

DO NOT OPEN THE SEAL UNTIL INSTRUCTED TO DO SO

Series :

a

Question Booklet No.

ESE/25/RT/P-A/2025

**GENERAL AWARENESS
AND
LOGICAL REASONING**

Invigilator's Signature

Candidate's Signature

Time : 2 Hours

Maximum Marks : 100

ROLL NO.

| | | | | | |
|--|--|--|--|--|--|
| | | | | | |
|--|--|--|--|--|--|

INSTRUCTIONS FOR CANDIDATES

1. Immediately after the commencement of the Examination, candidate should check that this Booklet does **NOT** have any unprinted, torn or missing pages/Sl. No. etc. If any defect is found, candidates should not write or mark anything on the OMR RESPONSE SHEET and immediately report it to the room Invigilator for replacement by a Complete Question Booklet.
2. Candidate should carefully read the instructions on the back of the OMR RESPONSE SHEET. They should **NOT** write Name, mark, make any stray marking or write anything irrelevant on either side of the OMR RESPONSE SHEET. Remarks other than the Answers and requisite details will be treated as revealing your identity and upon physical verification, if such remarks are found, the OMR RESPONSE SHEET will be invalidated and the candidature cancelled. No rough work should be done on the OMR RESPONSE SHEET. Rough work space provided in the Question Booklet can be used for the same.
3. Candidate should enter correct and complete digits of his/her Roll Number, Booklet Number and other details in the appropriate boxes and darken the corresponding bubbles in the OMR RESPONSE SHEET.
4. Candidate should **NOT** handle his/her OMR RESPONSE SHEET in such a manner as to mutilate, fold etc.
5. This Question Booklet contains **100** questions carrying 1 (one) mark each. Each question contains four responses. **Only one response/answer** for each question should be marked appropriately in the bubble on the OMR RESPONSE SHEET. If more than one response is marked, the answer will be considered wrong.
6. **Candidates are strictly prohibited to possess any book, notebook or loose paper, calculator, mobile phone, any electronic gadget, digital wristwatch etc., inside the Examination Hall, except his/her Unique ID, Admit Card and writing materials only.**
7. Immediately after the final bell, indicating the closure of the Examination, candidates should stop marking answers. Candidates should remain seated till the collection of OMR RESPONSE SHEET by the Invigilator. They will leave the Examination Hall after submission of OMR only after they are permitted by the Invigilator.
8. Violation of any of the above Rules will render the candidate liable to be expelled and disqualified from the Examination and according to the nature and gravity of his/her offence, he/she may be debarred from future Examinations and interviews to be conducted by the Commission and other such organizations.
9. Candidate should **not** separate/detach the candidate's copy of the OMR RESPONSE SHEET by themselves. The room Invigilator shall detach the same and handover the candidate's copy to the candidate after the completion of examination time.

NB : CANDIDATES ARE ALLOWED TO TAKE THIS QUESTION BOOKLET WITH THEM ONLY AFTER COMPLETION OF 2 (TWO) HOURS OF EXAMINATION TIME.

DO NOT OPEN THE SEAL UNTIL INSTRUCTED TO DO SO

1. When was Emergency declared in India?

[A] 1972

[B] 1977

[C] 1975

[D] 1976

2. Which international organisation was formed to promote international cooperation after World War II?

[A] The World Bank

[B] The World Health Organisation

[C] The United Nations Organisation

[D] The North Atlantic Treaty Organisation

3. Which Treaty officially ended World War I?

[A] The Treaty of Versailles

[B] The Vienna Agreement

[C] The Antarctic Treaty

[D] The Budapest Treaty

4. Where is the oldest polo ground situated in India?

[A] Nagaland

[B] Manipur

[C] Arunachal Pradesh

[D] Assam

5. Where is the 100th airport in India located?

[A] Assam

[B] Nagaland

[C] Andhra Pradesh

[D] Sikkim

6. Indian National Congress was founded by

[A] Mahatma Gandhi

[B] Jawaharlal Nehru

[C] Annie Besant

[D] A. O. Hume

7. Which Indian State was known as 'Magadha' in ancient times?

[A] Karnataka

[B] Bihar

[C] Orissa

[D] West Bengal

8. The Simon Commission was related to

[A] higher education

[B] agricultural system

[C] economic reforms

[D] constitutional reforms

9. Which city is known as 'white city' in India?

- [A] Agra
- [B] Jaipur
- [C] Udaipur
- [D] Pune

10. In which State is the Shirui Hill National Park located?

- [A] Nagaland
- [B] Arunachal Pradesh
- [C] Assam
- [D] Manipur

11. Which State **does not** share the international border with Myanmar?

- [A] Manipur
- [B] Sikkim
- [C] Nagaland
- [D] Mizoram

12. Which is the smallest country in the world?

- [A] Vatican City
- [B] Monaco
- [C] Tuvalu
- [D] Malta

13. Which State dominates coffee production in India?

- [A] Tamil Nadu
- [B] Telangana
- [C] Karnataka
- [D] Kerala

14. Which country is the leading producer of tea in the world?

- [A] India
- [B] Sri Lanka
- [C] China
- [D] Russia

15. What is the height of Mount Everest?

- [A] 8848 meters
- [B] 8884 meters
- [C] 8248 meters
- [D] 8484 meters

16. How many countries are there in the world today?

- [A] 191
- [B] 192
- [C] 195
- [D] 196

17. After 2014, when was the first demonetization announced by the Govt. of India?

- [A] November 8, 2016
- [B] November 10, 2016
- [C] November 18, 2016
- [D] November 15, 2016

18. What is the rank of India in Sustainable Development Goals (SDG) Index, 2025?

- [A] 102
- [B] 99
- [C] 87
- [D] 79

19. What is the currency of Japan?

- [A] Yen
- [B] Won
- [C] Euro
- [D] Dollar

20. When was the Operation Sindoor officially launched?

- [A] May 12, 2025
- [B] May 7, 2025
- [C] April 29, 2025
- [D] May 1, 2025

21. Which city has been selected as the national host for the 11th International Yoga Day, 2025?

- [A] Hyderabad
- [B] Visakhapatnam
- [C] Puri
- [D] Chennai

22. Which country gifted the 'Statue of Liberty' to the USA?

- [A] Germany
- [B] France
- [C] Canada
- [D] England

23. Which country hosted the BRICS Summit, 2025?

- [A] China
- [B] India
- [C] Brazil
- [D] South Africa

24. Which State was recently declared as the third Fully Literate State under ULLAS?

- [A] Kerala
- [B] Goa
- [C] Sikkim
- [D] Tripura

25. Thomas Cup is associated with which sport?

- [A] Tennis
- [B] Football
- [C] Badminton
- [D] Cricket

26. Who was the first Indian to win an individual Olympic Medal?

- [A] K. D. Jadhav
- [B] Milkha Singh
- [C] Abhinav Bindra
- [D] Neeraj Chopra

27. Which are the host countries of 2026 FIFA World Cup?

- [A] USA, Canada and Mexico
- [B] USA and Canada
- [C] Canada and Mexico
- [D] None of the above

28. Who was the first Indian cricketer to score a double century in ODI Cricket?

- [A] Virat Kohli
- [B] Rohit Sharma
- [C] Virender Sehwag
- [D] Sachin Tendulkar

29. Which city in North East India hosted the South Asian Games, 2016?

- [A] Imphal
- [B] Guwahati
- [C] Itanagar
- [D] Aizawl

30. Who is the Youngest World Chess Champion?

- [A] Viswanathan Anand
- [B] D. Gukesh
- [C] Ding Liren
- [D] Magnus Carlsen

31. Who was the first Indian to win a Gold Medal at the Olympics?

- [A] Saina Nehwal
- [B] Mary Kom
- [C] Abhinav Bindra
- [D] Neeraj Chopra

32. Commonwealth Games are held every ____ years.

- [A] two
- [B] three
- [C] four
- [D] five

33. Who is known as the 'Father of White Revolution' in India?

- [A] Satya Nadella
- [B] Narayana Murthy
- [C] M. S. Swaminathan
- [D] Verghese Kurien

34. What is the chemical name of Vitamin D?

- [A] Calciferol
- [B] Retinol
- [C] Thiamine
- [D] Tocopherol

35. When is the National Physics Day celebrated?

- [A] 24th May
- [B] 26th May
- [C] 24th April
- [D] 26th April

36. Where was the India's first satellite Aryabhata launched from?

- [A] USA
- [B] India
- [C] Ukraine
- [D] Soviet Union

37. Which vehicle successfully launched the Chandrayaan-2 satellite?

- [A] PSLV C10
- [B] GSLV MK III-M1
- [C] GSLV-F12
- [D] RISAT-3

38. What is the study of viruses called?

- [A] Virology
- [B] Vireology
- [C] Provirology
- [D] Biology

39. Exposure to which light may accelerate aging?

- [A] Blue light
- [B] Green light
- [C] Pink light
- [D] Orange light

40. Which is the largest organ in human body?

- [A] Heart
- [B] Liver
- [C] Kidney
- [D] Skin

41. Look at the following series :

2, 6, 12, 20,

Which number should come next?

[A] 30

[B] 32

[C] 28

[D] 27

42. If all *A* are *B* and all *B* are *C*, then which of the following is **true**?

[A] All *A* are *C*

[B] Some *C* are *A*

[C] Some *A* are not *C*

[D] All *C* are *A*

43. Find the odd one out from the given set of numbers :

14, 28, 35, 47, 56, 84

[A] 56

[B] 84

[C] 35

[D] 47

44. Pointing to a photo of a boy, Raju said, "He is the son of the only son of my mother". How is Raju related to the boy?

[A] Father

[B] Cousin

[C] Nephew

[D] Uncle

45. According to a lease, tenants are not allowed to sublet their apartment without the landlord's consent. Which of the following situations is a violation of this lease condition?

[A] Jack allows a friend to stay overnight for the weekend

[B] John sublets his apartment to a colleague for a month while he travels abroad without notifying the landlord

[C] Mary invites her cousin to visit for a few days over the holidays

[D] Raj asks the landlord for permission to sublet his apartment for three months

46. Three of the following four words are alike in a certain way and one is different. Select the odd one.

[A] Spectacles

[B] Goggles

[C] Optical reader

[D] Bifocals

47. Three of the following four words are alike in a certain way and one is different. Pick the odd one out.

[A] Hexagon

[B] Hendecagon

[C] Heptagon

[D] Pentagon

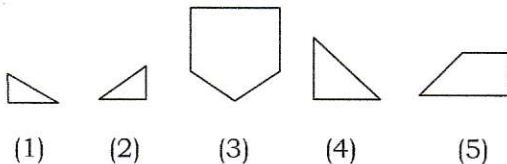
48. If the mirror is placed vertically, then identify the **correct** mirror image of OBSTINATE.

- [A] ETANIT2BO
- [B] BOSTINATE
- [C] ETANITSBO
- [D] SOBTNIATE

49. Find the mirror image of a clock showing the time as 6:30.

- [A] 4:30
- [B] 5:30
- [C] 12:30
- [D] 10:30

50. Select the alternative group that will make a perfect square :



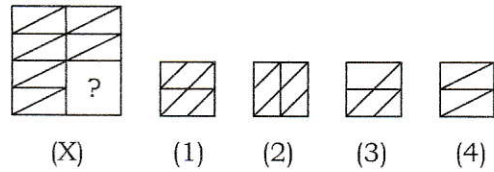
- [A] 1, 4, 5
- [B] 2, 3, 5
- [C] 2, 4, 4
- [D] 1, 2, 3

51. What comes next in the following series?

10, B, 100, D, 200, G, 310,

- [A] J, 400
- [B] K, 430
- [C] L, 390
- [D] J, 430

52. Identify the figure that completes the pattern :



- [A] 1
- [B] 2
- [C] 3
- [D] 4

53. A recipe calls for 2 cups of sugar to make 24 cookies. How many cups of sugar are needed to make 36 cookies using the same recipe?

- [A] 3 cups
- [B] 2 cups
- [C] 5 cups
- [D] 6 cups

54. $67 : 76 :: 42 : ?$

- [A] 52
- [B] 61
- [C] 51
- [D] 45

55. If all *P* are *Q* and all *Q* are *R*, then which of the following is **true**?

- [A] All *P* are *R*
- [B] Some *R* are *Q*
- [C] All *R* are *P*
- [D] Some *Q* are not *P*

56. In a family, each daughter has the same number of brothers as she has sisters and each son has twice as many sisters as he has brothers. How many sons are there in the family?

[A] 3

[B] 2

[C] 5

[D] 4

57. Statements : Some actors are singers.
All the singers are dancers.

Conclusions :

(1) Some actors are dancers.

(2) No singer is actor.

[A] Only Conclusion (1) follows

[B] Only Conclusion (2) follows

[C] Either Conclusion (1) or (2) follows

[D] Neither Conclusion (1) nor (2) follows

58. Statements : Some papers are pens. All the pencils are pens.

Conclusions :

(1) Some pens are pencils.

(2) Some pens are papers.

[A] Only Conclusion (1) follows

[B] Only Conclusion (2) follows

[C] Either Conclusion (1) or (2) follows

[D] Both Conclusions (1) and (2) follow

59. In a garden, there are 10 rows and 12 columns of mango trees. The distance between the two trees is 2 metres and a distance of 1 metre is left from all sides of the boundary of the garden. The length of the garden is

[A] 20 m

[B] 22 m

[C] 24 m

[D] 26 m

60. The total age of Ram, Shyam and Ravi is 80 years. What was their total age three years ago?

[A] 71 years

[B] 72 years

[C] 74 years

[D] 77 years

61. Water : Dam :: Trade : ?

[A] Economy

[B] Trade policy

[C] Commerce

[D] Goods

62. Wind : Hurricane :: ?

[A] Sky : Universe

[B] Thunder : Lighting

[C] Clouds : Rain

[D] Water : Life

63. Find the number that **does not** form the group.

- [A] 3229
- [B] 4127
- [C] 5218
- [D] 7018

64. Yard is to Inch as Quart is to

- [A] Gallon
- [B] Ounce
- [C] Milk
- [D] Liquid

65. The words in the bottom row are related in the same way as the words in the top row. For each item, find the word that completes the bottom row of words :

| | | |
|--------|---------|------------|
| Candle | Lamp | Floodlight |
| Hut | Cottage | ? |

- [A] House
- [B] City
- [C] Dwelling
- [D] Tent

66. Find the number which, when added to itself 13 times, gives 112.

- [A] 8
- [B] 7
- [C] 9
- [D] 10

67. 12-year-old Raju is three times as old as his brother Ajay. How old will Raju be when he is twice as old as Ajay?

- [A] 14 years
- [B] 20 years
- [C] 18 years
- [D] 16 years

68. In a row of students, Jack is 8th from the left end and Julie is 12th from the right end. Calculate the total number of students in the row.

- [A] 21
- [B] 20
- [C] 19
- [D] 18

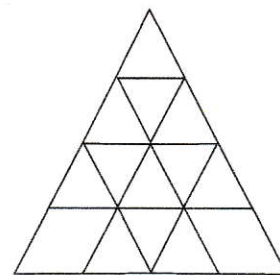
69. After the end of a seminar, ten participants present shake hands with each other. How many handshakes will be there altogether?

- [A] 45
- [B] 20
- [C] 90
- [D] 55

70. A woman says, "If you reverse my own age, the figures represent my husband's age. He is, of course, senior to me and the difference between our ages is one-eleventh of their sum". The woman's age is

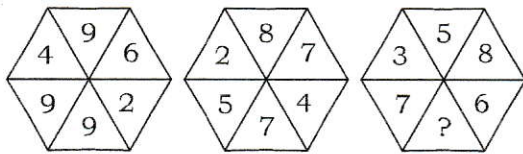
- [A] 45 years
- [B] 34 years
- [C] 25 years
- [D] 55 years

71. What is the total number of triangles in the grid below?



- [A] 22
- [B] 26
- [C] 27
- [D] 23

72. Which number should replace the question mark?



- [A] 1
[B] 2
[C] 3
[D] 4
73. If the word HAPPY is coded as KDDMO, then how would SMILE be coded?
- [A] WQLKN
[B] VNQLK
[C] UPMJN
[D] VNPLM
74. If 'white' is called 'yellow', 'yellow' is called 'blue', 'blue' is called 'red', 'red' is called 'black', 'black' is called 'violet' and 'violet' is called 'green', then what would be the colour of light emitting from bulb?
- [A] Blue
[B] Black
[C] Red
[D] Violet
75. In a certain code language, THEN is written as RLBS. Which word will be written as AEPJ in that code language?
- [A] CGDE
[B] CEAD
[C] CASE
[D] SGHE

76. In a certain code language, '436' means 'colour is fun', '24' means 'blue colour' and '526' means 'sky is blue'. Which digit in that language means 'fun'?

- [A] 2
[B] 3
[C] 4
[D] 5

77. If the letters of the word PRODUCT are arranged alphabetically, then which letter would be farthest from the second letter of the word?

- [A] U
[B] R
[C] T
[D] P

78. In a certain code language, PROSE is coded as PPOQE. How is LIGHT coded in that code?

- [A] LIGFT
[B] LGGHT
[C] LGGFT
[D] LGGFE

79. In a certain code, BELIEF is written as AFKKDI. How is SELDOM written in that code?

- [A] RDKCNL
[B] RFKENM
[C] RFKFNP
[D] None of the above

80. If the letters of the word ZEBRONICS are arranged alphabetically, then which letter would be the 2nd to the right from the first letter of the word?

- [A] Z
- [B] E
- [C] R
- [D] C

81. In a certain code "564" means "study very hard", "736" means "hard work pays" and "423" means "study and work". Which of the following is the code for "study"?

- [A] 6
- [B] 4
- [C] 5
- [D] 7

82. In the question, assuming the given Statement to be true, find which of the given two Conclusions is/are definitely **true** and then give your answer according to it :

Statement :

$$H < A < T = G > U \geq V \geq B$$

Conclusions :

- (1) $T > B$
- (2) $G > H$
- [A] Only Conclusion (1) follows
- [B] Only Conclusion (2) follows
- [C] Both Conclusions (1) and (2) follow
- [D] None of the above

83. Six friends Neha, Priya, Sita, Saroj, Mayank and Vipin are sitting around a circular table, facing towards the centre of the table but not necessarily in the same order. Only Sita is sitting between Vipin and Mayank. Priya is sitting second to the left of Mayank. Saroj is sitting to the immediate right of Vipin. Who is sitting second to the left of Sita?

- [A] Saroj
- [B] Priya
- [C] Vipin
- [D] Neha

84. A, B, C, D and E are sitting on a bench. A is sitting next to B, C is sitting next to D, D is not sitting with E who is on the left end of the bench. C is on the second position from the right. A is to the right of B and E. A and C are sitting together. In which position is A sitting?

- [A] Between B and D
- [B] Between E and D
- [C] Between B and C
- [D] Between C and E

85. A person has 4 coins each of different denominations. What is the number of different sums of money the person can form (using one or more coins at a time)?

- [A] 17
- [B] 12
- [C] 15
- [D] 10

86. Which should come in place of question mark in the following series?

132, 156, ?, 210, 240, 272

- [A] 196
- [B] 199
- [C] 182
- [D] 200

87. What is the product of all the numbers in the dial of a telephone?

- [A] 158480
- [B] 150460
- [C] 156972
- [D] None of the above

88. If a car travels at a speed of 70 kilometres per hour, how long will it take to cover a distance of 350 kilometres?

- [A] 4 hours
- [B] 5 hours
- [C] 6 hours
- [D] 7 hours

89. If the mean of a data set (25, 29, 25, 32, 24 and X) is 27, then the median is

- [A] 32
- [B] 26
- [C] 27
- [D] 25

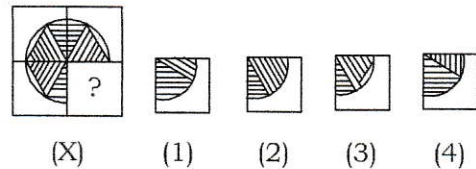
90. Peacock : India :: Bear : ?

- [A] Russia
- [B] Australia
- [C] England
- [D] America

91. Encyclopedia : Knowledge :: Thesaurus : ?

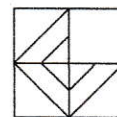
- [A] Synonyms
- [B] Words
- [C] Antonyms
- [D] None of the above

92. Identify the figure that completes the following pattern :



- [A] 1
- [B] 2
- [C] 3
- [D] 4

93. Identify the figure which completes the following pattern :



- [A]
- [B]
- [C]
- [D]

94. *A* and *B* are brothers. *C* is *A*'s mother. *D* is *C*'s father. How is *D* related to *B*?

- [A] Father
- [B] Grandfather
- [C] Grandmother
- [D] None of the above

95. Which of the following is the most likely conclusion to be drawn from the following statements?

Statement 1 : All cats are mammals.

Statement 2 : Some mammals are furry.

- [A] Some furry animals are cats
- [B] All mammals are furry
- [C] All furry animals are mammals
- [D] None of the above

96. I walk 30 metres in North-West direction from my house and then 20 metres in South-West direction. After this, I walk 30 metres in South-East direction. Now, I turn to my house. In what direction am I going?

- [A] North-West
- [B] North-East
- [C] South-West
- [D] South-East

97. A mango costs ₹7. A lemon costs ₹5. Raj spends ₹38 on these fruits. The number of mangoes purchased by Raj is

- [A] 5
- [B] 6
- [C] 7
- [D] 4

98. What is the value of y in the given equation?

$$\frac{5x+10}{2xy+4y}=1$$

- [A] 2.5
- [B] 3
- [C] 5
- [D] 4

99. Find the odd one out.

- [A] Bicycle
- [B] Motorcycle
- [C] Car
- [D] Jeep

100. **Statements :** All chairs are tables. Some tables are wooden.

Conclusions :

- (1) Some chairs are wooden.
- (2) All tables are wooden.
- [A] Only Conclusion (1) follows
- [B] Only Conclusion (2) follows
- [C] Both Conclusions (1) and (2) follow
- [D] Neither Conclusion (1) nor (2) follows

PROVISIONAL ANSWER KEY OF
ARUNACHAL ENGINEERING SERVICE
(RECRUITMENT TEST) EXAMINATION-2025
GENERAL AWARENESS & LOGICAL REASONING
SET- A

| Q NO. | ANS |
|-------|-----|
| 1 | C |
| 2 | C |
| 3 | A |
| 4 | B |
| 5 | D |
| 6 | D |
| 7 | B |
| 8 | D |
| 9 | C |
| 10 | D |
| 11 | B |
| 12 | A |
| 13 | C |
| 14 | C |
| 15 | A |
| 16 | C |
| 17 | A |
| 18 | B |
| 19 | A |
| 20 | B |
| 21 | B |
| 22 | B |
| 23 | C |
| 24 | D |
| 25 | C |

| Q NO. | ANS |
|-------|-----|
| 26 | A |
| 27 | A |
| 28 | D |
| 29 | B |
| 30 | B |
| 31 | C |
| 32 | C |
| 33 | D |
| 34 | A |
| 35 | C |
| 36 | D |
| 37 | B |
| 38 | A |
| 39 | A |
| 40 | D |
| 41 | A |
| 42 | A |
| 43 | D |
| 44 | A |
| 45 | B |
| 46 | C |
| 47 | A |
| 48 | A |
| 49 | B |
| 50 | D |

| Q NO. | ANS |
|-------|-----|
| 51 | B |
| 52 | D |
| 53 | A |
| 54 | C |
| 55 | A |
| 56 | A |
| 57 | A |
| 58 | D |
| 59 | C |
| 60 | A |
| 61 | B |
| 62 | C |
| 63 | B |
| 64 | B |
| 65 | A |
| 66 | A |
| 67 | D |
| 68 | B |
| 69 | A |
| 70 | A |
| 71 | D |
| 72 | A |
| 73 | B |
| 74 | A |
| 75 | C |

| Q NO. | ANS |
|-------|-----|
| 76 | B |
| 77 | A |
| 78 | C |
| 79 | C |
| 80 | B |
| 81 | B |
| 82 | C |
| 83 | D |
| 84 | C |
| 85 | C |
| 86 | C |
| 87 | D |
| 88 | B |
| 89 | B |
| 90 | A |
| 91 | A |
| 92 | C |
| 93 | A |
| 94 | B |
| 95 | A |
| 96 | B |
| 97 | D |
| 98 | A |
| 99 | A |
| 100 | D |