

GOVERNMENT OF MIZORAM
POWER & ELECTRICITY DEPARTMENT

**COMBINED COMPETITIVE EXAMINATION FOR
RECRUITMENT TO 6 DIFFERENT TECHNICAL POSTS
(AUGUST -2026)**

PAPER-II (COMMON PAPER)
**(SIMPLE ARITHMETIC & BASIC COMPUTER
KNOWLEDGE)**

Full Marks : 200
Time Allowed : 3 Hours

Signature of Invigilator _____

CODE :

(For official use)

SUBJECT	MARK CARRIED BY EACH QUESTION / TOPIC	NO. OF CORRECT ANSWERS	MARKS OBTAINED
Simple Arithmetic	2		
Basic Computer Knowledge	2		
TOTAL			

Signature of Examiner : _____

GOVERNMENT OF MIZORAM
POWER & ELECTRICITY DEPARTMENT

**COMBINED COMPETITIVE EXAMINATION FOR
RECRUITMENT TO 6 DIFFERENT TECHNICAL POSTS
(AUGUST -2026)**

PAPER-II (COMMON PAPER)
**(SIMPLE ARITHMETIC & BASIC COMPUTER
KNOWLEDGE)**

Full Marks : 200
Time Allowed : 3 Hours

Roll No. : _____

Signature of Invigilator _____

CODE :

(For official use)

All questions carry 2 marks.

Put a tick ($\checkmark$) mark against the correct answer in the space given in each question.

If a candidate gives more than one answer to one question, it will be treated as wrong answer even if one of the given answers happens to be correct.

SIMPLE ARITHMETIC - 100 MARKS

1. If $m = -4$, $n = -2$, then the value of $m^3 - 3m^2 + 3m + 3n + 3n^2 + n^3 = ?$
(a) -120 ()
(b) -124 ()
(c) **-126** ()
(d) -128 ()
2. Solve: $[(64 - 38) \times 4] \div 13 = ?$
(a) 1 ()
(b) 4 ()
(c) 2 ()
(d) **8** ()
3. If $x = 1 + \sqrt{2}$ and $y = 1 - \sqrt{2}$, find the value of $(x^2 + y^2)$
(a) 12 ()
(b) **6** ()
(c) 4 ()
(d) 9 ()
4. A shop of electronic goods is closed on Monday. The average daily sales for remaining six days of a week is ₹ 15,640/- and the average sale of Tuesday to Saturday is ₹ 14,124/-. The sales on Sunday is?
(a) ₹ 20,188/- ()
(b) ₹ 22,764/- ()
(c) **₹ 23,220/-** ()
(d) ₹ 21,704/- ()
5. State Electricity Board gives 15% discount on electric bills if it is paid before due date. One person gets ₹ 54 as discount. The amount of the actual bill was:
(a) ₹ 362 ()
(b) ₹ 359 ()
(c) **₹ 360** ()
(d) ₹ 361 ()
6. The marked price is 10% higher than the cost price. A discount of 10% is given on the marked price. In this kind of sale, the seller:
(a) gains 2% ()
(b) **loses 1%** ()
(c) gains 1% ()
(d) bears no loss, no gain ()

7. A man bought pencils at the rate of 6 for ₹ 4 and sold them at the rate of 4 for ₹ 6. His gain in the transaction is?
- (a) 125% ()
- (b) 100% ()
- (c) 80% ()
- (d) 75% ()
8. What number has to be added to the terms of 3 : 5 to make the ratio 5 : 6?
- (a) 6 ()
- (b) 7 ()
- (c) 12 ()
- (d) 13 ()
9. Arun, Kamal and Vinay invested ₹ 8000, ₹ 4000 and ₹ 8000 respectively in a business. Arun left after six months. If after eight months, there was a gain of ₹ 4005, then what will be the share of Kamal?
- (a) ₹ 890 ()
- (b) ₹ 1335 ()
- (c) ₹ 1602 ()
- (d) ₹ 1780 ()
10. If 5 men or 7 women can earn ₹ 5250 per day, how much would 7 men and 13 women earn per day?
- (a) ₹ 11600 ()
- (b) ₹ 11700 ()
- (c) ₹ 16100 ()
- (d) ₹ 17100 ()
11. Rosa can eat 32 laddus in one hour. Her sister Lila needs three hours to eat the same number. How much time will they take to eat 32 laddus together?
- (a) 45 minutes ()
- (b) 60 minutes ()
- (c) 75 minutes ()
- (d) 90 minutes ()
12. A man travels for 5 hours 15 minutes. If he covers the first half of the journey at 60 km/h and the rest at 45 km/h. Find the total distance travelled by him.
- (a) 135 km ()
- (b) 189 km ()
- (c) 270 km ()
- (d) 378 km ()
13. If the simple interest for 6 years be equal to 30% of the principal, it will be equal to the principal after:
- (a) 10 years ()
- (b) 20 years ()
- (c) 22 years ()
- (d) 30 years ()

14. The compound interest accrued on an amount of ₹ 25500 at the end of 3 years is ₹ 8440.50. What would be the simple interest accrued on the same amount at the same rate in the same period?
- (a) ₹ 4650 ()
- (b) ₹ 5650 ()
- (c) ₹ 6650 ()
- (d) ₹ 7650 ()
15. The perimeter of a rectangle is 60 metres. If its length is twice its breadth, then its area is:
- (a) 160 m^2 ()
- (b) 180 m^2 ()
- (c) **200 m^2** ()
- (d) 220 m^2 ()
16. The volume of a cube is numerically equal to the sum of its edges. What is the total surface area in square units?
- (a) 36 ()
- (b) 66 ()
- (c) **72** ()
- (d) 183 ()
17. In how many different ways can the letters of the word ALLAHABAD be arranged?
- (a) 3780 ()
- (b) 1890 ()
- (c) **7560** ()
- (d) 2520 ()
18. If the height of a pole is $2\sqrt{3}$ metres and the length of its shadow is 2 metres, find the angle of elevation of the sun.
- (a) 0° ()
- (b) 30° ()
- (c) 45° ()
- (d) **60°** ()
19. The ratio of milk to water in 80 litres of a mixture is 7 : 3. The water (in litres) to be added to it to make the ratio 2 : 1 is:
- (a) **4** ()
- (b) 5 ()
- (c) 6 ()
- (d) 8 ()
20. A runs twice as fast as B and B runs thrice as fast as C . The distance covered by C in 72 minutes, will be covered by A in?
- (a) **12 minutes** ()
- (b) 16 minutes ()
- (c) 18 minutes ()
- (d) 24 minutes ()

21. The sum of the place values of 3 in the number 503535 is:
- (a) 6 ()
(b) 60 ()
(c) **3030** ()
(d) 3300 ()
22. Out of 100 students in a class, 60 take tea, 40 take coffee and 25 take both. The number of students not taking either tea or coffee is:
- (a) **25** ()
(b) 20 ()
(c) 30 ()
(d) 75 ()
23. A rationalising factor of $(\sqrt[3]{9} - \sqrt[3]{3} + 1)$ is:
- (a) $\sqrt[3]{3} - 1$ ()
(b) $\sqrt[3]{3} + 1$ ()
(c) $\sqrt[3]{9} - 1$ ()
(d) $\sqrt[3]{9} + 1$ ()
24. Out of 10 teachers of a school, one teacher retires and in place of him, a new teacher who is 25 years old joins. As a result, the average age of the teachers reduces by 3 years. Age of the retired teacher (in years) is:
- (a) 60 ()
(b) 58 ()
(c) 56 ()
(d) **55** ()
25. If A's income is 50% less than that of B, then B's income is what percent more than that of A?
- (a) 50 ()
(b) 75 ()
(c) **100** ()
(d) 125 ()
26. Raju purchased an item for ₹ 8200 and sold it at a gain of 25%. From that amount he purchased another item and sold it at a loss of 20%. What is his overall gain/loss?
- (a) Loss of ₹ 120 ()
(b) Gain of ₹ 120 ()
(c) Loss of ₹ 140 ()
(d) **No loss or gain** ()
27. The value of a machine depreciates every year at the rate of 10% on its value at the beginning of that year. If the present value of the machine is ₹ 729, its worth three years ago was:
- (a) ₹ 947.70 ()
(b) **₹ 1000** ()
(c) ₹ 750.87 ()
(d) ₹ 800 ()

28. If $A : B = 4 : 5$, $B : C = 7 : 9$ and $C : D = 3 : 4$, and if A 's share is ₹ 1680, the share of D is:
- (a) ₹ 2100 ()
(b) ₹ 2700 ()
(c) ₹ 2900 ()
(d) ₹ 3600 ()
29. Two numbers x and y are in the ratio $5 : 7$ and their sum is 36. Then x is:
- (a) 12 ()
(b) 15 ()
(c) 18 ()
(d) 19 ()
30. Three men started a business with a capital of ₹ 3000, B invests ₹ 600 less than A and C invests ₹ 300 less than B . What is B 's share in a profit of ₹ 886?
- (a) ₹ 443 ()
(b) ₹ 354.40 ()
(c) ₹ 265.80 ()
(d) ₹ 177.20 ()
31. If a quarter kg of potato costs 60 paise, how many paise will 200 gm cost?
- (a) 48 paise ()
(b) 54 paise ()
(c) 56 paise ()
(d) 72 paise ()
32. 12 men can do a piece of work in 24 days. How many days are needed to complete the work, if 8 men do this work?
- (a) 28 ()
(b) 36 ()
(c) 48 ()
(d) 52 ()
33. A car covers the first 39 kms of its journey in 45 minutes and covers the remaining 25 km in 35 minutes. What is the average speed of the car?
- (a) 64 km/h ()
(b) 49 km/h ()
(c) 48 km/h ()
(d) 40 km/h ()
34. A train running at the speed of 60 kmph crosses a 200 m long platform in 27 seconds. What is the length of the train?
- (a) 200 metres ()
(b) 240 metres ()
(c) 250 metres ()
(d) 450 metres ()

35. A sum of money lent out at simple interest amounts to ₹ 720 after 2 years and to ₹ 1020 after a further period of 5 years. The sum is?
- (a) ₹ 600 ()
- (b) ₹ 700 ()
- (c) ₹ 710 ()
- (d) ₹ 500 ()
36. The sum of money which when given on compound interest at 18% per annum would fetch ₹ 960 more when the interest is payable half yearly than when it was payable annually for 2 years is:
- (a) ₹ 60,000 ()
- (b) ₹ 30,000 ()
- (c) ₹ 40,000 ()
- (d) ₹ 50,000 ()
37. The area of a circle whose radius is the diagonal of a square whose area is 4 sq. units is:
- (a) $16p$ sq. units ()
- (b) $4p$ sq. units ()
- (c) $6p$ sq. units ()
- (d) $8p$ sq. units ()
38. A rectangular paper of 44 cm long and 6 cm wide is rolled to form a cylinder of height equal to the width of the paper. The radius of the base of the cylinder so rolled is:
- (a) 3.5 cm ()
- (b) 5 cm ()
- (c) 7 cm ()
- (d) 14 cm ()
39. In how many ways can a committee of 4 people be chosen out of 8 people?
- (a) 32 ()
- (b) 70 ()
- (c) 110 ()
- (d) None of these ()
40. An observer 1.6 m tall is $20\sqrt{3}$ m away from a tower. The angle of elevation from his eye to the top of the tower is 30° . The height of the tower is:
- (a) 21.6 m ()
- (b) 23.2 m ()
- (c) 24.72 m ()
- (d) 20 m ()

Direction (Question Nos. 41 – 45) : Study the following table carefully and answer the questions that follow:

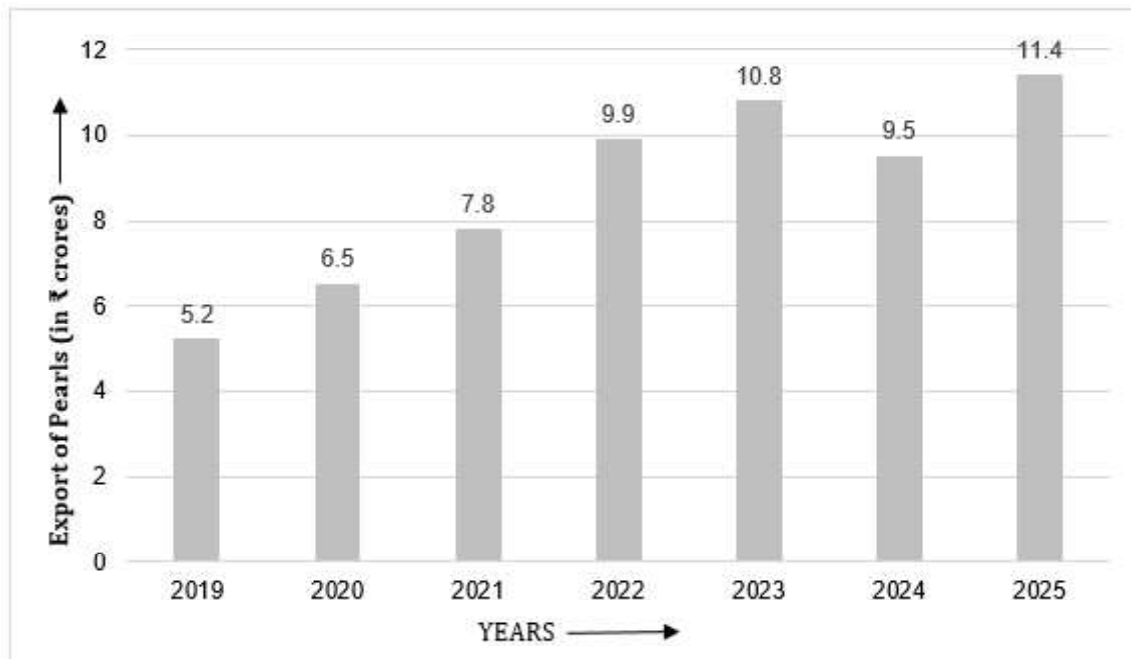
Semester fees (in ₹ thousands) for five different courses in 6 different years

Years	Course				
	B. Tech	M. Sc	B. Ed	M. Phil	Diploma
2020	11.5	5.8	7.5	4.7	1.8
2021	14.5	6.4	11.6	5.8	3.2
2022	20.0	10.2	13.9	8.6	4.8
2023	22.2	14.6	15.8	12.7	5.6
2024	35.8	17.7	18.5	25.1	12.5
2025	50.7	20.9	22.6	18.9	14.9

41. What was the percentage increase in the semester fees of B. Ed course in the year 2022 as compared to the previous year?
- (a) 26% ()
- (b) **19.8%** ()
- (c) 16.9% ()
- (d) 18.9% ()
42. What was the average semester fee charged for M. Sc course over all the years together?
- (a) ₹ 12700 ()
- (b) **₹ 12600** ()
- (c) ₹ 12060 ()
- (d) ₹ 12070 ()
43. What was the difference between the total semester fee charged for Diploma course over the years together and the fee charged for B. Tech Course in the year 2024?
- (a) ₹ 8500 ()
- (b) ₹ 8000 ()
- (c) ₹ 6500 ()
- (d) **₹ 7000** ()
44. The semester fee charged for M. Phil course in the year 2023 was approximately what percentage of the semester fee charged for M. Sc course in the year 2024?
- (a) **72** ()
- (b) 67 ()
- (c) 76 ()
- (d) 84 ()
45. What was the total semester fee charged for all the courses together in the year 2021?
- (a) ₹ 42500 ()
- (b) ₹ 42200 ()
- (c) **₹ 41500** ()
- (d) ₹ 41600 ()

Direction (Question Nos. 46 – 50) : Study the following bar-graph carefully and answer the questions that follow:

Export of Pearls (in ₹ crores)



46. The average export of pearls for the given period (in ₹ crores) was:
- (a) 8.7 ()
- (b) 8.73** ()
- (c) 9.73 ()
- (d) 8.85 ()
47. In which year was there maximum percentage increase in export of pearls to that in the previous year?
- (a) 2020 ()
- (b) 2025 ()
- (c) 2023 ()
- (d) 2022** ()
48. In how many years was the export above average for the given period?
- (a) 2 ()
- (b) 3 ()
- (c) 4** ()
- (d) 5 ()
49. In which of the following pairs of years was the average export of pearls around ₹ 9 crores?
- (a) 2020 & 2021 ()
- (b) 2021 & 2022** ()
- (c) 2022 & 2023 ()
- (d) 2023 & 2024 ()

50. What was the percentage increase in export from 2024 to 2025?

- (a) **20%** ()
- (b) 9.09% ()
- (c) 26.92% ()
- (d) 25% ()

BASIC COMPUTER KNOWLEDGE - 100 MARKS

51. Integrated Circuits or ICs are related to which generation of computers?

- (a) First generation ()
- (b) Second generation ()
- (c) **Third generation** ()
- (d) Fourth generation ()

52. The CPU is made up of which two smaller parts?

- (a) **ALU and CU** ()
- (b) ALU and RAM ()
- (c) RAM and ROM ()
- (d) RAM and CU ()

53. A computer executes program in the sequence of:

- (a) Execute, Fetch, Decode ()
- (b) Store, Fetch, Execute ()
- (c) **Fetch, Decode, Execute** ()
- (d) Decode, Fetch, Execute ()

54. Example of non-impact printers are:

- (a) Laser-Dot matrix ()
- (b) **Inkjet-Laser** ()
- (c) Inkjet-Dot matrix ()
- (d) Dot matrix ()

55. Kilobyte equals to how many bytes?

- (a) 1035 ()
- (b) 1000 ()
- (c) 1008 ()
- (d) **1024** ()

56. Which of the following is an example of non-volatile memory?

- (a) **ROM** ()
- (b) RAM ()
- (c) LSI ()
- (d) VLSI ()

57. A Compact Disk (CD) is which type of data storage?
- (a) Magnetic ()
 - (b) Optical** ()
 - (c) Electrical ()
 - (d) Electro-mechanical ()
58. Which of the following is a software?
- (a) Keyboard ()
 - (b) Internet Explorer** ()
 - (c) Scanner ()
 - (d) Mouse ()
59. What do you understand by the term booting?
- (a) The process of starting the computer from the power-off position.** ()
 - (b) Connecting computer to the electric switch. ()
 - (c) Increasing the memory of the computer. ()
 - (d) The process of shutting down a computer. ()
60. Windows operating system is _____ and _____.
- (a) multitasking, multi user ()
 - (b) multi user, single tasking ()
 - (c) single user, multitasking** ()
 - (d) single tasking, single user ()
61. In a GUI, what are 'windows' typically used for?
- (a) Cleaning up temporary files ()
 - (b) Air conditioning control ()
 - (c) Opening command prompts ()
 - (d) Managing running applications** ()
62. Which of the following is **NOT** a core visual component of a GUI?
- (a) Icon ()
 - (b) Command Line** ()
 - (c) Button ()
 - (d) Cursor ()
63. In MS-Word, Spelling Check is a feature available in which tab?
- (a) File ()
 - (b) Home ()
 - (c) Insert ()
 - (d) Review** ()
64. Which of the following statements about margin in MS Word is correct?
- (a) All sections in a document need to have same margin. ()
 - (b) Different sections can have different margins.** ()
 - (c) Word has pre-defined margin settings for all documents. ()
 - (d) It depends on the version of Windows. ()

65. MS Word has a list of pre-defined typing, spelling, capitalization and grammar errors that _____ can detect and correct.
- (a) Autoentry ()
 - (b) **Autocorrect** ()
 - (c) Autoadd ()
 - (d) Autospell ()
66. Shortcut for displaying Print Preview in MS Word is:
- (a) Ctrl + F1 ()
 - (b) **Ctrl + F2** ()
 - (c) Shift + F1 ()
 - (d) Shift + F2 ()
67. In MS Word, you can force a page break.
- (a) By positioning your cursor at the appropriate place and pressing the F1 key. ()
 - (b) **By positioning your cursor at the appropriate place and pressing Ctrl + Enter.** ()
 - (c) By using the insert/section break. ()
 - (d) By changing the font size of your document. ()
68. Which of the following software applications would be the most appropriate for performing numerical and statistical calculations?
- (a) Database ()
 - (b) Document processor ()
 - (c) Graphics package ()
 - (d) **Spreadsheet** ()
69. Anything that is typed in a worksheet appears:
- (a) In the formula bar ()
 - (b) In the active cell ()
 - (c) **In both (a) and (b)** ()
 - (d) None of the above ()
70. In Excel, a pre-recorded formula that provides a shortcut for complex calculations is called:
- (a) Value ()
 - (b) Data series ()
 - (c) **Function** ()
 - (d) Field ()
71. Scatter chart are also known as:
- (a) XX Chart ()
 - (b) YX Chart ()
 - (c) **XY Chart** ()
 - (d) YY Chart ()
72. In MS Excel Cell address \$A4 in a formula means it is a:
- (a) **Mixed cell reference** ()
 - (b) Absolute cell reference ()
 - (c) Relative cell reference ()
 - (d) All of the above ()

73. Which is a shortcut method to insert a new worksheet in MS-Excel?
- (a) Ctrl + W ()
 - (b) Ctrl + N ()
 - (c) Ctrl + I ()
 - (d) **Shift + F11** ()
74. In Excel, _____ allows you to bring together copies of workbooks that other users have worked on independently.
- (a) copying ()
 - (b) **merging** ()
 - (c) pasting ()
 - (d) compiling ()
75. Which of the following are used in MS-PowerPoint in order to see all the slides on one screen?
- (a) **View, Slide Sorter** ()
 - (b) View, Slide ()
 - (c) View, Master ()
 - (d) View, Slide Show ()
76. Which PowerPoint view displays each slide of the presentation as a thumbnail and is useful for rearranging slides?
- (a) **Slide Sorter** ()
 - (b) Slide Show ()
 - (c) Slide Master ()
 - (d) Notes Page ()
77. The maximum zoom percentage in MS-PowerPoint is:
- (a) 100% ()
 - (b) 200% ()
 - (c) **400%** ()
 - (d) 500% ()
78. Which command brings you to the first slide in your presentation?
- (a) Next Slide button ()
 - (b) Page Up ()
 - (c) **Ctrl + Home** ()
 - (d) Ctrl + End ()
79. Which menu is used to apply various visual effects to the slide in PowerPoint?
- (a) Animation ()
 - (b) Design ()
 - (c) Slide Show ()
 - (d) **Transition** ()
80. What is the shortcut key to insert a new slide in PowerPoint?
- (a) Ctrl + N ()
 - (b) **Ctrl + M** ()
 - (c) Shift + N ()
 - (d) Shift + M ()

81. LAN can use _____ architecture.
- (a) peer-to-peer ()
 - (b) client-to-server ()
 - (c) **Both (a) & (b)** ()
 - (d) Neither (a) nor (b) ()
82. In twisted pair, wires are twisted together which are surrounded by an insulating material and an outer layer called:
- (a) Frame ()
 - (b) Cover ()
 - (c) Disk ()
 - (d) **Jacket** ()
83. In which topology is every node connected to two other nodes?
- (a) Bus topology ()
 - (b) **Ring topology** ()
 - (c) Star topology ()
 - (d) Mesh topology ()
84. Which of the following is **NOT** a network device?
- (a) Router ()
 - (b) Switch ()
 - (c) **Bus** ()
 - (d) Bridge ()
85. DSL is an example of which connection?
- (a) Network ()
 - (b) Wireless ()
 - (c) Slow ()
 - (d) **Broadband** ()
86. A cookie
- (a) **Stores information about the user's web activity** ()
 - (b) Stores software developed by the user ()
 - (c) Stores the password of the user ()
 - (d) Stores the commands used by the user ()
87. In HTML, tags consist of keywords enclosed within:
- (a) {..} ()
 - (b) **<..>** ()
 - (c) [..] ()
 - (d) (..) ()
88. What is web cookie?
- (a) A piece of code that destroys malware ()
 - (b) **A small piece of data stored in a user's web browser by a website**()
 - (c) A programming language for interactive sites ()
 - (d) A hardware device that is used to connect to the Internet ()

89. Which of the following must be contained in a URL?

- (a) A protocol identifier ()
- (b) The letters, www ()
- (c) www and the unique registered domain name ()
- (d) A protocol identifier, www and the unique registered domain name ()**

90. A ____ appearing on a web page opens another document when clicked.

- (a) Web browser ()
- (b) Website ()**
- (c) PDA ()
- (d) Link ()

91. Connection or link to other documents or Web pages that contain related information is called:

- (a) Dial-up ()
- (b) Electronic commerce ()
- (c) Hyperlink ()**
- (d) E-cash ()

92. An online discussion group that allows direct 'live' communication is known as:

- (a) Web crawler ()
- (b) Chat group ()**
- (c) Regional service provider ()
- (d) Hyperlink ()

93. UPI was launched by:

- (a) RBI ()
- (b) AEPS ()
- (c) USSD ()
- (d) NPCI ()**

94. Process to verify the username and password is known as:

- (a) Logic ()
- (b) Check-in ()
- (c) Authentication ()**
- (d) Authorisation ()

95. Viruses, Trojan horses and worms are:

- (a) Able to harm computer system ()**
- (b) Unable to detect if affected on computer ()
- (c) User-friendly applications ()
- (d) Harmless applications resident on computer ()

96. What is E-commerce?

- (a) Buying and selling takes place over Internet ()**
- (b) Buying and selling takes place over phone call ()
- (c) Buying and selling takes place over Internet and phone call ()
- (d) Buying and selling takes place over either Internet and phone call ()

97. Internet requires:

- (a) An international agreement to connect computers ()
- (b) A local area network ()
- (c) **A commonly agreed set of rules to communicate between computers** ()
- (d) A world wide web ()

98. BHIM App is used to make simple, easy and quick payment transactions using:

- (a) Password ()
- (b) **UPI** ()
- (c) Phone number ()
- (d) Aadhaar number ()

99. Computer virus is a:

- (a) Hardware ()
- (b) Windows tool ()
- (c) **Computer program** ()
- (d) System software ()

100. What is IoT (Internet of Things)?

- (a) **Network of physical objects embedded with sensors** ()
- (b) Network of virtual objects ()
- (c) Network of objects in the ring structure ()
- (d) Network of sensors ()

* * * * *