

Screening Test (Level 1) for the post of Junior Superintendent (Library)

Time: 2 hours 30 minutes

Maximum Marks: 100

INSTRUCTIONS TO CANDIDATES

1. This question paper contains One hundred (100) objective type questions. There are four choices for answer (A, B, C, D). Choose the correct answer (one only) for each question and mark the answers on the OMR sheet.
2. The candidate should check that the question paper does not have any unprinted or torn or missing pages or questions etc. If so, get it replaced with another question paper.
3. One (1) mark will be awarded for each correct answer and 0.25 mark will be deducted for every wrong answer. The unanswered questions will not attract negative marks.
4. Return the question paper and the answer Sheet to the invigilator after the examination is over.
5. Mobile, Electronic Watch and other Electronic Gadgets are prohibited in the examination.
6. Use of Unfair Means in Examination will lead to cancellation of candidature.

-
1. How many A's are there in the following series which are immediately followed by B as well as immediately preceded by Z ?

A M B Z A N A A B Z A B A Z B A P Z A B A Z A B

- A. One B. Two C. Three D. More than three
2. Thirty six vehicles are parked in a parking lot in a single row. After the first car, there is one scooter. After the second car, there are two scooters. After the third car, there are three scooters and so on. Work out the number of scooters in the second half of the row.
A. 10 B. 12 C. 15 D. 17.
 3. Three persons A, B and C are standing in a queue. There are five persons between A and B and eight persons between B and C. If there be three persons ahead of C and 21 persons behind A. What could be the minimum number of persons in the queue ?
A. 41 B. 40 C. 28 D. 27
 4. A monkey climbs 30 feet at the beginning of each hour and rests for a while when he slips back 20 feet before he again starts climbing in the beginning of the next hour. If he begins his ascent at 8:00 AM, what time will he first touch a flag at 120 feet from the ground?
A. 4 PM B. 5 PM C. 6 PM D. None of these.

5. Which answer figure will continue the same series as established by the problem figures?

Problem figures:

□ Δ	Δ		=	= ○ *
	□	□	□	□
	○	↑ Δ ○	↑ Δ ○	↑ Δ
A	B	C	D	E

Answer figures:

= ○ *	○ * Δ	□ = ○	= ○ *
□	Δ = #	↑	* □
↑ #	□ ↑	# Δ	↑
1	2	3	4

- A. 1 B. 2 C. 3 D. 4

6. A man is 24 years older than his son. In two years, his age will be twice the age of his son. The present age of his son is:

- A. 13 years B. 14 years C. 20 years D. 22 years

7. Peter is in the East of Tom and Tom is in the North of John. Mike is in the South of John then in which direction of Peter is Mike?

- A. South-East B. South-West C. South D. North-East

Direction for question Nos. 8 & 9: Each question is followed by two statements numbered I and II. You are required to analyze the data of both statements and decide whether the statements are sufficient to answer the question. After analyzing the statements, you have to choose the appropriate answer out of the four answer choices which are as follows;

8. How many visitors saw the trade fair yesterday?

- I. Each entry pass holder is allowed to take up to three persons with him or her.
II. In all, 277 entry passes were sold yesterday.

- A. Statement I alone is sufficient, but statement II alone is not sufficient
B. Statement II alone is sufficient, but statement I alone is not sufficient
C. Either Statement I or II is sufficient
D. Data in both the statements together are not sufficient

9. What is Tom's rank in the class?

- I. There are 45 students in the class.
II. 42 students scored less than Tom.

- A. Statement II alone is sufficient, but statement I alone is not sufficient
B. Either Statement I or II is sufficient
C. Data in both the statements together are not sufficient
D. Both I and II are needed

Direction for Question Nos.10 to 12: The question is followed by four possible answers. The alternatives other than the correct answer also seem to have a relationship with the item mentioned in the statement. You are required to select the absolute truth which always holds or verifies the truth of the statement.

10. Which of the following an animal always has? ———

- A. Lungs B. Skin C. Heart D. Life

11. Which of the following a 'Drama' must have?

- A. Actors B. Story C. Sets D. Director

12. Danger always involves

- A. Enemy B. Attack C. Fear D. Help

13. The correct matching between statement 1 and 2

Statement 1

- (a) A dog's life
(b) Every dog has his day
(c) Let sleeping dogs lie

Statement 2

- (i) constantly, worried, troubled or miserable
(ii) to let it be quite
(iii) everyone can succeed sooner or later.

- A. a(iii), b(ii), c(i) B. a(iii), b(i), c(ii) C. a(ii), b(iii), c(i) D. a(i), b(iii), c(ii)

14. Which word does not belong to others?

- A. Eye B. Heart C. Kidney D. Ear

15. A leader is to guide as reduce is to

- A. Increase B. Decrease C. Save D. Preserve

16. How many times do the hands of the clock coincide in a day?

- A. 22 B. 24 C. 20 D. 21

17. Find the wrong number in the series, 2, 6, 15, 31, 56, 93.

- A. 93 B. 15 C. 31 D. 56

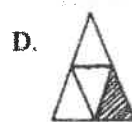
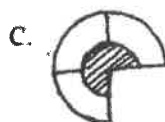
18. Find the missing numbers in the series, 4, 20, 7, 14, 10, 8, 13, __, __.

- A. 2, 18 B. 2, 14 C. 2, 16 D. 2, 15

19. Pointing to a photograph of a woman Rohan says, "She is the sister-in-law of the only daughter of my mother-in-law's husband." How is the Rohan related to the woman?

- A. Son B. Brother C. Brother-in-law D. Father

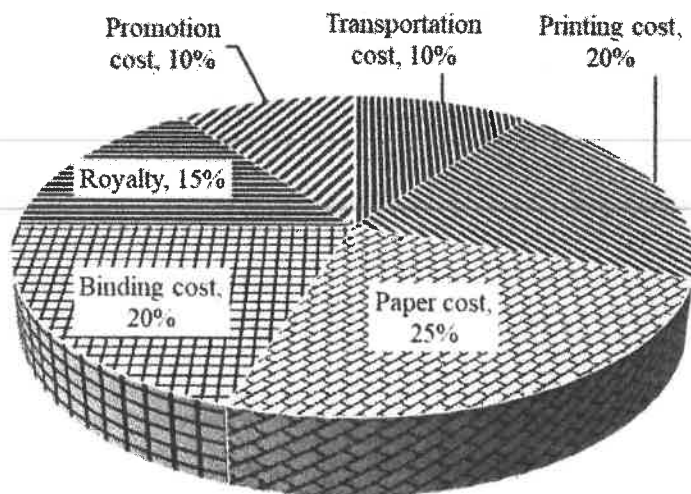
20. Find the odd one out:



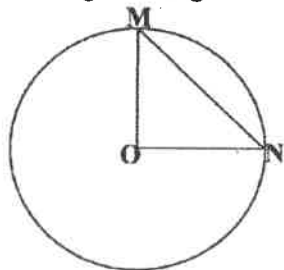
21. Tom left for his office in his car. He travelled 5 km towards the North and then 10 km towards the East. He then travelled 3 km towards the South. Further, he turned to the West and travelled 2 km. Finally, he turned towards the South and travelled 2 km. How far and in which direction is he from the starting point?
- A. 8 km South B. 7 km East C. 8 km East D. 2 km South
22. 5 clocks ring automatically at intervals of 12 minutes, 8 minutes, 3 minutes, 4 minutes and 10 minutes, respectively. In 8 hours from the moment they start, how many times will they ring together?
- A. 12 times B. 5 times C. 3 times D. 4 times
23. What is the difference between 1500 and nearest perfect square number?
- A. 131 B. 100 C. 56 D. None of the above
24. A person is to reach a destination 40 km away. If he covers the first 25 km in 4 hours than at what constant speed should he go so that the average speed for the whole journey becomes 8 km/hour?
- A. 12 km/hour B. 13 km/hour C. 14 km/hour D. 15 km/hour
25. A cyclist was moving with a speed 20 km/hour. Behind the cyclist at a distance of 100 km was a biker moving in the same direction with a speed of 40 km/hour. After what time will the biker over take the cyclist?
- A. 2.5 hours B. 4 hours C. 5 hours D. 6 hours
26. Five rods are kept in a line such that any of the rods is thrice the length of the previous one. The average length of the rods is about
- A. 16 times the first rod. B. 24 times the first rod.
C. 9 times the first rod. D. 36 times the first rod.
27. A number when divided by 6 leaves a remainder 3. When the square of the same number is divided by 6, the remainder is :
- A. 9 B. 1 C. 3 D. 2
28. A sum of two numbers is 8 times their difference. Then the numbers are in the ratio
- A. 8:9 B. 9:7 C. 8:1 D. 1:8
29. A container contains 40 litres of milk. From this container, 4 litres of milk were taken out and replaced by water. This process was repeated further two times. How much milk is now contained by the container?
- A. 28 liters B. 29.16 liters C. 32 liters D. None of the these
30. An examination consists of 10 multiple choice questions, where each question has 4 options, only one of which is correct. In every question, a candidate earns 3 marks for choosing the correct option, and -1 for choosing a wrong option. Assume a candidate answers all questions by choosing exactly one option for each. Then the number of distinct combinations of answers which can earn the candidate a score from the set {15,16,17,18,19,20} is
- A. 27 B. 120 C. 3240 D. 6480

31. A group of boys and girls know either Hindi or English. The number of boys and girls are in the ratio 1:3. 20% of the girls know English and rest of them know Hindi. On the other hand, 48% of the boys know English and rest of them know Hindi. A student is chosen at random from the group of students who knows English. What is the probability that the chosen student is girl?
A. $\frac{3}{5}$ — B. $\frac{5}{9}$ — C. $\frac{30}{43}$ — D. $\frac{50}{91}$ —
32. P can do a job in 30 days, while Q alone can do it in 45 days. They work together for 15 days and rest of the job is done by R in 6 days. They get Rs.15000 for the whole job. What will be R's share?
A. Rs. 5000 B. Rs. 2500 C. Rs. 7500 D. Rs. 1500
33. An integer is 10 more than its one-third part. The integer is
A. 15 B. 12 C. 18 D. 25
34. A has an amount which is 120% of what B has. What percent of the money should A give to B so that they have equal amounts?
A. 6% B. 10% C. 8.33 % D. 12.5%
35. A train leaves Guwahati at 5:00 a.m and reached Silchar at 9:00 a.m . Another train leaves Silchar at 7 a.m and reaches Guwahati at 10:30 am. At what time do the two trains crossed each other?
A. 7:36 a.m B. 7:56 a.m C. 8:00 a.m D. 8:26 a.m
36. Three pipes A, B, C can fill a tank from empty to full in 30 minutes, 20 minutes and 10 minutes respectively. When the tank is empty, all the three pipes are opened. A, B and C discharge chemical solutions P, Q and R respectively. What is the proportion of solution R in the liquid in the tank after 3 minutes?
A. $\frac{5}{11}$ B. $\frac{6}{11}$ C. $\frac{7}{11}$ D. $\frac{8}{11}$
37. If x and y are negative, then which of the following statement is/are always true ?
I. $x + y$ is positive
II. xy is positive
III. $x - y$ is positive
A. I only B. II only C. III only D. I and III only

Direction for Questions 38 to 43: The following pie-chart shows the percentage distribution of the expenditure incurred in publishing a book. Study the pie-chart and the answer the questions based on it:



38. If for a certain quantity of books, the publisher has to pay Rs. 30,600 as printing cost, then what will be amount of royalty to be paid for these books?
 A. Rs. 19,450 B. Rs. 21,200 C. Rs. 22,950 D. Rs. 26,150
39. For an edition of 12,500 copies, the amount of Royalty paid by the publisher is Rs. 2,81,250. What should be the selling price of the book if the publisher desires a profit of 5%?
 A. Rs. 152.50 B. Rs. 157.50 C. Rs. 162.50 D. Rs. 167.50
40. The price of the book is marked 20% above the C.P. If the marked price of the book is Rs. 180, then what is the cost of the paper used in a single copy of the book?
 A. Rs. 36 B. Rs. 37.50 C. Rs. 42 D. Rs. 44.25
41. If 5500 copies are published and the transportation cost on them amounts to Rs. 82500, then what should be the selling price of the book so that the publisher can earn a profit of 25%?
 A. Rs. 187.50 B. Rs. 191.50 C. Rs. 175 D. Rs. 180
42. Royalty on the book is less than the printing cost by:
 A. 33.50% B. 33.20% C. 25% D. 20%
43. What is the central angle of the sector corresponding to the expenditure incurred on Royalty?
 A. 15° B. 24° C. 54° D. 48°
44. In the figure below, O is the center of the circle and, M and N lie on the circle. The area of the right triangle MON is 50 cm^2 . What is the area of the circle in cm^2 ?



- A. 2π B. 100π C. 75π D. 50π

45. The difference between the Compound Interest and the Simple interest on a sum of money lent for 2 years at 20% interest per annum is Rs.80. The sum is
A. Rs.1200 B. 2000 C. 1800 D. 1500
46. The difference between length and breadth of a rectangle is 23 m. If its perimeter is 206 m, then its area will be :
A. 1520 sq m B. 2420 sq m C. 2480 sq m D. 2520 sq m
47. Two pipes can fill a tank in 20 and 24 minutes respectively and a waste pipe can empty 3 gallons per minute. All the three pipes working together can fill the tank in 15 minutes. The capacity of the tank is:
A. 60 gallons B. 100 gallons C. 120 gallons D. 180 gallons
48. P and Q together can complete a work in 20 days. If P alone can complete the same work in 36 days, then in how many days Q alone can complete the same work?
A. 48 days B. 42 days C. 45 days D. 51 days
49. A sum becomes Rs.5975 in 3 years and Rs.6,950 in 6 years. What is the rate of interest, if interest is provided on simple interest method?
A. 6.5 % p.a B. 9.5% p.a. C. 6% p.a. D. None of these.
50. The least common multiple (LCM) of two numbers is 24. If each number is multiplied by 9 then the new LCM will be
A. 36 B. 72 C. 216 D. determined only if the original numbers are known.
51. A man standing near a railway track observes that a train passes him in 80 seconds but to pass by a 180 m long bridge, the same train takes 200 seconds. Find the speed of the train:
A. 1.5 meter/sec B. 1.2 meter/sec C. 1.8 metre/sec D. None of these
52. A man has to go from a port to an island and return. He can row a boat with a speed of 7 km/hr in still water. The speed of the stream is 2 km/hr. If he takes 56 minutes to complete the round trip, find the distance between the port and the Island.
A. 3.27 km B. 3.5 km C. 3 km D. 4.2 Km
53. How many words can be made from the word "APPLE" using all the alphabets with repetition and without repetition respectively?
A. 1024, 60 B. 1024, 240 C. 1024, 1024 D. 240, 1024
54. An institute organised a fete and $\frac{1}{5}$ of the girls and $\frac{1}{8}$ of the boys participated in the same. What fraction of the total number of students took part in the fete ?
A. $\frac{2}{13}$ B. $\frac{13}{40}$ C. Data inadequate D. None of these
55. If the seventh day of a month is three days earlier than Friday, what day will it be on the nineteenth day of the month?
A. Sunday B. Monday C. Wednesday D. Friday
56. Find the missing number of the series 3,5,11, _____, 35,53
A. 21 B. 17 C. 19 D. 23

57. How many pairs of squares in a chess board share exactly one corner?
A. 49 B. 64 C. 98 D. 128
58. The sum of three different natural numbers is equal to their product. The sum of their squares is
A. 23 B. 20 C. 17 D. 14
59. A solid cube of gold is melted and made into smaller cubes of sides half the original. How many such smaller cubes are made?
A. 8 B. 4 C. 2 D. 16
60. A cuboid is of dimensions 60 cm × 54 cm × 30 cm. How many small cubes with side 6 cm can be placed in the given cuboid?
A. 284 B. 216 C. 225 D. 450

Direction for Questions 61 to 64: Read the following comprehension and answer the questions that follow:

There are a number of vocal noises which can be 'superimposed' on the stream of speech. It is possible, for example, to speak while sobbing, crying, laughing, or giggling, or we can introduce a tremulous 'catch' in our voice. The auditory effects are usually immediate and dramatic – though the meaning conveyed is sometimes unclear, and always subject to cultural variation. A giggle can convey humour, innuendo, sexual interest, and several other nuances. In Britain it is most commonly used in joking; in Japan it is more often a sign of embarrassment. We can also change our tone of voice by altering the quality of sound we produce in the vocal tract. Normally, the sound produced by our vocal folds yields a vibrant voicing which we hear in every vowel and in most of the consonants. But it is possible to speak without producing any voicing at all. This phenomenon is called whispering and whisper conveys meaning, usually a 'conspiratorial' effect of some kind.

61. What is the meaning of 'tremulous' in the above passage?
A. unsteady and shaking B. loud and coarse
C. altering and differing D. silent and low
62. Which of the following word in the passage means "allusive or oblique remark"?
A. immediate B. humour C. whispering D. innuendo
63. How do other sounds affect the human speech?
A. They are superimposed on the actual speech.
B. They produce chemical imbalance in the brain.
C. They get altered during the production of speech.
D. They do not interfere with the human speech.
64. Choose the correct option.
A. It is impossible to speak without producing any voicing.
B. It is impossible to speak while sobbing and crying.
C. Both A and B
D. Neither A nor B

65. Which of the following sentences could imply that the scorpion was standing at the gate?
- A. Ram was stung by a scorpion while he was standing at the gate.
 - B. Standing at the gate, Ram was stung by a scorpion.
 - C. While Ram was standing at the gate, a scorpion stung him.
 - D. Standing at the gate, a scorpion stung Ram.

66. Which one of the following is a correct sentence?
- A. For sale piano, the property of a musician, with carved legs
 - B. For sale, piano, the property of a musician with carved legs.
 - C. For sale, piano with carved legs, the property of a musician
 - D. For sale piano the property of a musician with carved legs.

67. Which is the correct collective noun for mosquitoes?
- A. Lot of mosquitoes
 - B. Herd of mosquitoes
 - C. Band of mosquitoes
 - D. Swarm of mosquitoes

Choose the one which best expresses the meaning of the underlined part of the sentence (question Nos.68 to 70)

68. I could achieve success through conscious efforts.
- A. efforts done after gaining consciousness
 - B. efforts made with critical awareness
 - C. efforts done without any desire
 - D. tremendous efforts
69. Few teachers have been spared the problem of an obstreperous pupil in the class:
- A. awkward
 - B. Lazy
 - C. unruly
 - D. sullen
70. The story is too fantastic to be credible
- A. Praiseworthy
 - B. readable
 - C. believable
 - D. false

Out of the four alternatives suggested select the one which best expresses the same sentence in Indirect Speech (Question Nos.71 & 72)

71. He said to her, "Don't read too fast."
- A. He told her not to read so fast.
 - B. He advised her don't read so fast
 - C. He requested her not to read so fast
 - D. He ordered her not to read so fast
72. "If you don't keep quite I shall shoot you," he said to her in a calm voice.
- A. He warned her to shoot if she didn't keep quite calmly.
 - B. He said calmly that I shall shoot you if you don't be quite
 - C. He warned her calmly that he would shoot her if she didn't keep quite.
 - D. Calmly he warned her that be quiet or else he will have to shoot her.
73. Choose the one which best expresses the meaning of the given word:
SALACITY
- A. Morality
 - B. Wisdom
 - C. Sanity
 - D. Uprightness

74. Choose the one which best expresses the meaning of the given word:
COGNOSCENTE

- A. Speculator B. Teacher C. Critic D. Preacher

75. Choose the word opposite in meaning to the given word:

PRECARIOUS

- A. Dangerous B. Safe C. Cautious D. Easy

76. Choose the word opposite in meaning to the given word:

ABHORRENCE

- A. Aversion B. Liking C. Appreciation D. Fear

77. A Sentence or a paragraph is broken into several parts which are then jumbled up and labelled (1), (2), (3), (4), (5),.....(9). Rearrange these parts into a meaningful format and then choose the correct order from among the alternatives provided.

- (1) in some of the developed countries
- (2) in the developing countries
- (3) mostly in the form of beef, pork, etc.
- (4) about 180 kilograms
- (5) per capita consumption is
- (6) of grain per capita annually
- (7) the people
- (8) five times that amount
- (9) consume only

- A. 1, 7, 9, 4, 6, 2, 5, 8, 3 B. 1, 5, 8, 2, 7, 9, 4, 6, 3
C. 7, 2, 9, 4, 6, 1, 5, 8, 3 D. 5, 8, 1, 2, 7, 9, 4, 6, 3

78. Select the combination of numbers so that letters arranged accordingly will form a meaningful word.

G A N I M E
1 2 3 4 5 6

- A. 1 2 4 3 6 5 B. 6 3 4 1 5 2 C. 5 2 1 4 3 6 D. 2 5 1 4 3 6

79. Which one of the following sentences is not in passive voice?

- A. The thief was caught
- B. The mouse was the prey of the cat
- C. The dog was teased by the boy
- D. The bird was killed.

80. Find out which part of a sentence has an error. If there is no mistake, the answer is 'No error'.

All the furnitures have been sent to the new house located in a village.

- A. All the furnitures have been B. sent to the new house
C. located in a village D. No error

81. The Indian Parliament consists of
A. Lok Sabha and Rajya Sabha.
B. Lok Sabha, Rajya Sabha and Prime Minister.
C. Lok Sabha, Rajya Sabha and the Speaker.
D. Lok Sabha, Rajya Sabha and the President.
82. The Union of India has no official
A. Language B. Religion C. Animal D. Flower
83. The Union Cabinet is composed of :
A. The Prime Minister, the President and the Comptroller and Auditor General
B. The Prime Minister and his political party heads
C. The Prime Minister, as first among equals with his/her cabinet ministers
D. The Prime Minister, Member of Parliaments and the Speaker
84. Which of following is not a correct statement with respect to the Preamble of Indian Constitution?
A. Preamble is enforceable in court of law
B. It depicts the nature of Indian States
C. It defines the objective of the Constitution
D. It mentions the date of adoption of the Constitution
85. The Chairman of the Planning Commission in India is the
A. President B. Prime Minister C. Minister of Planning D. Finance Minister
86. Who administers the oath of office to the President of India before he enters upon the office?
A. Chief Justice B. Speaker C. Vice President D. Prime Minister
87. The last edition of the Asian Games was held in
A. Japan B. China C. Indonesia D. South Korea
88. India's first indigenous e-Tractor Prima ET11 is developed by which institution?
A. L&T B. DRDO C. CSIR D. IIT Madras
89. Which institution releases Digital Payments Index (DPI) in India?
A. RBI B. NPCI C. NITI Aayog D. Finance Ministry
90. India's first Common Testing Centre for Unmanned Aerial Systems is set to established in which state/UT?
A. Tamil Nadu B. Maharashtra C. New Delhi D. Punjab
91. 'White Goods', which are sometimes seen in the news, refer to _____
A. Milk products B. Air conditioners C. Palm Products D. Cryptocurrencies
92. What is the name of the Operation launched by India, to bring back its citizens from Israel and Palestine?
A. Operation Ajay B. Operation Abhay C. Operation Atal B. Operation Arun
93. Standardised Precipitation Index (SPI) is a tool used to monitor which parameter?
A. Flood B. Drought C. Air Quality D. Radiations

94. Which Indian chess player replaced Viswanathan Anand as the country's top-ranked player?

- A. R. Praggnananda B. D Gukesh C. Nihal Sarin D. Arjun Erigaisi

95. The office of Chief Election Commissioner is held by

- A. Shri. Rajiv Kumar B. Shri. Ashok Lavasa
C. Shri. Sushil Chandra D. Shri. Sunil Arora

96. Keeladi is on the banks of the river

- A. Vaigai B. Thamirabarani C. Thenpennai D. Thirumanimutharu

97. Which of the following country is a part of the organisation called BRICS?

- A. South Korea B. Singapore C. South Africa D. Sri Lanka

98. Dr Abdul Kalam island is located in

- A. Odisha B. Tamil Nadu C. Andhra Pradesh D. Gujarat

99. Which of the following is not an Institute under the Ministry of Education?

- A. SPA B. IMU C. IIT D. NIT

100. Which of the following is not a department under the Ministry of Education?

- A. Department of School Education & Literacy
B. Department of Higher Education
C. Department of Agricultural Research & Education
D. None
