wireless.
- c) slow.
- d) broadband.

13. The key F12 opens a.....in M S Power Point

- a) Save As dialog box.
- b) Open dialog box.
- c) Save dialog box.
- d) Close dialog box.

14. A feature of MS Word that saves the document automatically after certain interval is available on:

- a) Save tab on Options dialog box
- b) Save As dialog box.
- c)) Both of above.
- d) None of above.

15. The module not available in Selo is:

- a) Ops.

- b) PIS.
- c) Production.
- d) Finance.

16. VPNs provide security through _____

- a) MPLS networks only
- b) encrypted leased lines
- c) dedicated hardware firewall
- d) tunneling protocols and encryption

17. Which short cut key inserts a new slide in current presentation?

- a) Ctrl+N
- b) Ctrl+M
- c) Ctrl+S
- d) All of above

18. MAC OS is the product of _____.

- a) Microsoft
- b) Oracle
- c) Linux
- d) Apple

19. _____ is not a image format.

- a) jpeg
- b) png
- c) bmp
- d) pdf

20. Which do you press to enter the current date in a cell?

- a) CTRL+SHIFT+: (colon)
- b) CTRL+; (semicolon)
- c) CTRL+F10
- d) None of these

21. Mail solution in Selo is provided by

- a) Lotus
- b) Nicnet
- c) MS Exchange
- d) NIIT

22. RSA Token is

- a) Selo mail access token
- b) Selo application access token
- c) Security authentication token
- d) Internet authentication token

23. What are the main building blocks of a database?

- a) Lists.
- b) Queries.
- c) Tables.
- d) Data

24. 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

25. Which key on the keyboard can be used to view slide show

- a) F1
- b) F2
- c) F5
- d) F10

26. The programs which are as permanent as hardware and stored in ROM is known as

- a) Hardware
- b) Software
- c) Firmware
- d) ROMware

27. Memory is made up of

- a) Set of wires
- b) Set of circuits
- c) Large number of cells
- d) All of these

28. Which of the following is an advantage to using fiber optics data transmission?

- a) resistance to data theft
- b) fast data transmission rate
- c) low noise level
- d) All of the above

29. SCSI is a term related with

- a) Storage

- b) Network Data Transfer
- c) Keystroke Rate
- d) Picture resolution

30. What is the other name for a LAN Card?

- a) NIC
 - b) Network Connector
 - c) MODEM
 - d) Internet Card
- d) operating systems

31. $55 \div 5.5 - 0.5 = ?$

- a) 9.5
- b) 10
- c) 8.5
- d) 10.5

32. If 20% of a = 40% of b then a: b = ?

- a) 2:3
- b) 3:2
- c) 1:3
- d) 2:1

33. $4 \times ? = 4062 \div 5$

- a) 205.1
- b) 203.1
- c) 213.1

d) 215.1

34. If $\sqrt{4n} = 256$, then n is

a) 2

b) 4

c) 6

d) 8

35. $(16\% \text{ of } 550) \div (Y \% \text{ of } 500) = 2.5$, then y equal to

a) 5.64

b) 8.11

c) 7.04

d) 6.08

36. The average of even numbers from 1 to 20 is

a) 12

b) 11

c) 10

d) 110

37. $26 \times 23 \div 24 = 2x$ then x is equal to

a) 2

b) 3

c) 5

d) 7

38. How many prime factors are there in prime factorisation of 5005

- a) 2
- b) 4
- c) 6
- d) 7

39. If $(2/x) + (3/y) = 13$ and $(5/x) - (4/y) = -2$ then x and y is

- a) 2, 1/3
- b) 1/2, 3
- c) 2, 3
- d) 1/2, 1/3

40. $(\sec A + \tan A)(1 - \sin A) =$

- a) $\sec A$
- b) $\cos A$
- c) $\sin A$
- d) $\operatorname{cosec} A$

41. The angle of elevation of the top of a tower from a point on the ground , which is 30 mt away from the foot of the tower is 30° then height of the tower is

- a) $30\sqrt{3}$ mt
- b) 10 mt
- c) $10\sqrt{3}$ mt
- d) $10/\sqrt{3}$ mt

42. The sum of 15 % of a positive number and 10 % of the same number is 70. What is twice of that number?

- a) 440

- b) 280
- c) 560
- d) 140

43. What would be the simple interest accrued in four years on a principle of Rs. 18440 at the rate of 15 % per annum?

- a) Rs. 11075
- b) Rs. 12205
- c) Rs. 11500
- d) Rs. 11064

44. A box contains 3 blue, 2 white and 4 red marbles. If a marble is drawn at random from the box, the probability that it will be blue

- a) $\frac{1}{3}$
- b) $\frac{1}{2}$
- c) $\frac{2}{3}$
- d) 1

45. Point (-10,0) lies

- a) on the negative direction of x-axis
- b) on the negative direction of y-axis
- c) in the third quadrant
- d) in the fourth quadrant

46. Mohan bought a cycle for Rs. 475 and then sold it at a loss of 8% of the cost price. For how much did he sell the cycle?

- a) Rs. 453

- b) Rs. 419
- c) Rs. 441
- d) Rs. 437

47. $(\sqrt{3}+\sqrt{5})^2 + (\sqrt{3}-\sqrt{5})^2 = ?$

- a) -4
- b) $2(\sqrt{3}-\sqrt{5})$
- c) 16
- d) $2(\sqrt{3}+\sqrt{5})$

48. Find the least number that exactly divided by a 8,12and36

- a) 72
- b) 36
- c) 18
- d) 44

49. A person crosses a 400 mt long street in 8 minute, speed of that person in Km/hr

- a) 5
- b) 0.6
- c) 3.2
- d) 3

50. $(5\pi/3)$ radian =

- a) 150°
- b) 300°

- c) 600°
- d) 200°

51. Which of the following waves cannot propagate in vacuum?

- a) radio Waves
- b) Light waves
- c) X-rays
- d) Ultrasonic waves

52. Which one of the following statements is correct?

A slab of ice kept in a room;

- a) does not radiate heat
- b) does not radiate heat but absorbs heat from the surrounding
- c) radiates heat but absorbs more heat from the surrounding
- d) radiates heat more than that absorbed by it from the surrounding

53. The formula for electrical current is:

- a) Voltage / Resistance.
- b) Resistance \times Voltage.
- c) Voltage + Resistance.
- d) Resistance / Voltage.

54. If a gas in a fixed volume container is heated, the resultant pressure on the gas :

- a) remains the same
- b) increases
- c) decreases
- d) is inversely proportional to the heat.

55. If the current in a circuit equals 0 A, it is likely that the

- a) Voltage is too high
- b) Resistance is too low

- c) circuit has a short
- d) circuit is open

56. How many valence shell electrons are there in semiconductor atoms?

- a) 16
- b) 8
- c) 4
- d) 2

57. An ammeter is used to measure

- a) voltage
- b) current
- c) resistance
- d) all of the above

58. If a waveform period is determined to be 10 microseconds in duration, what is the frequency of the signal?

- a) 100 Hz
- b) 1000 Hz
- c) 10 KHz
- d) 100 KHz

59. What is the name of a device that converts sound waves to electrical waves?

- a) an amplifier
- b) an antenna
- c) a filter

d) a microphone

60. Convert (11001001)₂ to decimal

a) 201

b) 2001

c) 20

d) 210

61. Which of the gas is not known as green house gas?

a) methane

b) nitrous oxide

c) carbon dioxide

d) hydrogen

62. Permanent hardness of water may be removed by the addition of

a) sodium carbonate

b) alum

c) potassium permanganate

d) lime

63. Which of the following is the lightest metal?

a) Mercury

b) Lithium

c) Lead

d) silver

64. Rectifiers are used to convert

- a) Direct current to Alternating current
- b) Alternating current to Direct current
- c) high voltage to low voltage
- d) low voltage to high voltage

65. Sound travels with a different speed in media. In what order does the velocity of sound increase in these media?

- a) Water, iron and air
- b) Iron, air and water
- c) Air, water and iron
- d) Iron, water and air

66. The maximum number of covalent formed by nitrogen is

- a) 2
- b) 3
- c) 4
- d) 1

67. Plants absorb dissolved nitrates from soil and convert them into

- a) free nitrogen
- b) urea
- c) ammonia
- d) proteins

68. O₂ released in the process of photosynthesis comes from

- a) CO₂
- b) water
- c) sugar
- d) pyruvic acid

69. Decibel is the unit used for

- a) speed of light
- b) intensity of heat
- c) intensity of sound
- d) radio wave frequency

70. Anaemia is caused in man due to the deficiency of.....

- a) folic acid
- b) vitamin A
- c) vitamin B12
- d) none

71. Which of the following is a term related with scanners?

- a) Laser
- b) TWAIN
- c) Cartridge
- d) Media

72. The most flexibility in how devices are wired together is provided by.....

- a) bus networks
- b) star networks
- c) ring networks

d) T-switched networks

73. What is max data capacity for optical fiber cable?

- a) 10 mbps
- b) 100 mbps
- c) 1000 mbps
- d) 10000 mbps

74. Which one of the following is a search engine?

- a) Netscape
- b) Java
- c) AltaVista
- d) Internet

75. The unit of Inductance is _____?

- a) Volt
- b) Henry
- c) Weber
- d) Ohm

Sample 1 answer key

1.	B	26.	C	51.	A
2.	C	27.	C	52.	B
3.	C	28.	B	53.	A
4.	D	29.	B	54.	B
5.	B	30.	A	55.	D
6.	C	31.	A	56.	C
7.	C	32.	D	57.	B
8.	B	33.	B	58.	D
9.	D	34.	D	59.	D
10.	A	35.	C	60.	A
11.	B	36.	B	61.	D
12.	D	37.	C	62.	A
13.	C	38.	B	63.	B
14.	A	39.	D	64.	B
15.	C	40.	B	65.	C
16.	D	41.	C	66.	B
17.	B	42.	C	67.	A
18.	D	43.	D	68.	B
19.	D	44.	A	69.	C
20.	B	45.	A	70.	A
21.	A	46.	D	71.	B
22.	C	47.	C	72.	B
23.	C	48.	A	73.	C
24.	A	49.	D	74.	C
25.	C	50.	B	75.	B

- 1. Which device of computer operation dispenses with the use of the keyboard?**
 - a) Joystick
 - b) Light pen
 - c) Mouse
 - d) Touch

- 2. Which output device is used for translating information from a computer into pictorial form on paper?**
 - a) Mouse
 - b) Plotter
 - c) Touch panel
 - d) Card punch

- 3. Which of the following are components of Central Processing Unit (CPU)?**
 - a) Arithmetic logic unit, Mouse
 - b) Arithmetic logic unit, Control unit
 - c) Arithmetic logic unit, Integrated Circuits
 - d) Control Unit, Monitor

- 4. Which among following first generation of computers had?**
 - a) Integrated Circuits
 - b) Magnetic Tape and Transistors
 - c) Vacuum Tubes and Magnetic Drum
 - d) All of above

- 5. If a computer provides database services to other, then it will be known as?**
 - a) Database server
 - b) Web server
 - c) Application server
 - d) FTP server

- 6. In which of the following form, data is stored in computer?**
 - a) Decimal
 - b) Binary
 - c) Octal
 - d) Hexadecimal

- 7. What is full form of GUI in terms of computers?**
 - a) Graphical user Instrument
 - b) Graphical unified Interface
 - c) Graphical unified Instrument
 - d) Graphical user Interface

- 8. What is LINUX?**
 - a) Malware
 - b) Operating System
 - c) Firmware
 - d) Application Program

- 9. Which is most common language used in web designing?**
- a) C
 - b) C++
 - c) PHP
 - d) HTML
- 10. Where are saved files stored in computer?**
- a) RAM
 - b) Hard disk
 - c) Cache
 - d) Any of above
- 11. Which among following is odd?**
- a) CD/DVD
 - b) Floppy Disks
 - c) SD Disk
 - d) BIOS
- 12. MPG is a file extension of which type of files?**
- a) Audio
 - b) Image
 - c) Video
 - d) Flash
- 13. 1 Mega Byte is equal to.....**
- a) 1024 Kilo Bytes
 - b) 1024 Giga Bytes
 - c) 1024 Bytes
 - d) 1024 Bits
- 14. Which is odd one?**
- a) Inkjet Printers
 - b) Laser Printers
 - c) CRT
 - d) Dot Matrix Printers
- 15. Which device among following is used for sending digital data over a phone line?**
- a) USB
 - b) Scanner
 - c) Printer
 - d) Modem
- 16. Which type of software is an operating system?**
- a) Utility Software
 - b) System Software
 - c) Application Software
 - d) Firmware Software

- 17. Intersection of columns and rows is called a?**
- a) Data
 - b) Table
 - c) Cell
 - d) Schema
- 18. Which is responsible for communication between Memory and ALU?**
- a) Keyboard
 - b) RAM
 - c) USB
 - d) Control unit
- 19. Which is a application software among following?**
- a) Assembler
 - b) Compiler
 - c) Operating System
 - d) Microsoft office
- 20. In computer what converts AC to DC?**
- a) SMPS
 - b) RAM
 - c) Adapter
 - d) POST
- 21. Mail solution in SELO is provided by**
- a) Lotus
 - b) Nicnet
 - c) MS Exchange
 - d) NIIT
- 22. Which among following is responsible for finding and loading operating system into RAM?**
- a) DMOS
 - b) BIOS
 - c) CMOS
 - d) Bootstrap Loader
- 23. What are the main building blocks of a database?**
- a) Lists.
 - b) Queries.
 - c) Tables.
 - d) Data
- 24. By pressing which key we can move to beginning of a page?**
- a) Home Key
 - b) Tab Key
 - c) Shift Key
 - d) Window Key

- 25. Computer resolution measures?**
- a) Size of screen
 - b) Shape of screen
 - c) Number of pixels
 - d) Number of colours it support
- 26. Which term is related to database?**
- a) PHP
 - b) Java
 - c) Assembly
 - d) Oracle
- 27. Where cache memory is located?**
- a) Monitor
 - b) CPU
 - c) Scanner
 - d) On file server
- 28. Which among following is odd one?**
- a) RAM
 - b) ROM
 - c) Cache
 - d) Hard Disk
- 29. Which operating system is developed by Apple?**
- a) Linux
 - b) Window
 - c) Mac OS
 - d) DOS
- 30. Which among following is an image name extension?**
- a) gif
 - b) docx
 - c) ppt
 - d) lib
- 31. $5454 \div 54 \div 5 = ?$**
- a) 15.3
 - b) 25.5
 - c) 30.5
 - d) 20.2
- 32. 22% of 364 - ? = 23**

- a) 50.2
- b) 57.8
- c) 53.6
- d) None of these

33. $\sqrt{?} - 5 = \sqrt{2209}$

- a) $(52)^2$
- b) $\sqrt{52}$
- c) 52
- d) None of these

**34. Complete the series -
5, ?, 15, 75, 525, 4725, 51975**

- a) 5
- b) 10
- c) 6
- d) 8

35. The average weight of 21 boys was recorded as 64 Kg. If the weight of the teacher was added, the average increased by one Kg. What was the teacher's weight?

- a) 64 Kg
- b) 86 Kg
- c) 72 Kg
- d) 98 Kg

36. The perimeter of a square is twice the perimeter of a rectangle. If the perimeter of the square is 72 cm and the length of the rectangle is 12 cm, what is the difference between the breadth of the rectangle and the side of the square?

- a) 9 cm
- b) 18 cm
- c) 12 cm

d) 3 cm

37. A truck covers a distance of 640 km in 10 hrs. A car covers the same distance in 8 hrs. What is the respective ratio between the speed of the truck and the car?

a) 3:4

b) 1:2

c) 5:6

d) None of these

38. The respective ratio between Sita's, Riya's and Kunal's monthly income is 84:76: 89. If the annual income is Rs. 456000, what is the sum of Sita's and Kunal's annual income?

a) Rs. 1195000

b) Rs. 983500

c) Rs. 1038000

d) Rs. 1130000

39. The sum of 15% of a positive number and 20% of the same number is 126. What is the one-third of that number?

a) 120

b) 1080

c) 360

d) 40

40. Neeraj incurred a loss of 55% on selling an article for Rs. 9549. What was the cost price of the article?

a) Rs. 27700

b) Rs. 25600

c) Rs. 21220

d) Rs. 29000

41. In how many different ways can the letter of the word "VENTURE" be arranged?

a) 840

- b) 5040
- c) 1260
- d) 2520

42. In order to pass in an exam a student is required to get 780 marks out of the aggregate marks. Sonu got 728 marks and was declared failed by 5%. What are the maximum aggregate marks a student can get in the examination?

- a) 1040
- b) 1100
- c) 560
- d) 1400

43. Harish, Dilip and Asha Start running around a circular stadium and complete one round in 27s, 9s and 36s respectively. In how much time will they meet again at the start at the starting point?

- a) 2 min 36 s
- b) 1 min 48 s
- c) 3 min 11 s
- d) 2 min 25 s

44. 15 year hence, Priya will be just four times as old as she was 15 year ago. Her present age is

- a) 25 year
- b) 15 year
- c) 40 year
- d) 35 year

45. Rajan and sajan started a business initially with Rs. 14200 and Rs. 15600, respectively. If the total profit is Rs. 74500, what is Rajan's share in the profit?

- a) Rs. 39000
- b) Rs. 39600
- c) Rs. 35000

d) Rs. 35500

46. A sum of money doubles itself in 8 years at simple interest. What is rate of interest?

a) 12.5 %

b) 12.8%

c) 12.9 %

d) None of these

47. A and B Take Rs. 660 for doing a piece of work together. If working alone 6 days and 5 days, respectively. A share is.....

a) Rs. 400

b) Rs. 420

c) Rs. 300

d) Rs. 560

48. A train 270 m long passes a standing man in 24 s. What is the speed of the train?

a) 45 km/h

b) 40.5 km/h

c) 20 km/h

d) 20.5 km/h

49. If the length of a rectangle is increased by 40% and the breath is reduced by 20%, what will be the effect on its area?

a) increased by 8%

b) increased by 20%

c) increased by 12%

d) increased by 16%

50. In how much time will a man cover a distance of 4500 m with a speed of 15 km/h?

- a) 10 min
- b) 18 min
- c) 24 min
- d) 16 min

51. Which of the following gases cause global warming?

- a) Oxygen
- b) Carbon dioxide
- c) Nitrogen
- d) Chlorine

52. Hydrogen is considered as good fuel because

- a) its calorific value is high
- b) its burning does not cause pollution
- c) both (a)&(b)
- d) none of these

53. The sun is visible to us a little before the actual sunrise and a little after actual sunset, because of

- a) Diffraction
- b) Scattering
- c) Refraction
- d) Reflection

54. Light travels fastest in

- a) Vacuum
- b) Glass
- c) Air
- d) Iron

55. Rusting of Iron is an example of

- a) Reduction
- b) Oxidation
- c) Both (a)&(b)
- d) Displacement reaction

56. Which of the following is a non-metal that remains liquid at room temperature?

- a) Phosphorous
- b) Bromine
- c) Chlorine
- d) Helium

57. Quartz crystals normally used in quartz clocks etc. is chemically

- a) silicon dioxide
- b) germanium oxide
- c) a mixture of germanium oxide and silicon dioxide
- d) sodium silicate

58. The hardest substance available on earth is

- a) Gold
- b) Iron
- c) Diamond
- d) Platinum

59. What is laughing gas?

- a) Nitrous Oxide
- b) Carbon monoxide
- c) Sulphur dioxide

d) Hydrogen peroxide

60. Production of chlorofluorocarbons (CFC) gas which is proposed to be banned in India, is used in which of the following domestic products?

- a) Television
- b) Refrigerator
- c) Tube light
- d) Cooking gas

61. An atom's atomic number is determined by the number of:

- a) electrons
- b) neutrons & protons
- c) neutrons
- d) protons

62. A voltage will influence current only if the circuit is:

- a) open
- b) insulated
- c) closed
- d) high resistance

63. Primary batteries, unlike secondary batteries, may be:

- a) charged once
- b) used once
- c) stored indefinitely
- d) recharged over & over

64. A voltmeter is used:

- a) to measure current
- b) in series with the circuit
- c) in parallel with the circuit
- d) to measure coulombs

65. An example of potential energy is:

- a) a battery
- b) the sun
- c) a moving vehicle
- d) tea-kettle steam

66. A switch is a device that:

- a) holds a fuse
- b) short circuits complex circuits
- c) has double poles
- d) opens or completes a current path

67. Which electronics material opposes the movement of free electrons?

- a) Conductor
- b) Insulator
- c) Semiconductor
- d) Element

68. A short circuit will have:

- a) no current flow
- b) some current flow
- c) a small current flow
- d) a large current flow

69. What happens to total resistance in a circuit with parallel resistors if one of them opens?

- a) It increases.
- b) It halves.
- c) It decreases.
- d) It remains the same.

70. What is the total resistance of four $1\text{ k}\Omega$ parallel-connected resistors?

- a) 200 ohms
- b) 250 ohms
- c) 400 ohms
- d) 4 kilohms

71. Zener diode is mostly used as _____

- a) Rectifier
- b) voltage regulator
- c) clipper
- d) voltage divider

72. Transformer works on the principal of _____

- a) mutual induction
- b) static induction
- c) stray capacitance
- d) E M radiation

73. Resistance is directly proportional to the _____

- a) voltage
- b) current
- c) temperature
- d) inductance

74. Semiconductor atom has _____ valence electron.

a) 1

b) 2

c) 3

d) 4

75. Atomic number of copper is _____

a) 26

b) 27

c) 28

d) 29

Sample 1 answer key

1.	B	26.	C	51.	A
2.	C	27.	C	52.	B
3.	C	28.	B	53.	A
4.	D	29.	B	54.	B
5.	B	30.	A	55.	D
6.	C	31.	A	56.	C
7.	C	32.	D	57.	B
8.	B	33.	B	58.	D
9.	D	34.	D	59.	D
10.	A	35.	C	60.	A
11.	B	36.	B	61.	D
12.	D	37.	C	62.	A
13.	C	38.	B	63.	B
14.	A	39.	D	64.	B
15.	C	40.	B	65.	C
16.	D	41.	C	66.	B
17.	B	42.	C	67.	A
18.	D	43.	D	68.	B
19.	D	44.	A	69.	C
20.	B	45.	A	70.	A
21.	A	46.	D	71.	B
22.	C	47.	C	72.	B
23.	C	48.	A	73.	C
24.	A	49.	D	74.	C
25.	C	50.	B	75.	B

- 1) Farad is the unit of _____
- Resistance
 - Conductance
 - Capacitance
 - Inductance
- 2) Which of the following remain constant while throwing a ball upward?
- Displacement
 - Kinetic Energy
 - Acceleration
 - Velocity
- 3) The working principle of a washing machine is
- Centrifugation
 - dialysis
 - reverse osmosis
 - diffusion
- 4) A jet engine works on the principle of conservation of _____
- Linear Momentum
 - Angular Momentum
 - energy
 - mass
- 5) Ball bearings are used in bicycles, cars etc because
- The actual area of contact between the wheel and axel is increased.
 - The effective area of contact between the wheel and axel is increased
 - The effective area of contact between the wheel and axel is reduced
 - None of the statement is correct
- 6) In Cricket Match , while catching a fast moving ball, a fielder in the ground gradually pulls his hand backwards with moving ball to reduce the velocity to zero. The act represents _____
- Newton's first law of motion
 - Newton's second law of motion
 - Newton's third law of motion
 - Law of conservation of energy
- 7) Match the column I and Column II

Column I

Column II

- | | |
|-----------------------|---------------------------------------|
| A) Electric Motor | P) Electric energy to Sound Energy |
| B) Electric Bell | Q) Electric energy to Mechanic Energy |
| C) Electric Bulb | R) Light energy to Electrical Energy |
| D) Photoelectric Cell | S) Heat energy to Light Energy |
| E) Steam Engine | T) Electric energy to light energy |
- A-P, B-Q, C-T, D-R, E-S
 - A-Q, B-P, C-T, D-T, E-S
 - A-Q, B-P, C-T, D-S, E-R

- d. A-Q, B-P, C-T, D-R, E-S
- 8) The tendency of a liquid drop to contract and occupy minimum area is due to**
- Surface Tension
 - Viscosity
 - Density
 - Vapor pressure
- 9) When pressure is exerted on an enclosed liquid or gas at rest, it is transmitted equally in all the direction, it is in accordance**
- Boyle's Law
 - Pascal's Law
 - Archimedis' principle
 - Principle of floatation
- 10) The specific gravity of a substance is measured by a hydrometer at the sea level, if the measurement is done at the top of mountain, what would be the specific gravity?**
- Zero
 - More than that measured at the sea level
 - Less than that measured at the sea level
 - Same as that measured at the sea level
- 11) Which one of following is not electromagnetic in nature?**
- Cathode- ray
 - X-ray
 - Gamma rays
 - Infra-red rays
- 12) From a power station, the power is transmitted at a very high voltage because**
- It is generated only at high voltage
 - It is cheaper to produce electricity at high voltage
 - Electricity at high voltage is less dangerous
 - There is less loss of energy in transmission at high voltage
- 13) Conductivity increases in the order of**
- Al, Ag, Cu
 - Al, Cu, Ag
 - Cu, Al, Ag
 - Ag, Cu, Al
- 14) Transformer are used**
- In DC circuit only
 - In AC circuit only
 - In both DC and AC Circuit
 - Neither in DC nor in AC Circuits
- 15) Consider the following statement regarding a motor car battery**
- 1) The voltage is usually 12 V**
 - 2) Electrolyte used in hydrochloric acid**

- 3) Electrodes are lead and copper
- 4) Capacity is expressed in amper- hour

Which of the following statements are correct

- a. 1 and 2
- b. 2 and 3
- c. 3 and 4
- d. 1 and 4

16) Which one among the following is correct order of power consumption for light of equal intensity?

- a. CFL tube < Fluorescent tube < Incandescent bulb < Light emitting Diode
- b. Light emitting Diode < CFL tube < Fluorescent tube < Incandescent bulb
- c. CFL tube < Fluorescent tube < Light emitting Diode < Incandescent bulb
- d. Incandescent bulb < Light emitting Diode < Fluorescent tube < CFL tube

17) Two pieces of metallic wire having equal lengths and equal volume placed in air have different resistance. The two wire must

- a. Have different cross- sections
- b. Have different temperature
- c. Be of different materials
- d. Be of same density

18) Which of the following cannot be fabricated on an IC?

- a. Transistors
- b. Inductors and transformer
- c. diodes
- d. Resistors

19) The wave used in telecommunication are _____

- a. Infrared
- b. Ultraviolet
- c. Microwave
- d. Cosmic rays

20) Repeaters used in telephone links are _____

- a. Rectifiers
- b. Oscillators
- c. Amplifiers
- d. Transformer

21) Which one among the following radiations carries maximum energy?

- a. Ultraviolet rays
- b. Gamma rays
- c. X-Rays
- d. Infrared rays

- 22) Fluorescent tubes are fitted with a choke. The choke coil _____
- Steps up the line voltage
 - Steps down the line voltage
 - Reduces current in the circuit
 - Chokes low frequency current
- 23) Why are inner lining of hot water geysers made up of copper?
- Copper has low heat capacity
 - Copper has high electrical Conductivity
 - Copper does not react with steam
 - Copper is good conductor of both heat and electricity.
- 24) Which zone of a candle flame is the hottest?
- Dark inner most zone
 - Outermost zone
 - Middle luminous zone
 - Central Zone
- 25) Three bulbs of 40 W, 60W and 100W are connected in series to a current source of 200V. Which of the following statement is true?
- 40W bulb glows brightest
 - 60W bulb glows brightest
 - 100W bulb glows brightest
 - All bulb glow with same brightness
- 26) If the area of a circle is decreased by 36%. Then the radius of the circle is decreased by
- 20%
 - 18%
 - 36%
 - 64%
- 27) The floor of a rectangular room is 15m long and 12m wide. The room is surrounded by a Verandah of width 2m on all its sides. The area of the Verandah is
- 124 m²
 - 120 m²
 - 108 m²
 - 158 m²
- 28) The area of a triangle is 615m². If one of its side is 123m, find the length of the perpendicular dropped on that side from opposite vertex.
- 15m
 - 12m
 - 10m
 - 18m
- 29) A car covers a distance of 540km in 9 hours. Speed of a train is double the speed of a car. Two third the speed of the train is equal to speed of bike. How much distance will the bike cover in 5 hour?

- a. 450Km
- b. 360Km
- c. 400Km
- d. 500Km

30) A man starts from B to K and another from K to Bat the same time. After passing each other they complete their journeys in $3\frac{1}{3}$ and $4\frac{1}{2}$ hour respectively. Find the speed of the second man if the speed of the first is 12 kmph

- a. 12.5 kmph
- b. 10 kmph
- c. 12.66 kmph
- d. 20 Kmph

31) Three taps A, B, and C can fill a tank in 12, 15 and 20 Hours respectively. If A is open all the time and B and C open for One hours each alternately, then tank will be full in

- a. 6hrs
- b. $6\frac{2}{3}$ hrs
- c. 7 hrs
- d. $7\frac{1}{3}$ hrs

32) A is 30% more efficient than B. How much time will they working together take to complete a job which A alone could have done in 23 days.

- a. 11 days
- b. 13 days
- c. $20\frac{3}{17}$ days
- d. None of these

33) Computer A takes 3 minutes to process an input while Computer B takes 5 minutes. If Computer A, B and C can process an average of 14 inputs in one hour, how many minutes does computer C alone take to process one input?

- a. 10
- b. 4
- c. 6
- d. 8

34) The ratio of the ages of A and B seven year ago was 3:4 respectively. The ratio of their ages nine year from now will be 7:8 respectively. What is B's age at present?

- a. 16 years
- b. 19 years
- c. 28 years
- d. 23 years

35) The largest and second largest angles of a triangle are in the ratio of 13:12. The smallest angle is 20% of the sum of the largest and second largest angles. What is the sum of the smallest and the second largest angles?

- a. 120°
- b. 108°
- c. 100°

d. 102^0

36) The total of the ages of a class of 75 girls is 1050, the average age of 25 of them is 12 years and that of another 25 is 16 years. Find the average age of the remaining girls.

- a. 12 years
- b. 13 years
- c. 14 years
- d. 15 years

37) The average of 5 consecutive even numbers A, B, C, D and E is 52. What is the product of B and E?

- a. 2916
- b. 2988
- c. 3000
- d. 2800

38) Mohan bought a jute bag @ 30% discount on the list price. He then sold it at a price which was 160% of the list price thereby making a profit of Rs 81. What is the list price of the bag?

- a. 90
- b. 100
- c. 180
- d. 200

39) A man sold two articles at Rs 375 each. On one he gains 25% and on the other he loses 25%. The gain or loss on the whole transaction is

- a. 6%
- b. $4\frac{1}{2}\%$
- c. Rs 50
- d. $6\frac{1}{4}\%$

40) The profit percent of a bookseller if he sells a book at marked price after enjoying a commission of 25% on marked price will be

- a. 30%
- b. 25%
- c. 20%
- d. $33\frac{1}{3}\%$

41) What will be the difference between the compound interest and simple interest at the rate of 5% p.a. on an amount of Rs 4000 at the end of two years?

- a. 10
- b. 20
- c. 30
- d. Data inadequate

42) Rahul has borrowed Rs. 20000 from two money lenders. On one he had to pay 8% p.a. S.I. per year and on the other amount he had to pay 12% p.a. S.I. After 3 Years, he paid total interest of Rs 5760, Find the amount borrowed at 12% p.a.

- a. 12000
- b. 8000
- c. 5000
- d. 10000

43) 71% of a number is more than its 46% by 120. What is 30 % of that number?

- a. 160
- b. 150
- c. 144
- d. 148

44) $\sqrt{?} + 17 = \sqrt{961}$

- a. 169
- b. 256
- c. 225
- d. 196

45) What is the least number to be added to 3986 to make it a perfect square?

- a. 118
- b. 95
- c. 110
- d. 100

46) One Terabyte (1TB) is equal to _____

- a. 1028GB
- b. 1000GB
- c. 1012 GB
- d. 1024 GB

47) Number of bit used by the IPv6 address

- a. 32 bit
- b. 64 bit
- c. 128 bit
- d. 256 bit

48) Which of the following is not a database management software?

- a. MySQL
- b. Oracle
- c. Sybase
- d. COBOL

49) How many layers are in the TCP/IP Protocol ?

- a. 7
- b. 5
- c. 4
- d. 8

50) Flip Flop circuit store _____ data.

- a. One bit
- b. One byte
- c. 8 bit
- d. 8 byte

51) System software is an interface between

- a. Application software and Users
- b. Hardware and Application software
- c. RAM and ROM
- d. CPU and UPS

52) ASC II has how many codes?

- a. 64
- b. 128
- c. 256
- d. 382

53) In context of computer, FAT stands for.

- a. Folder Access Table
- b. File Access Table
- c. File Allocation Table
- d. Folder Allocation Table

54) Caches are usually built out of

- a. SRAM
- b. DRAM
- c. PROM
- d. EEPROM

55) Which of the following does not work on the principle of magnetization?

- a. Hard disk drive
- b. Floppy disk drive
- c. Magnetic Tape
- d. Pen drive

56) A DNS translate a domain name into _____

- a. Binary
- b. Hex
- c. IP
- d. URL

57) Key logger is a

- a. Firmware
- b. Antivirus
- c. Spyware
- d. All the above

58) In MS word, which would you choose to save a document with a new name?

- a. Click file, Save As

- b. Click File, Save
- c. Press Ctrl+S
- d. None of the above

59) In MS Word, to convert a hyperlink e-mail address to regular text, right click the email address and then click ___ on the short cut menu.

- a. Select Hyperlink
- b. Remove Hyperlink
- c. Edit Hyperlink
- d. None of the above

60) In MS Word, the contents of the clipboard remain the same until

- a. You cut other text
- b. You shut down your computer
- c. You copy the other text
- d. All the above

61) What is the shortcut key for “cut” the selected text in MS word?

- a. Ctrl + U
- b. Ctrl + Z
- c. Ctrl + C
- d. Ctrl + X

62) In MS Word, what is the shortcut keys for “subscript”

- a. Ctrl + +
- b. Ctrl + shift + +
- c. Ctrl + Shift + =
- d. Ctrl + =

63) Which key do you press to force a page break in MS Word?

- a. Ctrl + Insert
- b. Shift + Enter
- c. Ctrl + Enter
- d. None of the above

64) Which is not a font style in MS Word?

- a. Superscript
- b. Regular
- c. Bold
- d. Italic

65) Which enables us to send the same letter to different persons, in MS Word?

- a. Mail Merge
- b. Macros
- c. Both a and b
- d. None of the above

66) In MS Excel the cell range of A2 to M12 is

- a. A2!M12
- b. A2;M12

- c. A2M12
- d. A2:M12

67) In MS Excel to create a formula, you can use

- a. Value and Cell references
- b. Value but not Cell reference
- c. Cell reference but not values
- d. None of the above.

68) What is the shortcut key to insert new sheet in current workbook?

- a. Alt + F11
- b. Ctrl + F11
- c. Shift + F11
- d. None of the above

69) In MS Excel which of the following function will use to find the highest number in series of number?

- a. High(B1: B3)
- b. MAX(B1: B3)
- c. MAXIMUM (B1 : B3)
- d. None of the above

70) What are the tabs that appear at the bottom of each workbook called?

- a. Location tabs
- b. Sheet tab
- c. Reference tabs
- d. None of the above

71) In Microsoft Power point in order to see all the slides on one screen use

- a. Reading View
- b. Outlines View
- c. Note page View
- d. Slide sorts view

72) Which of the following term is not related to the wifi security?

- a. WPA
- b. GSM
- c. WEP
- d. AES

73) What type of connector is used to plug a telephone line into a modem?

- a. COM1
- b. RJ45
- c. RJ10
- d. RJ45

74) A distributed network configuration in which all data/information pass through a central computer is

- a. Bus
- b. Star
- c. Ring
- d. Point to Point

75) Firewalls are designed to perform all the following except.....

- a. Limiting security exposures
- b. Logging internet activity
- c. Enforcing the organization's security policy
- d. Protecting against viruses

Sample 3 answer key

26.	C	51.	C	76.	A
27.	C	52.	C	77.	A
28.	A	53.	B	78.	B
29.	C	54.	C	79.	D
30.	D	55.	C	80.	B
31.	A	56.	C	81.	A
32.	A	57.	A	82.	B
33.	D	58.	C	83.	D
34.	B	59.	C	84.	B
35.	D	60.	A	85.	B
36.	C	61.	D	86.	D
37.	C	62.	C	87.	C
38.	D	63.	B	88.	A
39.	C	64.	A	89.	D
40.	C	65.	D	90.	C
41.	B	66.	D	91.	D
42.	C	67.	A	92.	B
43.	B	68.	C	93.	B
44.	C	69.	A	94.	B
45.	D	70.	A	95.	B
46.	B	71.	C	96.	D
47.	C	72.	B	97.	C
48.	D	73.	B	98.	C
49.	B	74.	A	99.	B
50.	C	75.	C	100.	C

- 1. From what location are the 1st computer instructions available on boot up?**
 - a) ROM BIOS
 - b) CPU
 - c) boot.ini
 - d) CONFIG.SYS

- 2. With respect to a network interface card, the term 10/100 refers to**
 - a) protocol speed
 - b) a fiber speed
 - c) megabits per seconds
 - d) minimum and maximum server speed

- 3. A hard disk is divided into tracks which are further subdivided into:**
 - a) clusters
 - b) sectors
 - c) vectors
 - d) heads

- 4. The mouse pointer moves erratically, what is the possible cause? The mouse**
 - a) ball is dirty
 - b) is not connected
 - c) driver is not installed properly
 - d) has an incorrect IRQ setting

- 5. Which provides the fastest access to large video files?**
 - a) Optical drives
 - b) IDE hard drives
 - c) SCSI hard drives
 - d) EIDE hard drives

- 6. RS-232 is a standard that applies to:**
 - a) serial ports
 - b) parallel ports
 - c) game ports
 - d) networks

- 7. On a dot matrix printer, you should never lubricate which part?**
 - a) carriage rails
 - b) paper advance bearings
 - c) carriage bearings
 - d) printhead pins

- 8. _____ helps to prevent power surges.**
- a) Surge suppressor
 - b) Spike protector
 - c) UPS system
 - d) High-grade multi-meter
- 9. If the memory slots have 30 pins then the chip is a?**
- a) DIMM
 - b) SIMM
 - c) SDRAM
 - d) All of the above
- 10. What is a common language that computers use to talk with one another on a network**
- a) client
 - b) adapter
 - c) protocol
 - d) operating systems
- 11. IDE cables have how many pins?**
- a) 10
 - b) 30
 - c) 24
 - d) 40
- 12. The brain of any computer system is**
- a) ALU
 - b) CPU
 - c) Memory
 - d) control Unit
- 13. What difference does the 5th generation computer have from other generation computers?**
- a) Technological advancement
 - b) Scientific code
 - c) Object Oriented Programming
 - d) All of above
- 14. The binary system uses powers of**
- a) 8
 - b) 4

- c)) 32
- d) 2

15. A computer program that converts assembly language to machine language is

- a) Compiler
- b) Interpreter
- c) Assembler
- d) Assembler

16. Which device of computer operation dispenses with the use of the keyboard?

- a) Joystick
- b) Light pen
- c) Mouse
- d) Touch

17. Which output device is used for translating information from a computer into pictorial form on paper.

- a) Mouse
- b) Plotter
- c) Touch panel
- d) Card punch

18. An optical input device that interprets pencil marks on paper media is

- a) O.M.R
- b) Punch card reader
- c) Optical scanners
- d) Magnetic tape

19. The device that can both feed data into and accept data from a computer is

- a) ALU
- b) CPU
- c) Input-Output device
- d) All of the above

20. All formula start with which sign in ms-excel

- a) +
- b) =
- c) \$

d) @

21. Bios stands for

- a) basic input output system
- b) better input output sys
- c) best input output system
- d) basic input output series

22. RSA Token is

- a) Selo mail access token
- b) Selo application access token
- c) Security authentication token
- d) Internet authentication token

23. Window Vista is.....software

- a) Application
- b) Utility
- c) Virus
- d) System

24. Which of the following is latest Office package

- a) MS Office 2010
- b) MS Office 2007
- c) MS Office XP
- d) MS Office 2013

25. The operating system of a computer serves as a software interface between the user and

- a) hardware
- b) peripheral
- c) memory
- d) screen

26. The programs which are as permanent as hardware and stored in ROM is known as

- a) Hardware
- b) Software
- c) Firmware
- d) ROMware

27. Which of the following is an advantage to using fiber optics data transmission?

- a) resistance to data theft
- b) fast data transmission rate
- c) low noise level
- d) All of these

28. A device that links two homogeneous packet-broadcast local networks, is

- a) hub
- b) bridge
- c) repeater
- d) gateway

29. What is the first octet range for a class C IP address?

- a) 192 - 223
- b) 192 - 255
- c) 192 - 226
- d) 128 - 191

30. What is the other name for a LAN Card?

- a) NIC
- b) Network Connector
- c) MODEM
- d) Internet Card

31. 6 42 294 2058 14406 ?

- a) 100842
- b) 72030
- c) 129654
- d) 115248

32. 13 20 14 19 15 ?

- a) 16
- b) 18
- c) 21
- d) 17

33. 2 16 112 672 3360 13440

- a) 43240
- b) 3430
- c) 3340
- d) 40320

34. $7825 - 9236 + 5234 = ? * 25$

- a) 152.92
- b) 152.29
- c) 125.92
- d) 12529

35. $5\ 13\ 25\ 41\ ?\ 85\ 113$

- a) 64
- b) 68
- c) 61
- d) 36

36 The product of two relative prime numbers is 143. Find their HCF

- a) 3
- b) 9
- c) 13
- d) 1

37. The least number which when divided by 9, 11, and 15 leaves as remainder in each case, is

- a) 495
- b) 503
- c) 530
- d) 580

38. Find the least number that is exactly divided by 8, 12, and 36

- a) 36
- b) 18
- c) 36
- d) 72

39. Which is the greatest number which will divide 1600 and 1420 exactly ?

- a) 10
- b) 15
- c) 20
- d) 25

40. In a school, all the students can stand in a row so that each row has 5, 9, 10 students. Find the least number of students in the school.

- a) 90
- b) 95

- c) 85
- d) 100

- 41. The sum of two number is 10. Their product is 20. The sum of the reciprocals of the two numbers is**
- a) 1
 - b) $\frac{3}{5}$
 - c) $\frac{1}{2}$
 - d) $\frac{11}{6}$
- 42. Find the sum of all even number natural number upto 74.**
- a) 1518
 - b) 1471
 - c) 1618
 - d) 1406
- 43. 51% of a number is 714. What is 28% of that number?**
- a) 378
 - b) 392
 - c) 351
 - d) 364
- 44. The sum of first 20 odd natural numbers is equal to**
- a) 400
 - b) 300
 - c) 420
 - d) 210
- 45. If 3 4 a 6 8 is to be divisible by 9, the value of missing digit, a should be**
- a) 5
 - b) 8
 - c) 7
 - d) 6
- 46. Two-third of 10% Of 60% of A is 32, Find the value of A**
- a) 750
 - b) 600
 - c) 800
 - d) 900
- 47. The price of a computer is Rs 20000. What will be the price of computer after reduction of 25%?**
- a) 12000
 - b) 15000
 - c) 21000
 - d) 18000
- 48. 46% Of 156 – 23.76 = ?**

- a) 48
- b) 48.10
- c) 47
- d) 47.10

49. $(12.999)^3 = ?$

- a) 1800
- b) 2000
- c) 2200
- d) 1500

50. $940.9 + 9.9 + 90.09 + 99.9999 = ?$

- a) 1141.699
- b) 1230.799
- c) 294.88
- d) 1140.889

51. A continuous flow of electron is called

- a) current
- b) conductor
- c) resistance
- d) potential difference

52. A charge produced due to gain of an electron is.....

- a) positive charge
- b) negative charge
- c) neutral
- d) heating energy

53. What is the electric potential of the earth.

- a) one
- b) two
- c) four
- d) zero

54. Ohm's law is valid for.....

- a) conductor only
- b) semiconductor only
- c) insulator only
- d) resistance only

55. If a bulb is taken out of a parallel circuit

- a) the other bulb will go out as well
- b) the other bulb will continue to glow
- c) none of the above
- d) either (a) or (b)

56. Core of strong electromagnet consist of

- a) steel
- b) copper
- c) lead
- d) soft iron

57. During short circuit current in the circuit

- a) reduces
- b) remain same
- c) increase heavily
- d) vary continuously

58. Fuse is a small piece of wire generally prepared from alloy of.....

- a) Tin and copper
- b) Tin and lead
- c) Tin and aluminium
- d) Tin and iron

59. Which of the following is renewable energy?

- a) Nuclear energy
- b) Fossil energy
- c) Wind energy
- d) Hydro energy

60. The component of solar radiation that carries heat with it is

- a) Infrared red radiation
- b) Ultra violet radiation
- c) Photons
- d) Quantum

61.is natural gas produced from waste products.

- a) Nitrogen gas
- b) Gasohol
- c) Hydrogen gas
- d) Biogas

62. The energy of moving wind is called

- a) Kinetic
- b) Light
- c) Heat
- d) Potential

63. The formula for electrical current is:

- a) Voltage / Resistance.
- b) Resistance \times Voltage.
- c) Voltage + Resistance.
- d) Resistance / Voltage.

- 64. The energy stored in petrol is.....**
- a) mechanical
 - b) chemical
 - c) heat
 - d) all of the above
- 65. If the current in a circuit equals 0 , it is likely that the**
- a) Voltage is too high
 - b) Resistance is too low
 - c) circuit has a short
 - d) circuit is open
- 66. Abiotic factor do not include.....**
- a) Bacteria
 - b) Soil
 - c) Temperature
 - d) Water
- 67. Plants are also called**
- a) Decomposers
 - b) Heterotrophs
 - c) Autotrophs
 - d) Scavengers
- 68. Ozone is a molecule formed by how many oxygen atoms?**
- a) 2
 - b) 3
 - c) 1
 - d) 4
- 69. Light travels in a straight line because.....**
- a) It consists of small particles
 - b) Light is reflected by surrounding
 - c) The wavelength of light is very small
 - d) all of the above
- 70. How does a mirror work?**
- a) By reflecting the light
 - b) By absorbing the light
 - c) By transmitting the light
 - d) all of the above
- 71. E.N.T specialist uses.....mirror for examination of ear, nose and throat**
- a) convex
 - b) concave

- c) plane
- d) Either (b) or (c)

72. When light passes from one medium to another, the characteristic that remains unaffected is

- a) Speed
- b) Direction
- c) Wavelength
- d) Frequency

73 Which is an expanded form of DNA

- a) Deoxyribose nucleic acid
- b) Dichloro-nucleic acid
- c) Dichloro nitric acid
- d) Denitrified nucleic acid

74 The wings of a birds and butterfly are.....

- a) Vestigial organs
- b) Homologous organs
- c) Analogous organs
- d) None of these

75 Light travels faster in :

- (A) Vacuum
- (B) Glass
- (C) Air
- (D) Iron

Sample 4 answer key

51.	C	76.	A	101.	A
52.	A	77.	A	102.	B
53.	A	78.	C	103.	C
54.	A	79.	A	104.	A
55.	C	80.	B	105.	D
56.	B	81.	C	106.	B
57.	D	82.	B	107.	C
58.	A	83.	C	108.	A
59.	B	84.	D	109.	B
60.	D	85.	D	110.	D
61.	A	86.	C	111.	D
62.	D	87.	D	112.	A
63.	B	88.	A	113.	C
64.	B	89.	D	114.	B
65.	D	90.	D	115.	A
66.	B	91.	A	116.	D
67.	C	92.	A	117.	A
68.	B	93.	C	118.	B
69.	C	94.	D	119.	B
70.	C	95.	C	120.	B
71.	B	96.	D	121.	D
72.	C	97.	C	122.	B
73.	D	98.	D	123.	D
74.	B	99.	B	124.	B
75.	A	100.	A	125.	D

- 1) **Which of the following memories must be refreshed many times per second?**
 - a. ROM
 - b. RAM
 - c. Dynamic RAM
 - d. EPROM
- 2) **Which of the following is not a function of an operating system**
 - a. Resource Management
 - b. File Management
 - c. Database Management
 - d. Memory Management
- 3) **Which of the following memories has the shortest access times?**
 - a. Cache memory
 - b. Magnetic bubble Memory
 - c. Magnetic core memory
 - d. RAM
- 4) **A 32 bit microprocessor has the word length equal to**
 - a. 2 byte
 - b. 32 byte
 - c. 4 byte
 - d. 8 byte
- 5) **CD-ROM**
 - a. Is a semiconductor memory
 - b. Memory register
 - c. Magnetic Memory
 - d. None of the above
- 6) **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 the above
- 7) **What is the full form of TCP?**
 - a. Transmission control protocol
 - b. Transmission communication protocol
 - c. Transformation Control Protocol
 - d. Transmission central pass
- 8) **Which is not an Operating System?**
 - a. Linux
 - b. Macintosh
 - c. Windows
 - d. Open Office
- 9) **Operating System keeps the information Files in_____.**

- a. DIT
- b. FFT
- c. FAT
- d. FIT

10) All of the following are examples of real security and privacy risks EXCEPT

- a. Viruses
- b. Identity theft
- c. Hackers
- d. Spam

11) In the binary language each letter of the alphabet , each number and each special character is made up of a unique combination of

- a. Eight bytes
- b. Eight characters
- c. Eight bits
- d. Eight kilobytes

12) The base of hexadecimal number system is

- a. 2
- b. 10
- c. 16
- d. 8

13) Which of the following are true about firewalls?

- a. Follows a set of rules
- b. Can be either a hardware or software device
- c. Filters network traffic
- d. All of the above

14) All of the following statements concerning files are true Except:

- a. A file is a collection of related pieces of information stored together for easy reference.
- b. Files can be generated from an application.
- c. Files are stored in RAM.
- d. Files should be organized in folders.

15) What is the shortcut key of printing a document for computer having windows?

- a. Shift + P
- b. Alt + P
- c. Ctrl + P
- d. Ctrl + Shift + P

16) Copying file from Internet Server to client computer is called

- a. Telnet
- b. FTP
- c. Internet Copy

- d. Message copy

17) If all devices in Computer Networking are connected to a central hub, then topology is called

- a. Bus Topology
- b. Ring Topology
- c. Star Topology
- d. Tree Topology

18) What is the use of bookmarks in Microsoft Word?

- a. To easily correct the spelling errors
- b. To quickly jump to a specific location in the document
- c. To quickly jump to the end of document
- d. To create a link within a document

19) What is a shortcut -key for manual line break in MS Word?

- a. CTRL + Enter
- b. Alt + Enter
- c. Shift + Enter
- d. Space + Enter

20) Which of the following is correct regarding Underline in MS Word 2010?

- a. Color of the Underline can be changed
- b. Style of Underline can be changed
- c. Underline can be set by using shortcut Key
- d. All of the above

21) How to use Format Painter multiple times in MS Word 2010

- a. By Clicking on Lock Format Painter Icon
- b. By DoubleClicking on Format Painter Icon
- c. By selecting Edit> Format Painter> Multiple Use
- d. Format Painter cannot be used multiple times

22) What enables us to send the same letter to different person in MS Word?

- a. Template
- b. Macros
- c. Mail merge
- d. None

23) Which would you choose to save a Document with new name in MS Word 2010?

- a. Press Ctrl + S
- b. Click File, Save
- c. Click Tools, Option, Save
- d. Click File, Save as

24) What does .com domain represents

- a. Education domain
- b. Commercial Domain
- c. Communication Domain
- d. Connection Domain

25) The cell reference for a cell range of G2 to M12 is _____

- a. G2.M12
- b. G2;M12
- c. G2:M12
- d. G2-M12

26) RJ-45 UTP cable has _____ cable.

- a. 2 pair
- b. 3 pair
- c. 4 pair
- d. 5 pair

27) Find the odd one out of the following in respect of SELO modules.

- a. Personnel
- b. Operation
- c. Pay
- d. Inventory

28) SQL stands for.....

- a. Standard Query Language
- b. Structured Query Language
- c. Standard Quota Limit
- d. Sequenced Quota Language

29) Muster Roll is available undermodule.

- a. Personnel
- b. Operations
- c. Finance
- d. Inventory

30) DSS Stands for

- a. Document Support System
- b. Data Support System
- c. Decision Support System
- d. Data Structure and Support

31) $22/7$ is a

- a. Real number
- b. Rational number
- c. Irrational number
- d. Composite number

32) A rectangular field is surrounded on all sides by 1 m pathway. Length and breadth of field is 60m and 40m. Find the area of pathway.

- a. 204sqm
- b. 208sqm
- c. 210sqm
- d. 216sqm

33) The sum of all the angles of a octagon is

- a. 900
- b. 980
- c. 1080
- d. 1200

34) From a deck of 52 cards we draw 2 cards one by one without replacement. Find the probability that both cards are Aces.

- a. $1/103$
- b. $1/104$
- c. $1/221$
- d. $1/241$

35) $\sin 90^\circ \times \sin 30^\circ =$

- a. $1/2$
- b. $1/4$
- c. $1/2.5$
- d. 1

36) A man buys an article for Rs. 27.50 and sells it for Rs 28.60. Find his gain percent

- a. 1%
- b. 2%
- c. 3%
- d. 4%

37) A clock strikes once at 1 o'clock, twice at 2 o'clock, thrice at 3 o'clock and so on. How many times will it strike in 24 hours?

- a. 78
- b. 136
- c. 156
- d. 196

38) The average of first 50 natural numbers is

- a. 25.30
- b. B. 25.5
- c. C. 25.00
- d. D. 12.25

39) Which of the following numbers gives 240 when added to its own square?

- a. 15
- b. 16
- c. 18
- d. 20

40) How many surfaces are there in a cube?

- a. 3
- b. 4
- c. 5
- d. None of these

41) What should be added to $53/7$ to get 12?

- a. $7/25$
- b. $9/34$
- c. $2/59$
- d. $46/7$

42) Two numbers are in ratio 4 : 5. If the sum of the numbers is 135, find the numbers.

- a. 60 and 75
- b. 50 and 65
- c. 70 and 95
- d. 65 and 75

43) A car can cover a distance of 522 km on 36 liters of petrol. How far can it travel on 14 liters of petrol?

- a. 213 km.
- b. 223 km.
- c. 203 km.
- d. 302 km.

44) The square root of 0.0081 is

- a. 0.09
- b. 0.9
- c. 0.91
- d. 0.009

45) All natural numbers and 0 are called the numbers.

- a. Whole
- b. Prime
- c. Integer
- d. Rational

46) The wages of 10 workers for a six-day week is Rs 1200. What will be the one day's wage of 4 workers?

- a. Rs 40
- b. Rs 32
- c. Rs 80
- d. Rs 24

47) If $\cos A = 4/5$ the $\tan A =$

- a. $3/5$
- b. $3/4$
- c. $4/3$
- d. $5/3$

48) Ram cycling at constant speed of 10 km/hr reaches his school in time. If he cycles at a constant speed of 15km/hr then he reaches his school 12minutes early. Distance of school is _____ kms.

- a. 4
- b. 6

- c. 9
- d. 12

49) Find the missing number in the series 5, 12, _____, 54, 110.

- a. 26
- b. 24
- c. 18
- d. 20

50) Kamal is 5 years older than Raj who is thrice as old as Arun. If sum of their ages is 40, how old is Raj?

- a. 5
- b. 10
- c. 15
- d. 20

51) Thermistors work on the principle of

- a. Resistance vary with temperature
- b. Voltage vary with temperature
- c. Current varies with temperature
- d. Temperature vary with voltage

52) Transformers work on the principle of

- a. Mutual Inductance
- b. Magnetism
- c. Ohms Law
- d. Resonance

53) The current flowing through a wire is 9 amperes and the resistance is 7 ohms and for 1 minute, find the heat loss in k cal.

- a. 9.4
- b. 8.1
- c. 10
- d. 11

54) SI Unit of conductivity is

- a. ohm/m
- b. ohm/m²
- c. mho/m²
- d. siemens/m

55) What is the purpose of choke in Tube light?

- a. High current on filaments
- b. Gives high voltage at filaments
- c. Gives both high voltage and current at filaments
- d. None of these

56) SI Unit of magnetic flux is

- a. weber
- b. weber/m²

- c. volt-seconds/m²
- d. volt ampere/m

57) Two charged bodies having equal potential are connected

- a. Current will flow
- b. Current will not flow
- c. Current will flow if resistor is connected
- d. Can't say

58) Which of the following represents the relation between charge(Q) potential difference(V) and work done(W)

- a. $V=WXQ$
- b. $W=V/Q$
- c. $V=Q/W$
- d. $V=W/Q$

59) The voltmeter is always connected in _____ across the points along which potential difference is to be measured.

- a. series
- b. parallel
- c. either series or parallel
- d. none of these

60) An electric fuse works on the principle

- a. chemical effect of the current
- b. heating effect of the current
- c. magnetic effect of the current
- d. none of these

61) On which of the following no plus or minus sign is marked

- a. Battery
- b. Voltmeter
- c. Ammeter
- d. Resistor

62) An electric charge in uniform motion produces:

- a. Electric field only
- b. Magnetic field only
- c. Both electric and magnetic field
- d. No such field at all

63) A current is passed through a straight wire. the magnetic field established around it has its line of force _____

- a. Circular and endless
- b. Oval in shape and endless
- c. Straight lines
- d. All of the above

64) The core of electromagnet is

- a. Nickel

- b. Steel
- c. Copper
- d. Soft iron

65) Unit of electric field is

- a. volts per m^2
- b. coulomb per m^2
- c. newton per coulomb
- d. newton volt per meter

66) Copper contains _____ electrons

- a. 24
- b. 26
- c. 27
- d. 29

67) Resistivity of a wire depends on

- a. Length
- b. Material
- c. Cross section area
- d. None of the above.

68) Resistance of a wire is r ohms. The wire is stretched to double its length, then its resistance in ohms is

- a. $r/2$
- b. $4r$
- c. $2r$
- d. $r/4$.

69) Kirchhoff's second law is based on law of conservation of

- a. Charge
- b. Energy
- c. Momentum
- d. Mass

70) Two bulbs marked 200 watt-250 volts and 100 watt-250 volts are joined in series to 250 volts supply. Power consumed in circuit is

- a. 33 watt
- b. 67 watt
- c. 100 watt
- d. 300 watt.

71) Ampere second could be the unit of

- a. Power
- b. Conductance
- c. Energy
- d. Charge

72) An electric current of 5 A is same as

- a. 5 J/C

- b. $5 \text{ V} / \text{C}$
- c. $5 \text{ C} / \text{sec}$
- d. $5 \text{ w} / \text{sec}$.

73) A circuit contains two un-equal resistances in parallel

- a. current is same in both
- b. large current flows in larger resistor
- c. potential difference across each is same
- d. Smaller resistance has smaller conductance.

74) The conductivity of a good conductor _____ with temperature.

- a. increases
- b. decreases
- c. can't say
- d. none of the above

75) Four wires of same material, the same cross sectional area and the same length when placed in parallel give a total resistance of 0.25 ohm . if the same four wires are connected in series find the effective resistance.

- a. 1 ohm
- b. 2 ohm
- c. 4 ohm
- d. 8 ohm

Sample 5 answer key

76.	A	101.	C	126.	A
77.	C	102.	D	127.	B
78.	B	103.	B	128.	D
79.	A	104.	A	129.	A
80.	C	105.	A	130.	B
81.	A	106.	A	131.	D
82.	D	107.	A	132.	C
83.	A	108.	D	133.	B
84.	B	109.	A	134.	C
85.	C	110.	C	135.	A
86.	D	111.	D	136.	D
87.	B	112.	B	137.	A
88.	A	113.	D	138.	A
89.	D	114.	C	139.	B
90.	C	115.	A	140.	D
91.	C	116.	C	141.	A
92.	B	117.	D	142.	C
93.	A	118.	B	143.	B
94.	C	119.	A	144.	C
95.	B	120.	D	145.	A
96.	A	121.	C	146.	B
97.	C	122.	B	147.	D
98.	D	123.	A	148.	A
99.	D	124.	C	149.	C
100.	A	125.	D	150.	A

Sample2 answer key

101.	C	126.	D	151.	B
102.	B	127.	B	152.	C
103.	B	128.	D	153.	C
104.	C	129.	C	154.	A
105.	A	130.	A	155.	B
106.	B	131.	D	156.	B
107.	D	132.	D	157.	A
108.	B	133.	A	158.	C
109.	D	134.	A	159.	A
110.	B	135.	B	160.	B
111.	D	136.	C	161.	D
112.	C	137.	D	162.	C
113.	A	138.	C	163.	B
114.	C	139.	A	164.	C
115.	D	140.	C	165.	A
116.	B	141.	D	166.	D
117.	C	142.	A	167.	B
118.	D	143.	B	168.	D
119.	D	144.	A	169.	A
120.	A	145.	D	170.	B
121.	A	146.	A	171.	B
122.	D	147.	C	172.	A
123.	C	148.	B	173.	C
124.	A	149.	C	174.	D
125.	C	150.	B	175.	D

Part-II

76. Write an essay / article on any one of the following in about 150-200 words. 10

- i) Terrorism and role of CRPF
- ii) Un-employment
- iii) Pen is mightier than the sword
- iv) Human rights and protection

77. Read the passage carefully and give the correct answer of the following 05

The enjoyment of physical possession of things would seem to be one of the prerogatives of wealth which has been little impaired. Presumably nothing has happened to keep the man who can afford them from enjoying his Rembrandt and his homegrown orchids. But enjoyment of things has always been associated with the third prerogative of wealth which is the distinct it confers. In a world where nearly everyone was poor, the distinction was very great. It was the natural consequence of rarity. In England it is widely agreed, the ducal families are not uniformly superior. There is a roughly normal incidence of intelligence and stupidity, good taste and bad taste, morality, immorality. But very few people are dukes and duchesses, although the later have become rather more frequent with modern easing of divorce laws. As a result, even though they may be intrinsically unexceptional they are regarded with some awe. So it has long have been with the rich. Were dukes numerous their position would deteriorate. As the rich have become more numerous, they have inevitably becomes a debased currency.

1. The distinction conferred by wealth

- A. was unfair to the poor
- B. **was unlikely to spread throughout the world**
- C. was very great when there were many rich people
- D. was very great when there were few rich people

2. The enjoyment of the physical possession of things

- A. is one of the privileges of wealth which has not been changed
- B. is one of the privileges of wealth which should be curtailed
- C. **has little to do with the prerogatives of wealth**
- D. is a prerogative of wealth which cannot be disputed

3. Ducal families in England

- A. are generally agreed to be fairly common

- B. **are generally agreed to be fairly superior**
- C. are superior because they are rich
- D. are generally agreed not to be always better than others

4. There are more duchesses now because

- A. **it is easier for dukes to divorce and remarry**
- B. dukes are more immoral than they used to be
- C. their position has deteriorated
- D. they are debased

5. Among the ducal families

- A. there is great deal of immortality
- B. there is a fairly even spread of virtues and vices
- C. there is a great deal of bad taste
- D. **there is either great intelligence or great stupidity**

78. a) Out of the given alternatives , choose the one which best expresses the meaning of the given words :

10

i. Ad-hoc

- (A) Temporary (B) Internal (C) Interval (D) Timely

ii. Indolent

- (A) Vigorous (B) Forceful (C) lazy (D) sluggish

b) Choose the one which can be substituted for the given words/sentence :

i. One who forcibly seizes control of a bus or an aircraft :

- (A) Pirate (B) Swindler (C) Hijacker (D) Pilferer

ii. A process involving too much official formality :

(A) Nepotism (B) Diplomacy (C) Red-tapism (D) Bureaucracy

c) Choose the correct word for blanks :

i. He left the bookthe telephone.

(A) around (B) beside (C) besides (D) at

ii. Will you my dog while I am on tour ?

(A) look out (B) look up (C) look on (D) look after

iii. He has no objectionmy proposal.

(A) to (B) for (C) in (D) towards

iv. Geeta said that she had never a book she liked so much.

(A) saw into (B) come across (C) held upon (D) viewed on

d) 'Dog' is related to 'Kennel' in the same way as 'Bird' is related to :

(A) Tree (B) Nest (C) Chirp (D) Fly

e) 'Umpire' is related to 'Match' in the same way as 'Judge' is related to

(A) Court (B) Lawyer (C) Judgment (D) Witness

Answer for subjective of sample1

Q. 77

- 1) B
- 2) C
- 3) B
- 4) A
- 5) D

Q. 78 a)

- I) A
- II) D

b)

- I) C
- II) C

c)

- I) B
- II) D
- III) A
- IV) C

d) B

e) A

Part II

76) Write an essay on any one, in appx. 150 word, topic from the following: 00 marks

- a) Cashless transaction
- b) Naxalism and its influence
- c) Computer and its role in life today

77) Read the following passage carefully and give the correct answer 05 marks

Soft bodied animals like caterpillars often fall a prey to voracious hunters like birds or reptiles. Despite having no means to 'actively' defend themselves, with weapons like claws or jaws, they have nevertheless, evolved other equally effective deterrents. A particular species of the caterpillar lives at an altitude over 2.500 meters in the Himalayas. It uses prominent colour to inform would be predators of its in edibility. In the event that an inexperienced or adventurous bird did eat the caterpillar, it would probably vomit it soon after, and subsequently desist from attacking similar species in future, though this would do the unfortunate victim no good, the species benefits a rare example of the martyr among animals.

- i). The expression "others equally effective deterrents" mean
 - A. preventive weapons which have equal effect of others
 - B. mechanism which scares everyone equally well
 - C. preventive equipment which it is as effective as something that has been already mentioned in the passage
 - D. deterrents that are as powerful as those the caterpillars have

- ii). Experienced birds do not attack the Himalayan caterpillars because they are
 - A. repulsive

B. very aggressive

C. inedible

D. diseased

iii). The Himalayan caterpillar uses prominent colours to

A. warn the predator

B. attack the predator

C. reveal itself

D. defend itself

iv). Caterpillars cannot defend themselves because

A. are passive animals

B. are lazy

C. cannot acquire weapons

D. have no claws or jaws

v). In the context of this passage, a martyr is one who dies

A. without putting up resistance

B. without any gain to oneself

C. while defending ones homeland

D. to save others

Fill in the blanks with appropriate word:

78. More men adore the sun rising than the sun.....
- a) blazing b) darkening c) shining d) setting
79. His first failure did nothim from making another attempt.
- a) deter b) cure c) forbid d) defeat
80. The cold did not make him ill but made him merely.....
- a) sick b) hungry c) indisposed d) vomit
81. He.....smell of gas in the kitchen.
- a) detected b) saw c) took d) determined

Choose the nearest correct meaning or synonym of the words given below:

82. PERSUADE
- a) assure b) cheat c) motivate d) convince
83. TRAIT
- a) symbol b) characteristic c) habit d) colour

Choose the most suitable antonym of the words given below:

84. APPROPRIATE
- a) unable b) unadjust c) unsuitable d) unskilled
85. DIMINUTIVE
- a) enlarged b) bright c) small d) admonitory

Arrange the given sentences to form a coherent paragraph.

86. A. You would be very surprised indeed to find it hot.
B. Cold, of course
C. And yet that was what I found when I visited North Island, the northern part of New Zealand
D. When you go bathing in a river or a pond, do you expect the water to be hot or cold?

a) ABCD b) ADBC c) DBAC d) DBCA

87. A. But all work is not education.
B. In India, a majority of our people do hard work, strenuous physical work, but all are not educated.
C. It aims at concrete and objective realization of the ideas and is of great educative value.
D. "Work" is that activity of man which has a definite objective.

a) DCAB b) CADB c) CDBA d) BACD

Answer for subjective of sample2

Q. 77

- i) B
- ii) C
- iii) A
- iv) D
- v) D

Q. 78 d

Q. 79 b

Q. 80 c

Q. 81 a

Q. 82 d

Q. 83 b

Q. 84 c

Q. 85 a

Q. 86 c

Q. 87 a

Part II

76) Write an essay / article on any one of the following in about 150-200 words. 10

- i) Swachh bharat abhiyaan
- ii) The role of the CRPF during natural calamity and disaster
- iii) Unemployment
- iv) Poverty

77) Read the passage carefully and give the correct answer of the following 05

At this stage of civilization, when many nations are brought in to close and vital contact for good and evil, it is essential, as never before, that their gross ignorance of one another should be diminished, that they should begin to understand a little of one another's historical experience and resulting mentality. It is the fault of the English to expect the people of other countries to react as they do, to political and international situations. Our genuine goodwill and good intentions are often brought to nothing, because we expect other people to be like us. This would be corrected if we knew the history, not necessarily in detail but in broad outlines, of the social and political conditions which have given to each nation its present character.

1. According to the author of 'Mentality' of a nation is mainly product of its
 - A. **history**
 - B. international position
 - C. politics
 - D. present character
2. The need for a greater understanding between nations
 - A. was always there
 - B. is no longer there
 - C. **is more today than ever before**
 - D. will always be there
3. According to the author his countrymen should
 - A. read the story of other nations

- B. **have a better understanding of other nations**
 - C. not react to other actions
 - D. have vital contacts with other nations
4. The character of a nation is the result of its
- A. mentality
 - B. cultural heritage
 - C. gross ignorance
 - D. **socio-political conditions**
5. Englishmen like others to react to political situations like
- A. us
 - B. **themselves**
 - C. others
 - D. each others

Out of given alternatives choose the one which best expresses the meaning of the given words: 10

78. Traverse

- a) Mingle
- b) frustrate
- c) take
- d) cross

79. Redeem

- a) Raise
- b) fulfill
- c) reconsider
- d) Recover

Fill in the blanks with appropriate word:

80. The victorious armythrough the fallen city.

- a) attacked
- b) ran
- c) disturbed
- d) disbursed

Choose the correctly spelt word

81. a) atenuate b) attenuate c) atinuate d) attenuate

82. a) facinate b) fasinate c) fascinate d) fascinet

Choose the correct alternative

83. I saw aof wolves remaining around the forest.

- a) fleet b) group c) herd d) pack

84. A light rain.....to the humidity.

- a) added b) increased c) supplemented d) complemented

85. She stood there with tearsdown her neck.

- a) rolling b) dropping c) falling d) shedding

86. The cold did not make him ill but made him merely

- a) sick b) hungry c) indisposed d) unwilling

87. I admire him because for all his achievements he is

- a) humble b) modest c) gentle d) quiet

Answer for subjective of sample3

Q. 77

- 1) A
- 2) C
- 3) B
- 4) D
- 5) B

Q. 78 D

Q. 79 D

Q. 80 B

Q. 81 B

Q. 82 C

Q. 83 D

Q. 84 A

Q. 85 A

Q. 86 C

Q. 87 B

PART-II

Question 76) Read the passage below and answer the questions given below (1x5)

Emanating from the Indian kitchens every morning are the appetizing aromas of crushed spices, lentils, curry leaves and vegetables and working with her deft fingers and loving heart is the woman of the house creating 'the great Indian home cooked meal'.

This is where the 'dabbawallas' sensed a business opportunity way back in 1980 - the idea of delivering home cooked meals to office-goers and their workplace and returning empty meal boxes to their homes before their return in the evening. Today 'dabbawallas' have become integral part of Mumbai's cultural mosaic. About 5000 of these delivery men crisscross the streets, lanes and by lanes of Mumbai, on foot, bicycle and local train, every morning to deliver about 2,00,000 home cooked meal boxes to office goers at their workplaces. What amazes business strategists across the world is the unique process of near faultless delivery, which even convinced Forbes magazine to give them the highly-prized Sigma Six Rating for quality assurance, a feat achieved by companies such as Motorola and General Electric.

"The success of the system depends on teamwork and time management that would be the envy of every modern manager. Such is the dedication and commitment of the barely literate and barefoot delivery men who form links in the extensive delivery chain, that there is no system of documentation at all."

They do not rely on any high technology data bases or computers for communication. Instead they use colours and code markings for identification. "Each container carries an indelible ink alphanumeric coding of some ten characters signifying the various transfer and delivery stages, as well as the individuals who are to be involved in the process."

One of the major reason for the success of this delivery service is the high-level of personal involvement, relationship orientation and continuous communication with their clients and amongst themselves. Memorizing about 35 addresses from where they must pick up the boxes it becomes critical for the dabbawalla to keep the flow of information continuous as any miscommunication might result in the unpardonable error of serving a non-vegetarian meal to a pure vegetarian, an act blasphemous enough to wash away all the good deeds of the person in a single stroke.

- a) What is possibly the most appropriate title for the passage?
- b) What is the meaning of word appetizing?
- c) Give the word which is most nearly the same in meaning as the word "indelible" as used in the passage.
- d) According to the passage, what is the major reason for success of dabbawallas in Mumbai?
- e) According to the passage, which qualities of the dabbawallas of Mumbai would make even a modern manager envy?

Question 77: Do as directed

(10)

1) **Change the voice:**

- a) Sita loves Savitri.
- b) Why did your brother write such a letter?

2) **Correct the sentence and rewrite the sentence.**

- a) The river was spanned by Iron Bridge.
- b) The doctor says it is hopeless case.

3) **Change the verb to the past tense and rewrite the sentence again**

- a) The wind blows furiously.
- b) She sings sweetly.

4) **Insert the adverb “NEVER” in the sentence below and rewrite the sentence.**

- a) I am determined to yield to this point.
- b) He is in time for meals.

5) **Pick out the adjectives from the sentences below and write them.**

- a) I have not seen him for several days.
- b) He was absent last week.

Question 78: Write an essay on any one of the topics below in 200 words.

(10)

- a) The clean India mission “SwachhtaAbhiyan”.
- b) Role of CRPF in maintaining internal security of the country.
- c) Information Technology the future ahead.

Answer for subjective of sample4

Q. 76.

- a) Dabbawallas of Mumbai : Six sigma communication
- b) Stimulating or tempting
- c) Permanent
- d) High level of personal involvement and communication with the clients
- e) Team work and time management

Q. 77

- 1) a) Savitri is loved by sita.
 b) Why was such a letter written by your brother.
- 2) a) an
 b) a
- 3) a) blew
 b) sang
- 4) a) I am determined never to yield to this point.
 b) He is never in time for meals.
- 5) a) Several
 b) last

Part II

76) Write an essay on any one, in appx. 150 word, topic from the following: 00 marks

- a) Three Gifts I Value
- b) Social Networking : Its benefits and disadvantages
- c) India of my dream

77) Read the following passage carefully and give the correct answer 05 marks

He saw nothing, he had no knife or sharp instrument, the grating of the window was of iron and he had too often assured himself of its solidity. His furniture consisted of a bed, a chair, a table, a pail, and a jug. The bed had iron clamps, but they were screwed to the wall and it would have required a screwdriver to take them off.

Dantes had but one resource which was to break the jug and with one of the sharp fragments attack the wall. He left the jug fall on the floor and it broke in pieces. He concealed two or three of the sharpest fragments in his bed, leaving the rest on the floor. The breaking of the jug was too natural an accident to excite suspicion, and next morning gaoler went grumblingly to fetch another, without giving himself the trouble to remove the fragments. Dantes heard joyfully the key grate in the lock as guard departed.

1. Dantes was in
 - A. a hostel
 - B. a dining room
 - C. an army barracks
 - D. a prison

2. Dantes heard the key grate in the lock when the
 - A. cell door was shut
 - B. cell door was opened

C. storeroom was opened

D. storeroom was shut

3. The guard left the fragments because he

A. didn't notice them

B. wished to punish Dantes

C. was too lazy to bother

D. wanted Dantes to clear up

4. Dantes probably broke the jug

A. in the morning

B. during the night

C. after breakfast

D. at exactly 3pm

5. Dantes was planning to

A. carve his name

B. make his escape

C. tease the guard

D. call for breakfast

Fill in the blanks with appropriate word:

78. The entire village condoled.....the jawan's widow in her bereavement.
a) in b) for c) with d) on
79. The thief made.....all money.
a) up b) off with c) do with d) good
80. Sachin's batting in this inning did not come.....my expectations
a) to b) off c) in d) upto
81. The treasurer.....the funds and.....
a) stole, fled b) embezzled, absconded c) robbed, decamped d) cheated, ran
82. The manager was.....but was later reinstated.
a) dismissed b) punished c) promoted d) censured
83. The influence of the environment on man is revealed by an.....study.
a) anthropological b) ecological c) epigraphic d) numismatic
84. A great literary or artistic work is known as.....
a) pot pourri b) par excellence c) bête noire d) magnum opus
85. The Chairman will come here at 5 pm to.....a lecture.
a) deliver b) attain c) take d) speak
86. I had no friends who would call upon me and break theof my daily existence.
a) rig our b) mystery c) monotony d) zeal

87 There could not be any.....about an unequal match between them. For in the country everyone is nearly equal.

- a) trust b) shivers c) scruples d) scarcity

Answer for subjective of sample5

Q. 77

- 1) D
- 2) D
- 3) C
- 4) B
- 5) B

Q. 78 C

Q. 79 B

Q. 80 D

Q. 81 B

Q. 82 A

Q. 83 B

Q. 84 D

Q. 85 A

Q. 86 C

Q. 87 C