

GOVERNMENT OF MIZORAM
POWER & ELECTRICITY DEPARTMENT

COMPETITIVE EXAMINATION FOR RECRUITMENT TO
THE POST OF ELECTRICIAN GRADE-II
(JUNE-2026)

PAPER-II
(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 : _____

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All questions carry 2 marks each.

Put a tick (✓) 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. The additive inverse of $\frac{(x-1)}{(x+2)}$ is:

(a) $\frac{-(x+2)}{(x-1)}$ ()

(b) $\frac{(x+1)}{(x-2)}$ ()

(c) $\frac{(x+2)}{(x-1)}$ ()

(d) $\frac{-(x-1)}{(x+2)}$ ()

2. The multiplicative (or reciprocal) of $\frac{(p+q)}{(x-y)}$ is:

(a) $\frac{(x-y)}{(p+q)}$ ()

(b) $\frac{(p-q)}{(x+y)}$ ()

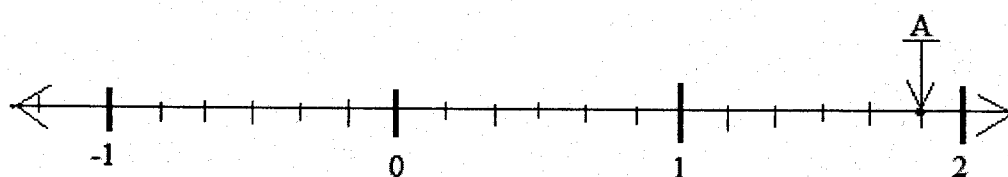
(c) $\frac{-(x-y)}{(p+q)}$ ()

(d) $\frac{-(p-q)}{(x+y)}$ ()

3. The value of $-\frac{2}{3} + \frac{5}{7}$ is:

- (a) $\frac{3}{10}$ ()
- (b) $\frac{-1}{21}$ ()
- (c) $\frac{1}{21}$ ()
- (d) $\frac{-3}{10}$ ()

4. Observe the given number line carefully:



The point A as shown in the number line represents

- (a) 11 ()
- (b) $1\frac{5}{6}$ ()
- (c) $\frac{11}{20}$ ()
- (d) $\frac{20}{11}$ ()

5. If you subtract $\frac{2}{3}$ from a number and multiply the result by $\frac{1}{3}$, you get $\frac{4}{9}$. The number is:

- (a) 2 ()
- (b) 3 ()
- (c) 4 ()
- (d) 6 ()

6. A student was asked to multiply a certain number by 25. He multiplied it by 52 and got his answer more than the correct one by 324. The number to be multiplied was:

- (a) 10 ()
- (b) 11 ()
- (c) 12 ()
- (d) 13 ()

7. The value of $\sqrt{54756}$ is:

- (a) 326 ()
- (b) 236 ()
- (c) 324 ()
- (d) 234 ()

8. 1089 students are sitting in an auditorium in such a manner that there are as many students in a row as there are rows in the auditorium. How many rows are there in the auditorium?
- (a) 33 ()
(b) 37 ()
(c) 43 ()
(d) 47 ()
9. An Army Officer arranged his 1000 soldiers in rows to form a perfect square. In doing so, he found that some soldiers were left out. How many soldiers were left out?
- (a) 38 ()
(b) 39 ()
(c) 40 ()
(d) 41 ()
10. The smallest number by which 192 must be divided to obtain a perfect cube, is:
- (a) 2 ()
(b) 3 ()
(c) 4 ()
(d) 5 ()
11. A boy makes a solid cuboid of sides 5 cm, 4 cm and 2 cm. How many such cuboids will be needed to form a solid cube?
- (a) 20 ()
(b) 22 ()
(c) 24 ()
(d) 25 ()
12. The ages of 10 boys (in years) are 15, 13, 16, 11, 12, 14, 9, 10, 8 and 14. Their average age is:
- (a) 12.2 years ()
(b) 12.3 years ()
(c) 12.4 years ()
(d) 12.5 years ()
13. The weights of five children A, B, C, D and E are 8kg, 10kg, 6kg, x kg and 9 kg respectively. If their average weight is 8 kg, then the weight of D is:
- (a) 6 kg ()
(b) 6.5 kg ()
(c) 7 kg ()
(d) 7.2 kg ()
14. The average weight of 8 crew member in an aeroplane is increased by 1 kg when one of the crews weighing 62 kg is replaced by a new crew member. The weight of the new crew is:
- (a) 63 kg ()
(b) 68 kg ()
(c) 70 kg ()
(d) 72 kg ()

15. The average score of a cricketer for 10 matches is 38 runs. If the average score of the first 6 matches is 42 runs, then the average score of the last 4 matches is:
- (a) 30 runs ()
(b) **32 runs** ()
(c) 35 runs ()
(d) 36 runs ()
16. A jacket, marked at Rs.4,000 is allowed a discount of 6 %. The cash discount is:
- (a) Rs.200 ()
(b) Rs.220 ()
(c) Rs.230 ()
(d) **Rs.240** ()
17. A pair of shoes, costing Rs.2,500 is sold for Rs.2,250. The rate of discount is:
- (a) 8 % ()
(b) 9 % ()
(c) **10 %** ()
(d) 11 % ()
18. Due to Christmas sale, an article is sold for Rs.3,400 after allowing a discount of 15 %. The marked price of the article is:
- (a) **Rs.4,000** ()
(b) Rs.3,800 ()
(c) Rs.3,600 ()
(d) Rs.3,500 ()
19. A mobile phone charger, costing Rs.500 is sold for Rs.450. The profit or loss percent is:
- (a) 11.11 % profit ()
(b) 11.11 % loss ()
(c) 10 % profit ()
(d) **10 % loss** ()
20. A book, costing Rs.750 was sold at a loss of 4 %. What was its selling price?
- (a) **Rs.720** ()
(b) Rs.730 ()
(c) Rs.735 ()
(d) Rs.740 ()
21. An article, costing Rs.1,000 was sold at a profit of 10 %. What was its selling price?
- (a) Rs.1,050 ()
(b) **Rs.1,100** ()
(c) Rs.1,150 ()
(d) Rs.1,200 ()
22. The population of a town increased from 50,000 to 52,000. The rate of increase in population is:
- (a) 1 % ()
(b) 2 % ()
(c) 3 % ()
(d) **4 %** ()

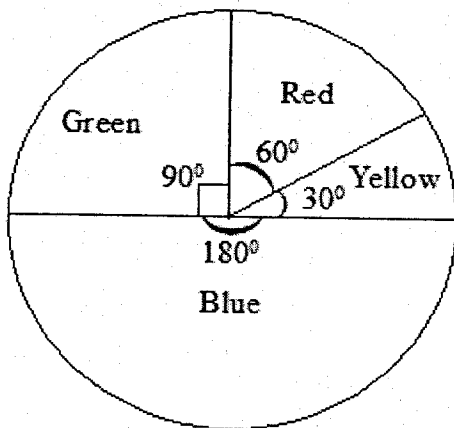
23. Lala's monthly income is Rs. 23,000. He deposits 12.5 % of his income in a bank. How much does he deposit?
- (a) Rs.2,975 ()
- (b) **Rs.2,875** ()
- (c) Rs.2,775 ()
- (d) Rs.2,725 ()
24. If 15 % of x is 60, then the value of x is:
- (a) 9 ()
- (b) 25 ()
- (c) **400** ()
- (d) 900 ()
25. What percent of 3 metres is 75 cm?
- (a) 10 % ()
- (b) 15 % ()
- (c) 20 % ()
- (d) **25 %** ()
26. A student has to secure 33 % marks to pass. If he gets 25 marks and fails by 8 marks, what are the full marks?
- (a) 70 ()
- (b) 80 ()
- (c) 90 ()
- (d) **100** ()
27. What percent is 3 out of 8?
- (a) 37.4 % ()
- (b) **37.5 %** ()
- (c) 37.6 % ()
- (d) 37.7 % ()
28. Rama gets 49 % marks in an examination obtaining 245 marks. The percentage of marks obtained by his friend in the same examination who scores 375 marks, is:
- (a) 70 % ()
- (b) 72 % ()
- (c) **75 %** ()
- (d) 80 % ()
29. A shopkeeper bought 12 plastic chairs for Rs.1,800 and sold them at a gain equal to the selling price of 2 chairs. The gain percent in the transaction, is:
- (a) 10 % ()
- (b) 15 % ()
- (c) **20 %** ()
- (d) 25 % ()

30. A taxi driver has a road map with a scale of 1 cm representing 18 km. He drives on a road for 72 km. His distance covered in the map is:
- (a) 4 cm ☐
- (b) 5 cm ☐
- (c) 6 cm ☐
- (d) 7 cm ☐
31. If $p : q = 3 : 4$ and $q : r = 8 : 9$, the $p : q : r$ is equal to:
- (a) 6 : 8 : 9 ☐
- (b) 9 : 8 : 6 ☐
- (c) 3 : 32 : 9 ☐
- (d) 8 : 6 : 9 ☐
32. A farmer has enough food to feed 24 cows in his cattle for 10 days. How long would the food last if there were 6 more cows in his cattle?
- (a) 9 days ☐
- (b) 8 days ☐
- (c) 7 days ☐
- (d) 6 days ☐
33. If 6 men, working 8 hours a day, earn Rs.5,760, the 9 men, working 6 hours a day, will earn:
- (a) Rs.5,120 ☐
- (b) Rs.6,480 ☐
- (c) Rs.5,210 ☐
- (d) Rs.6,840 ☐
34. A and B enter into a partnership business, investing Rs.12,000 and Rs.16,000 respectively. After 8 months, C also joins the business with a capital of Rs.15,000. After 1 year, the share of C in a profit of Rs.33,000 will be:
- (a) Rs.16,000 ☐
- (b) Rs.12,000 ☐
- (c) Rs.5,000 ☐
- (d) Rs.4,000 ☐
35. A speed of 15 m/sec is equal to:
- (a) 48 km/hr ☐
- (b) 50 km/hr ☐
- (c) 52 km/hr ☐
- (d) 54 km/hr ☐
36. If a boy can cover a distance of 6.5 km in 26 minutes, then his average speed is:
- (a) 2.5 km/hr ☐
- (b) 4 km/hr ☐
- (c) 15 km/hr ☐
- (d) 16.9 km/hr ☐

37. 'A' and 'B' can do a piece of work in 4 days which 'B' alone can finish it in 6 days. The time taken by 'A' alone to do the work is:
- (a) 12 days ☐
- (b) 13 days ☐
- (c) 14 days ☐
- (d) 15 days ☐
38. Aria borrows Rs.12,000 at 10 % p.a. for 2.1 years at simple interest and Rita borrows the same sum at the same rate of interest for 2 years, compounded annually. Who pays more interest?
- (a) Aria pays more interest. ☐
- (b) Both pay equal interest. ☐
- (c) Rita pays more interest. ☐
- (d) Data inadequate to find who pays more. ☐
39. There are 10 red balls and some blue balls in a box. If the probability of drawing a blue ball at random from the box is double that of a red ball, the number of blue balls in the box is:
- (a) 5 ☐
- (b) 10 ☐
- (c) 15 ☐
- (d) 20 ☐
40. The probability of getting bad eggs at random in a lot of 200 eggs is 0.02. The number of bad eggs is:
- (a) 2 ☐
- (b) 3 ☐
- (c) 4 ☐
- (d) 5 ☐
41. A vertical tower stands on a plane ground and casts a shadow of length 10 m on a sunny day. If the sun's elevation is 45° , then the height of the pole is:
- (a) $\frac{10\sqrt{3}}{3}$ m ☐
- (b) 10 m ☐
- (c) $10\sqrt{3}$ ☐
- (d) cannot be defined ☐
42. If the volume of a solid cube is 64 cubic cm, then the length of each side of the cube is:
- (a) 10 cm ☐
- (b) 8 cm ☐
- (c) 6 cm ☐
- (d) 4 cm ☐
43. A room is 6m long, 4m broad and 3m high. What is the area of the inner four walls of the room?
- (a) 30 Sq.m ☐
- (b) 60 Sq.m ☐
- (c) 72 Sq.m ☐
- (d) 108 Sq.m ☐

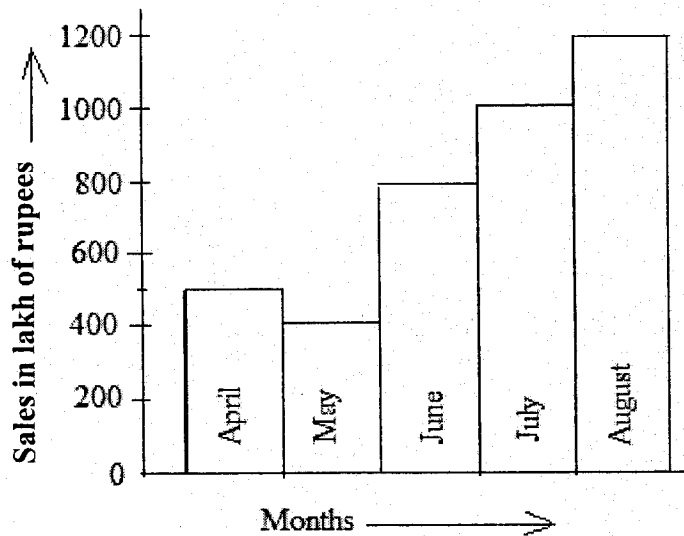
44. What must be the height of a cuboidal room whose floor area is 96 Sq.m and volume is 384 Sq.m?
- (a) 2 m ()
(b) 3 m ()
(c) 4 m ()
(d) 5 m ()
45. How many solid cubes of edge 5 cm each can be obtained from a cuboid whose length, breadth and height are 20 cm, 15 cm and 10 cm?
- (a) 24 ()
(b) 25 ()
(c) 26 ()
(d) 27 ()
46. A water tank is in the form of a cylinder whose diameter is 4 m and height is 3.5 m. What is the maximum quantity of water (in litres) that can be stored in the tank ?
- (a) 44,000 litres ()
(b) 56,000 litres ()
(c) 17,600 litres ()
(d) 14,000 litres ()

Direction (Question Nos. 47 & 48) : The given pie-chart shows the colour preferred by a group of 36 students. Study the pie-chart carefully and answer the following:



47. How many people are there preferring red colour?
- (a) 3 ()
(b) 4 ()
(c) 5 ()
(d) 6 ()
48. Which colour is preferred by 9 people?
- (a) Green ()
(b) Blue ()
(c) Red ()
(d) Yellow ()

Direction (Question Nos. 49 & 50) : Study the given graph carefully and answer the questions that follow:



49. In which of the following durations, there is a steady rise in sales?
- (a) April - June ☐
 - (b) May - July ☐
 - (c) **June - August** ☐
 - (d) Data insufficient to predict ☐
50. During which of the following months, proportion of the sales to that of the previous month is the largest?
- (a) May ☐
 - (b) **June** ☐
 - (c) July ☐
 - (d) August ☐

BASIC COMPUTER KNOWLEDGE - 100 MARKS

51. Which of the following is not a web search engine?
- (a) Yahoo ☐
 - (b) Bing ☐
 - (c) Yandex ☐
 - (d) **eBay** ☐
52. Which of the following is an example of volatile memory?
- (a) **Random Access Memory** ☐
 - (b) Read Only Memory ☐
 - (c) HDD ☐
 - (d) USB Drive ☐

53. Which technology is used in cryptocurrencies like Bitcoin?
- (a) AI ()
 - (b) Cloud ()
 - (c) **Blockchain** ()
 - (d) Javascript ()
54. What is an example of cloud storage?
- (a) Hard disk ()
 - (b) **Google Drive** ()
 - (c) Internal memory of smartphone ()
 - (d) Google Chrome ()
55. What is the full form of ML in the context of technology and artificial intelligence?
- (a) **Machine Learning** ()
 - (b) Memory Link ()
 - (c) Mobile Legends ()
 - (d) Mapping Loop ()
56. Which company develop ChatGPT?
- (a) Google Deepmind ()
 - (b) Microsoft Azure ()
 - (c) DataRobot ()
 - (d) **OpenAI** ()
57. Which shortcut is used to quickly access the Task Manager?
- (a) **Ctrl + Alt + Delete** ()
 - (b) Ctrl + Alt + Tab ()
 - (c) Ctrl + F4 ()
 - (d) Ctrl + T ()
58. What is the fullform of JPEG?
- (a) **Joint Photographic Expert Group** ()
 - (b) Joint Photographic Extension Graphic ()
 - (c) Journal Photographic Extension Group ()
 - (d) Journal Picture Establishment Group ()
59. What is the fullform of PDF?
- (a) **Portable Document Format** ()
 - (b) Partial Document File ()
 - (c) Preferred Document Format ()
 - (d) Partial Document Format ()
60. Which of the following is not an output Device?
- (a) **Digital camera** ()
 - (b) Airpods ()
 - (c) CRT Monitor ()
 - (d) Plotter ()

61. Which of the following is the largest?
(a) **ZB** ()
(b) PB ()
(c) TB ()
(d) BB ()
62. A group of bits is called:
(a) **Byte** ()
(b) Memory unit ()
(c) Nibble ()
(d) Word ()
63. Which is not an example of a hardware?
(a) **Operating System** ()
(b) Motherboard ()
(c) Graphic Card ()
(d) Cooling fan ()
64. What is the full form of 'SD' in SD Card?
(a) **Secure Digital** ()
(b) Solid Device ()
(c) Secure Device ()
(d) Solid Digital ()
65. What is the main function of a Router?
(a) **To direct network traffic between devices** ()
(b) It provides power supply to network systems during outages. ()
(c) It manages mobile data network in smartphones ()
(d) It helps in increasing the internet speed of wifi connection. ()
66. What is the default file extension for a Word document?
(a) .pdf ()
(b) **.docx** ()
(c) .xls ()
(d) .txt ()
67. Which of the following is NOT a text alignment option in MS Word?
(a) Center ()
(b) Right ()
(c) Left ()
(d) **Bottom** ()
68. How can you change the spacing between lines of text in Microsoft Word?
(a) Insert Tab ()
(b) Review Tab ()
(c) **Home Tab -> Line Spacing** ()
(d) Layout Tab -> Paragraph Spacing ()

69. What does the "Clipboard" feature in Word do?
- (a) Aligns text to the center of a page ()
 - (b) **Stores text and graphics temporarily for copying and pasting** ()
 - (c) Saves a document automatically ()
 - (d) Adds shapes and Smart Art to a document ()
70. What is the default font in MS Word 2010 and later versions?
- (a) **Calibri** ()
 - (b) Verdana ()
 - (c) Arial ()
 - (d) Times New Roman ()
71. What is the purpose of the ruler in MS Word?
- (a) To measure the length of text ()
 - (b) To manage page orientation ()
 - (c) To adjust font size ()
 - (d) **To align text, graphics, and other elements** ()
72. What is the shortcut to toggle between uppercase and lowercase for selected text?
- (a) Ctrl + Shift + U ()
 - (b) **Shift + F3** ()
 - (c) Ctrl + Shift + L ()
 - (d) Alt + Shift + U ()
73. Which language is directly understood by the computer?
- (a) C++ ()
 - (b) Assembly ()
 - (c) **Machine Language** ()
 - (d) Java ()
74. What does URL stands for?
- (a) **Uniform Resource Locator** ()
 - (b) Universal Retrieval List ()
 - (c) Unique Record Locator ()
 - (d) Uniform Resource Link ()
75. Which of these is used to measure speed of processor?
- (a) **Gigahertz** ()
 - (b) Gigabyte ()
 - (c) Mbps ()
 - (d) Pps ()
76. Which function key is used to refresh a web page?
- (a) F1 ()
 - (b) F2 ()
 - (c) **F5** ()
 - (d) F8 ()

77. Which of these is not a mobile operating system?
- (a) iOS ()
 - (b) Android ()
 - (c) **Nokia** ()
 - (d) Windows Phone ()
78. The process of starting a computer is called:
- (a) **Booting** ()
 - (b) Setup ()
 - (c) Reset ()
 - (d) Execution ()
79. What is the smallest unit of data in a computer?
- (a) Byte ()
 - (b) **Bit** ()
 - (c) Nibble ()
 - (d) Kilobyte ()
80. Which of the following is a popular spreadsheet application?
- (a) Microsoft Word ()
 - (b) **Microsoft Excel** ()
 - (c) Microsoft Access ()
 - (d) Microsoft PowerPoint ()
81. What does SSD stand for?
- (a) **Solid State Drive** ()
 - (b) Standard Storage Disk ()
 - (c) Static State Disk ()
 - (d) Solid Storage Drive ()
82. What is the function of a graphics card?
- (a) To manage memory ()
 - (b) **To improve visual output and graphics performance** ()
 - (c) To store data ()
 - (d) To process audio ()
83. What is the main purpose of cache memory?
- (a) To increase storage capacity ()
 - (b) **To speed up data access from the main memory** ()
 - (c) To backup data ()
 - (d) To display graphics ()
84. Which of the following storage devices uses magnetic disks to store data?
- (a) Solid State Drive (SSD) ()
 - (b) **Hard Disk Drive (HDD)** ()
 - (c) USB Flash Drive ()
 - (d) CD-ROM ()

85. Which key combination is used to force quit an application in Windows?
- (a) Ctrl + Alt + Delete ()
 - (b) Ctrl + Shift + Esc ()
 - (c) Ctrl + F4 ()
 - (d) **Alt + F4** ()
86. What is the default file extension for an Excel workbook?
- (a) **.xlsx** ()
 - (b) .xlx ()
 - (c) .txt ()
 - (d) .csv ()
87. How do you start a formula in Excel?
- (a) By typing @ ()
 - (b) By typing # ()
 - (c) By typing + ()
 - (d) **By typing =** ()
88. What is an Excel Worksheet?
- (a) A collection of multiple spreadsheets ()
 - (b) **A single sheet within an Excel workbook** ()
 - (c) A chart tool in Excel ()
 - (d) A type of formula for calculations ()
89. How are cells named in MS Excel?
- (a) By using a formula ()
 - (b) By column letter only ()
 - (c) **By combining column letter and row number** ()
 - (d) By row number only ()
90. How do you apply a formula to all cells in a column?
- (a) Use Ctrl + F ()
 - (b) Use Ctrl + Shift + A ()
 - (c) Right-click and select Apply Formula ()
 - (d) **Drag the fill handle down** ()
91. How can you download MS Excel for free?
- (a) **By using the trial version from the Microsoft website** ()
 - (b) By downloading from unofficial websites ()
 - (c) By purchasing it from a third-party retailer ()
 - (d) By using a pirated version ()
92. What does the NOW() function return?
- (a) A specific timestamp ()
 - (b) The current date only ()
 - (c) **The current date and time** ()
 - (d) The current time only ()

93. Which of the following is the first web browser?
- (a) Nexus ()
 - (b) Firefox ()
 - (c) Internet Explorer ()
 - (d) Google Chrome ()
94. A web cookie is a small piece of data that is _____.
- (a) sent from a website and stored in user's web browser while a user is browsing a website ()
 - (b) sent from user and stored in the server while a user is browsing a website ()
 - (c) sent from root server to all servers ()
 - (d) sent from the root server to other root servers ()
95. Bitmap is a collection of _____ that describes an image.
- (a) pixels ()
 - (b) algorithms ()
 - (c) bits ()
 - (d) colors ()
96. What is an APK in Android?
- (a) Application Package ()
 - (b) App Processing Kit ()
 - (c) App Programming Kit ()
 - (d) Android Package ()
97. What is the purpose of Hashtags in social media?
- (a) To mark keywords or topics about the post for easy search-ability. ()
 - (b) To calculate the aura of the post. ()
 - (c) To add detailed caption about a post. ()
 - (d) To make a post more secure from visibility to public. ()
98. Which of the following Social Media platforms is best suited for professional networking and job-hunting internationally?
- (a) Instagram ()
 - (b) WhatsApp ()
 - (c) LinkedIn ()
 - (d) X ()
99. In Gmail, the maximum attachment file size for personal accounts is:
- (a) 25 MB ()
 - (b) 15 MB ()
 - (c) 5 MB ()
 - (d) Unlimited ()
100. The actual resolution of a 4K HD video is:
- (a) 3840×2160 pixels ()
 - (b) 7680×4320 pixels ()
 - (c) 4000×2400 pixels ()
 - (d) 3920×1860 pixels ()