

MIZORAM SUBORDINATE SERVICES SELECTION BOARD



COMBINED COMPETITIVE EXAMINATION FOR RECRUITMENT TO THE POST OF JE(CIVIL)/OVERSEER JANUARY - 2023

Question Booklet Series

B

PAPER II

Time Allowed : 3 Hours

Maximum Marks : 200

INSTRUCTIONS

1. This paper consists of one hundred (100) multiple-choice type of questions.
2. Immediately after the commencement of the examination, you should check that this question booklet does not have any unprinted or missing pages or items, etc. If so, get it replaced by a complete booklet from the invigilator.
3. Please note that it is the candidate's responsibility to fill in all necessary details such as Roll Number, etc. and the Question Booklet Series A, B, C or D carefully and without any omission or discrepancy at the appropriate places in the OMR Answer Sheet. Any omission/discrepancy will render the Answer Sheet liable for rejection.
4. Each question comprises four responses (answers). You will select the response which you want to mark on the Answer Sheet. In case you feel that there is more than one correct response, mark the response which you consider the best. In any case, choose *ONLY ONE* response for each item.
5. You have to mark your responses *ONLY* on the separate OMR Answer Sheet provided. ***Read instructions given in the OMR sheet carefully.***
6. All questions carry equal marks.
7. Rough work is to be done in the spaces available in the question booklet. ***Use of calculator is not permitted.***
8. You have to submit your Answer Sheet to the invigilators at the end of the examination compulsorily and must not carry it with you outside the Examination Hall. You are permitted to take away with you the question booklet on conclusion of examination.
9. There are no negative marks for incorrect answer.

1. A gutter margin is
 - (A) a margin that is added to the left margin when printing
 - (B) a margin that is added to the binding side of page when printing
 - (C) a margin that is added to the right margin when printing
 - (D) a margin that is added to the outside of the page when printing

2. Which of the following is false about email addresses?
 - (A) They may not have more than one @ character
 - (B) They may contain special characters other than alpha-numeric
 - (C) They may contain spaces
 - (D) They may contain local part and domain part

3. POP3 in email stands for
 - (A) Point Over Point
 - (B) Post Operating Protocol
 - (C) Post Order Protocol
 - (D) Post Office Protocol

4. HDMI stands for
 - (A) Heavy Duty Multimedia Interface
 - (B) Heavy Duty Monitor Interface
 - (C) High Definition Multimedia Interface
 - (D) High Definition Monitor Interface

5. A unique identification number with which every computer is connected on the Internet is
 - (A) URL
 - (B) IP address
 - (C) MAC address
 - (D) Domain name address

6. An E-mail address typically consists of a User ID followed by the _____ sign and the domain name.
 - (A) #
 - (B) &
 - (C) \$
 - (D) @

7. A PowerPoint presentation consists of a collection of
 - (A) handouts
 - (B) pictures
 - (C) slides
 - (D) information

8. Which of the following is not a web browser?
 - (A) Safari
 - (B) Edge
 - (C) Opera
 - (D) Google

9. The PowerPoint view that shows only text in the slide, without any charts or images is
 - (A) Outline View
 - (B) Slide Sorter View
 - (C) Notes Page View
 - (D) Reading View

10. Wire(s) used in computer networking is/are
 - (A) Coaxial cable
 - (B) Ethernet cable
 - (C) Optical fibre cable
 - (D) All of these

11. The Central Processing Unit (CPU) in a computer consists of
 - (A) input, output and processing
 - (B) control unit, primary storage and secondary storage
 - (C) control unit, arithmetic logic unit and registers
 - (D) motherboard, RAM and hard disk

12. A hardware or software system which is designed to filter access to a certain network or device is called
 - (A) Firewall
 - (B) Blocker
 - (C) Firmware
 - (D) Anti-virus

13. A computer program which is capable of replicating and spreading itself from one computer to another is called
 - (A) Bug
 - (B) Computer virus
 - (C) Driver
 - (D) Cipher

14. The Android operating system used in mobile devices is built on
 - (A) Symbian platform
 - (B) Java platform
 - (C) Python platform
 - (D) Linux platform

15. A set of rules that governs the communications between computers on a network is called
 - (A) protocols
 - (B) laws
 - (C) guidelines
 - (D) regulations

16. 1 TB is of data is equivalent to
 - (A) 1024 x 1024 x 1024 x 1024 bytes
 - (B) 1024 x 1024 x 1024 Megabytes
 - (C) 1024 x 1024 Gigabytes
 - (D) 1024 Megabytes

17. The comparison operator for 'not equal to' in Microsoft Excel formula is
 - (A) !=
 - (B) <>
 - (C) >=
 - (D) =/

18. Database Management System stores its data in a storage unit specifically called
 - (A) Table
 - (B) Spreadsheet
 - (C) File
 - (D) Bin

19. Optical fiber uses
 - (A) light signals
 - (B) electromagnetic radiation
 - (C) electric current
 - (D) both light and electric current

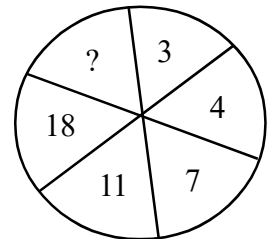
20. The full form of PHP is
 - (A) Phone Handset Protocol
 - (B) Hypertext Preprocessor
 - (C) Poly-Hemisphere Protocol
 - (D) Prime House Portal

21. Internal memory in a processor consists of
 - (A) set of registers
 - (B) a set of ALUs
 - (C) microprocessor
 - (D) data bus

22. The most popular type of switching in the internet is
(A) circuit switching (B) common switching
(C) packet switching (D) network switching
23. The advantage of using a spreadsheet is
(A) calculations can be done automatically
(B) changing data automatically updates calculations
(C) it offers more flexibility
(D) all of the above
24. IPv4 addresses are _____ numbers.
(A) 16 bit (B) 128 bit
(C) 4 bit (D) 32 bit
25. Cell address \$C\$3 in a formula means it is a/an
(A) mixed cell reference (B) absolute cell reference
(C) relative cell reference (D) none of these
26. An example of an Operating System without a graphical user interface (GUI) is
(A) Android (B) MS-DOS
(C) Mac OS X (D) Apple iOS
27. Which of the following is not a basic function of an Operating System?
(A) Process Management (B) Memory Management
(C) File Management (D) Database Management
28. A feature in Microsoft Word which lets you create a batch of documents that are personalized for each recipient using a data source is
(A) Cross-reference (B) Mail Merge
(C) Combine (D) Macro
29. To align a paragraph to the right, the keyboard shortcut in Microsoft Word is
(A) Ctrl + R (B) Shift + R
(C) Alt + R (D) Ctrl + Shift + R
30. A cookie
(A) stores software developed by the user
(B) stores passwords of users on the internet
(C) stores information about the user's web activity
(D) all of the above
31. An operating system is an example of
(A) System Software (B) Application Software
(C) System Utilities (D) Compiler
32. Which of the following is not an input device?
(A) Projector (B) Touchpad
(C) Webcam (D) Barcode reader

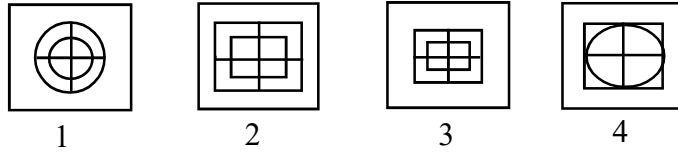
33. A high speed memory placed between RAM and CPU to increase processing speed is
(A) ROM (B) Dynamic RAM
(C) Cache memory (D) SSD
34. A Graphical User Interface (GUI) is typically navigated using
(A) Command line (B) Monitor
(C) Plotter (D) Mouse
35. In computer terminology, information usually intends
(A) Software (B) Program
(C) Data (D) Numbers
36. To keep an area of a Microsoft Excel worksheet visible while you scroll to another area of the worksheet, you can use a feature called
(A) Filter (B) Protect Sheet
(C) Repeat Rows & Columns (D) Freeze Panes
37. In Microsoft Excel, the option to narrow down the data in your worksheet and hide parts of it from view based on the criteria you set can be done using
(A) Sorting (B) Filters
(C) Grouping (D) Selectors
38. Which of the following is the full form of WAN?
(A) Wider Area Network (B) Wide Area Network
(C) Wide Access Network (D) Wide Area interNet
39. The system which translates human readable domain names into routable IP addresses which is used by browsers for loading internet pages is
(A) ADNS (B) ADSL
(C) DSL (D) DNS
40. The full form of URL is
(A) Uniform Resource Locator (B) Universal Resource Location
(C) Uniform Router Locator (D) Universal Registry Location
41. Modulation is the process of
(A) converting analog to digital signals
(B) sending a file from one computer to another computer
(C) encoding digital signal to carrier analog signal
(D) performing data description
42. Bluetooth is a wireless technology which uses
(A) frequency hopping spread spectrum
(B) orthogonal frequency division multiplexing
(C) time division multiplexing
(D) none of the above

43. Which of the following is a valid IP address?
(A) 192.168.328.10 (B) 82.114.176
(C) 191.16.66.115 (D) 10.25.256.25
44. Encoding using clear text to represent formatting and inclusion of images in a document can be done using
(A) HTML (B) Microsoft word
(C) FTP (D) HTTP
45. A web portal which aggregates the web search results for a keyword or a phrase of many different search engines using a proprietary algorithm is called
(A) Megasearch engine (B) Metasearch engine
(C) Miniseach engine (D) Microsearch engine
46. Which of the following features is not a major advantage of using Excel?
(A) Functions such as filtering, sorting, etc.
(B) Automatic calculation of numbers and formulas
(C) Chart/graph generation capabilities
(D) Desktop publishing capabilities
47. Which of the following is used for selection of one line from multiple lines?
(A) Modem (B) Multiplexer
(C) Network connector (D) DNS
48. The speed of internet connection is measured in terms of
(A) bytes (B) hertz
(C) bits per second (D) bits per hertz
49. 8-bit binary can be used for representing as many as _____ symbols.
(A) 128 (B) 256
(C) 512 (D) 1024
50. Which of the following is having lowest cost-per-bit storage?
(A) Cache memory (B) Solid State Drive
(C) RAM (D) Hard disk
51. The missing number(s) in the given circle can be
(i) 29 (ii) 51
(iii) 21 (iv) 25
Which of the above alternative(s) is/are correct?
(A) (i) only (B) (iii) only
(C) (i) and (ii) (D) (iii) and (iv)



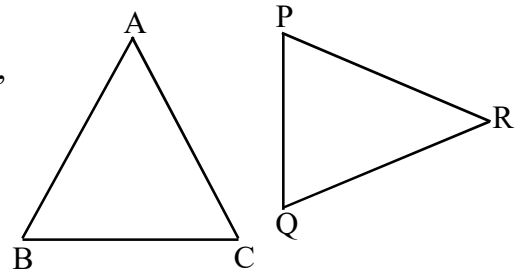
53. In a classroom, 5 students A, B, C, D and E are sitting on a bench. A is to the left of C and to the right of B. D is sitting to the right of E, but to the left of B. Who is sitting in the middle?
- (A) A (B) B
(C) C (D) E

54. Select the odd figure from the given alternatives:



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

55. In the given figures, ABC and PQR are two triangles. If $\angle B = \angle P$, $\angle Q = \angle C$ and $BC = PQ$, then the two triangles are
- (i) similar
(ii) congruent
(iii) similar but not congruent
(iv) neither similar nor congruent

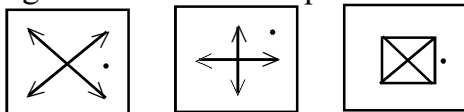


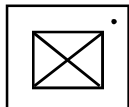
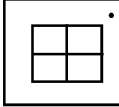
- Which of the above statement(s) is/are correct?
- (A) (i) only (B) (iv) only
(C) (i) and (iii) (D) (i) and (ii)

56. If Liana is 15th from both ends of a row of boys, how many boys are there in the row?
- (A) 15 (B) 16
(C) 28 (D) 29

57. Player is related to team, in the same way as ship is related to
- (A) water (B) sea
(C) fleet (D) sailor

58. Choose the correct figure from the given alternatives which will continue the problem figures in the same sequence:



- (A)  (B) 
- (C)  (D) 

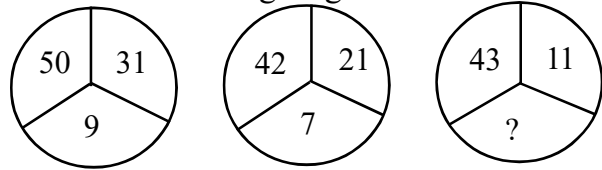
59. Medicine is sickness as knowledge is to
- (A) book (B) author
(C) ignorance (D) teacher

60. Pointing to a lady, Abraham said, "She is the daughter of the only sister of my father". How is the lady related to Abraham?
(A) Mother (B) Niece
(C) Sister (D) Cousin

61. The missing letter in the given figure is
(A) J
(B) I
(C) H
(D) D

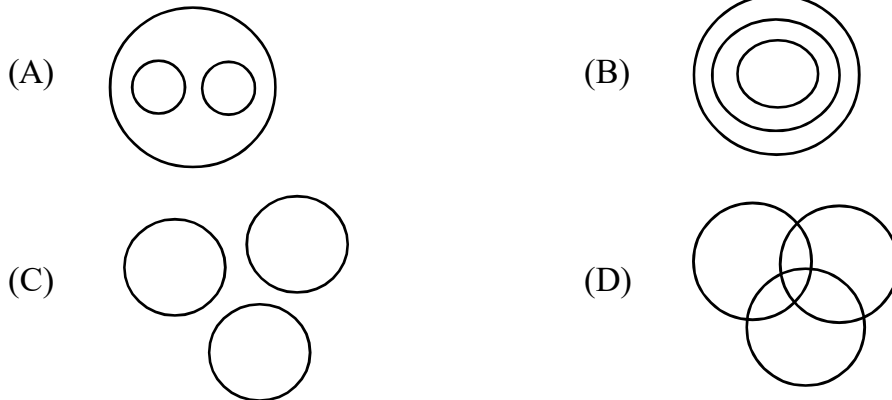


62. Which number comes in the place of '?' in the following diagrams?
(A) 5
(B) 6
(C) 7
(D) 8



63. Choose one word from the given alternatives which can be formed from the letters of the word ENVIRONMENT.
(A) ENTERTAIN (B) MOVEMENT
(C) EMINENT (D) ENTRANCE

64. Identify the diagram that best represents the relationship among HOCKEY, FOOTBALL and GAMES.



65. There are pigs and ducks in a farm-house. The number of legs are 32 more than twice the number of heads. The number of pigs in the farm-house is
(A) 13 (B) 14
(C) 15 (D) 16

66. Select the odd one from the given alternatives:
(A) Bike (B) Car
(C) Cycle (D) Bus

67. In the statement ADG : BEH :: MPS : ?, which of the given alternative best replaces the symbol '?' ?
(A) MZU (B) NQT
(C) NOQ (D) MOQ

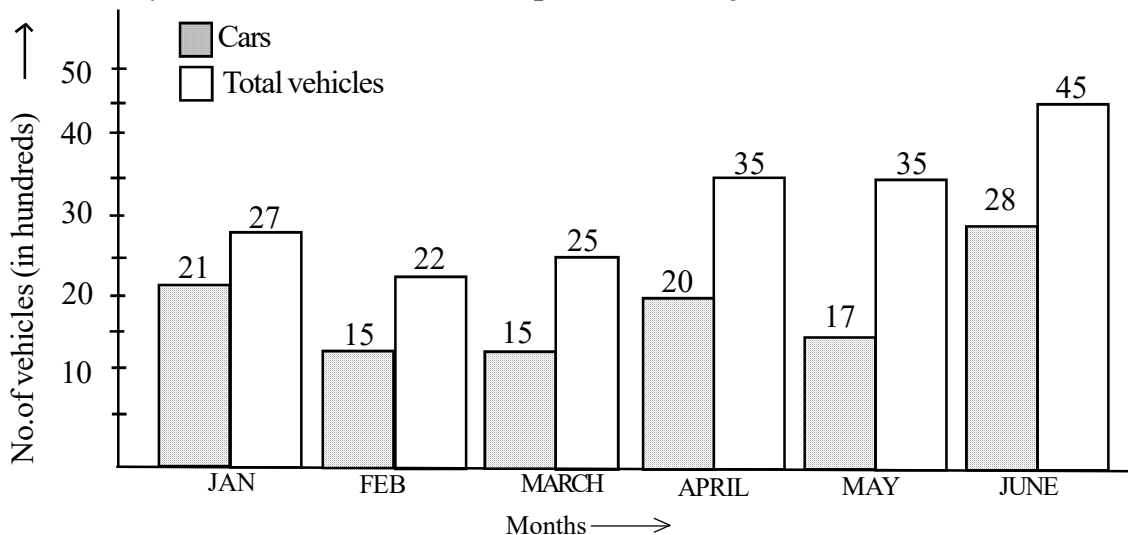
68. Anil borrowed Rs. 100 from Gopal. Kiran took Rs. 300 from Anil and Rs. 50 from Gopal. Gopal lost Rs. 400 due to theft and was left with no money. How much money did Gopal have in the beginning?
(A) Rs. 600 (B) Rs. 550
(C) Rs. 500 (D) Rs. 350
69. LOGIC and BHFNK are related in the same way as CLERK and
(A) JQDKB (B) QBKJA
(C) LPRTU (D) XVRPA
70. The 10th term from the end of the AP : 7, 10, 13, ..., 184 is
(A) 157 (B) 156
(C) 35 (D) 34
71. If 8 men can reap 80 hectares in 24 days, how many hectares can 36 men reap in 30 days?
(A) 360 (B) 450
(C) 475 (D) 500
72. A and B are 30km apart. They walk towards each other on the same route. If A walks at the speed of 4km/hr and B at 6km/hr, they will meet after
(A) 15 hours (B) 6 hours
(C) 4 hours (D) 3 hours
73. A and B together can do a piece of work in 4 days, B and C in 5 days, and C and A in 6 days. If they work together for 3 days, what is the fraction of the work left?
(A) $\frac{37}{40}$ (B) $\frac{37}{120}$
(C) $\frac{37}{60}$ (D) $\frac{3}{40}$
74. P can do a piece of work in 12 days, Q can do the same work in 15 days and R in 20 days. If they work together for 2 days, how many days will R alone take to finish the remaining work?
(A) 4 days (B) $7\frac{1}{5}$ days
(C) 12 days (D) 9 days
75. A and B enter into a partnership business. A contributes Rs. 16,000 and B Rs. 12,000. At the end of 6 months C joins them with a capital of Rs. 20,000. In what ratio should they divide the annual profit?
(A) 5 : 3 : 4 (B) 5 : 6 : 8
(C) 4 : 3 : 5 (D) 8 : 6 : 5
76. A shirt was sold at a profit of 15%. Had it been sold for Rs. 600, the profit would have been 20%. The former selling price of the shirt was
(A) Rs. 575 (B) Rs. 550
(C) Rs. 540 (D) Rs. 500

77. The price of a pen had gone up from Rs. 20 to Rs. 25 in 2019. The price had gone down from Rs. 25 to Rs. 20 in 2020. Then the price of the pen had
- (i) increased by 25% in 2019.
 - (ii) decreased by 25% in 2020.
 - (iii) increased by 20% in 2019.
 - (iv) decreased by 20% in 2020.
- Which of the above statements are correct?
- (A) (i) and (ii) only
 - (B) (i) and (iv) only
 - (C) (iii) and (iv) only
 - (D) (ii) and (iii) only
78. An article costing Rs. 500 was sold at a profit of 20%. The second purchaser sold it once again at a loss of 20%. At what price did he sell it?
- (A) Rs. 480
 - (B) Rs. 500
 - (C) Rs. 520
 - (D) Rs. 540
79. A mixture contains milk and water in the ratio 8:3. On adding 3 litres of water, the ratio of milk to water becomes 2:1. The quantity of milk in the mixture is
- (A) 27 litres
 - (B) 24 litres
 - (C) 12 litres
 - (D) 9 litres
80. The average weight of 8 persons is increased by 2 kg when one of them who weighs 52 kg is replaced by a new man. The weight of the new man is
- (A) 54 kg
 - (B) 60 kg
 - (C) 62 kg
 - (D) 68 kg
81. The monthly incomes of A and B are in the ratio 4:3 and their monthly expenses bear a ratio 3:2. If each of them saves Rs. 6,000 at the end of a month, the monthly income of A is
- (A) Rs. 48,000
 - (B) Rs. 42,000
 - (C) Rs. 24,000
 - (D) Rs. 18,000
82. The average of 3 numbers is 42. The first is twice the second and the second is twice the third. The difference between the largest and second numbers is
- (A) 36
 - (B) 54
 - (C) 72
 - (D) 18
83. After two successive discounts of 12% and 5% an article was sold for Rs. 209. The original price of the article was
- (A) Rs. 248
 - (B) Rs. 250
 - (C) Rs. 260
 - (D) Rs. 271
84. Three dealers A, B and C mark an article at the same price. A allows two series discounts of 10% and 20%, B allows two series discounts of 20% and 10%, while C allows a single discount of 30%. In this case:
- (i) All the offers are the same.
 - (ii) A and B offer the same.
 - (iii) C offers the best for the customer.
 - (iv) C offers the worst for the customer.
- Which of the above statement(s) is/are correct?
- (A) (i) only
 - (B) (ii) only
 - (C) (ii) and (iii) only
 - (D) (i) and (iv) only

85. In an examination of three papers of 100 marks each, a candidate got 72 and 56 in the first two papers. How much marks should he get in the third paper to have an aggregate of 75%?
- (A) 75 (B) 82
(C) 92 (D) 97
86. A man walks a certain distance at 8 km/hr and returns at 6 km/hr. If the total time taken by him is $3\frac{1}{2}$ hours, the total distance he walks is
- (A) 12 km (B) 24 km
(C) 30 km (D) 32 km
87. The simple interest on Rs. 540 in 4 years at 5% p.a. will be equal to the simple interest on Rs. 900 at 6% p.a. in
- (A) 2 years (B) $2\frac{1}{2}$ years
(C) 3 years (D) $3\frac{1}{2}$ years
88. A sum of Rs. 4,000 yields a compound interest of Rs. 630.50 in 3 years, interest being compounded annually. The rate of interest per annum is
- (A) 3% (B) 4%
(C) 5% (D) 6%
89. If circumference of a circle is 88 cm, then area of the circle is
- (A) 22 cm^2 (B) 38.5 cm^2
(C) 154 cm^2 (D) 616 cm^2
90. If radius of a circle is 2 units, then
- (i) Area of the circle is not numerically equal to its circumference.
(ii) Area of the circle is numerically equal to its circumference.
(iii) For a radius other than 2 units, area of the circle can be numerically equal to its circumference.
(iv) For a radius other than 2 units, area of the circle cannot be numerically equal to its circumference.
- Which of the above statement(s) is/are correct?
- (A) (i) only (B) (ii) only
(C) (ii) and (iv) only (D) (i) and (iii) only
91. The HCF of two numbers is 16 and their LCM is 160. If one of the two numbers is 32, then the other number is
- (A) 80 (B) 102
(C) 240 (D) 320
92. The value of $3 \div \left[(8-5) \div \left\{ (4-2) \div \left(2 + \frac{8}{13} \right) \right\} \right]$ is
- (A) $\frac{68}{13}$ (B) $\frac{17}{13}$
(C) $\frac{13}{17}$ (D) $\frac{13}{68}$

93. If $\sqrt{2^n} = 64$, then the value of n is
(A) 14 (B) 12
(C) 6 (D) 4
94. The smallest perfect square number which is divisible by 15, 24 and 25 is
(A) 9,000 (B) 2,025
(C) 3,600 (D) 900
95. $0.252525\dots$ is equal to
(A) $\frac{2}{9}$ (B) $\frac{1}{4}$
(C) $\frac{5}{18}$ (D) $\frac{25}{99}$
96. At a point 15m away from a tower, the angle of elevation of the top of the tower is 60° . What would be the height of the tower?
(A) $15\sqrt{3}$ m (B) 15 m
(C) $5\sqrt{3}$ m (D) $15\sqrt{2}$ m
97. In how many ways can 7 persons occupy 4 seats?
(A) 120 (B) 144
(C) 360 (D) 840
98. If the length of a shadow of a $20\sqrt{3}$ m long vertical pole is 20 m, the sun's elevation would be
(A) 90° (B) 60°
(C) 45° (D) 30°

Directions (Questions 99-100) : Study the following graph depicting registration of vehicles in Mizoram in the year 2021, and answer the questions that follow :



99. What was the average number of vehicles registered from January to June, 2021?
(A) 1933 (B) 2542
(C) 3150 (D) 5083

100. In which of the following months was the registration of vehicles other than cars maximum?
- | | |
|--------------|-----------|
| (A) February | (B) March |
| (C) April | (D) May |

SPACE FOR ROUGH WORK

SPACE FOR ROUGH WORK