



Non-Teaching Recruitment **Question Paper**

Name of the Candidate	:	
Application No.	:	
Name of the Post	:	Junior Assistant
Exam Level	:	Screening Test (Level-1)
Date of Exam:	:	04.11.2023
Duration	:	120 Minutes
Total Marks	:	100

Instructions to the Candidates:

1. This Question paper contains **16** pages with **100** questions.
2. All questions are multiple choice type questions (MCQs) with four choices (a), (b), (c), (d).
3. Candidates are not allowed to carry any paper, notes, books, electronic gadgets including calculator, mobile phones etc. to the examination hall. Any candidate found using or in possession of such unauthorized materials or involved in copying or impersonation or adopting unfair means or behaviors will be disqualified and may be subjected to penal action.
4. There is only one correct answer. Choose the correct answer from among the four options given and mark the answer by darkening the appropriate bubble marked a, b, c, or d in the attached OMR.
5. Each question carries **ONE (1)** mark only. **1 mark** will be awarded for each correct answer; **0.25** mark will be deducted for each wrong answers. (Please also refer instructions given at the back side of OMR Sheet)
6. No separate sheet will be provided for rough work.

Mathematical Abilities

Q.1 If interest be compounded half-yearly, then find the compound interest on ₹8,000 at the rate of 20% per annum for 1 year.

- a) ₹1,675
- b) ₹1,690
- c) ₹1,685
- d) ₹1,680

Q.2 A basket contains 350 eggs. If 12% of the eggs are rotten, how many eggs are good enough to be sold?

- a) 408
- b) 310
- c) 308
- d) 410

Q.3 what is the volume of the largest sphere that can be carved out of a wooden cube of sides 21 cm ? ($\pi = \frac{22}{7}$)

- a) 3851 cm³
- b) 6858 cm³
- c) 4851 cm³
- d) 5821 cm³

Q.4 Find the value of the given expression.

$$\sqrt{8 + \sqrt{1681}}$$

- a) 5
- b) 6
- c) 4
- d) 7

Q.5 Find the value of given expression.

$$30 - [40 - \{56 - (25 - 13 - 12)\}]$$

- a) 38
- b) 22
- c) 14
- d) 46

Q.6 The ratio of the incomes of two employees is 7 : 4, and the ratio of their expenditures is 3 : 1. If each of them manages to save ₹4,800 per month, find the sum of their monthly incomes (in ₹).

- a) 21120
- b) 20120
- c) 21150
- d) 18150

Q.7 The product of the two numbers is 1500 and their HCF is 10. The number of such possible pairs is/are:

- a) 1
- b) 3
- c) 4
- d) 2

Q.8 Evaluate the following.

$$\sin 25^\circ \sin 65^\circ - \cos 25^\circ \cos 65^\circ.$$

- a) 4
- b) 1
- c) 0
- d) 40

Q.9 Find the average of the cubes of the first five natural numbers.

- a) 35
- b) 40
- c) 45
- d) 50

Q.10 40 litres of milk are kept in a container. 4 litres of milk were removed from this container and replaced with water. This procedure was performed two more times. How much milk does the container now hold?

- a) 30 litres
- b) 34.23 litres
- c) 29.16 litres
- d) 32 litres

Q.11 The arithmetic mean of the following data is _____.
23, 17, 20, 19, 21

- a) 20
- b) 19
- c) 23
- d) 21

Q.12 The number 5769116 is divisible by which of the following numbers?

- a) 4
- b) 5
- c) 12
- d) 8

Q.13 If $\frac{1}{x} + x = 4$, then find $\frac{1}{x^2} + x^2$.

- a) 14
- b) 5
- c) 7
- d) 15

Q.14 A can do a work in 4 days and B in 12 days. If they work on it together for 2 days, then the fraction of the work that will be left is :

- a) $\frac{1}{5}$
- b) $\frac{2}{5}$
- c) $\frac{2}{3}$
- d) $\frac{1}{3}$

Q.15 In a group of 32 students, the average weight was 18.5 Kg. When 4 students left the group, the average came down to 15.5 Kg. What was the average weight (in Kg) of those 4 students?

- a) 37.5
- b) 39.5
- c) 36.5
- d) 27.5

Q.16 A shopkeeper allows a discount of 10% on the printed price of his goods and thus gains 20%. What is the ratio between the cost price and the printed price of the item?

- a) 4:5
- b) 2:3
- c) 3:4
- d) 1:2

Q.17 Average of 03 nos. are 12. Two nos. are 13 and 15 what will be the third no.

- a) 6
- b) 8
- c) 16
- d) 20

Q.18 What is the difference between the total of first five even numbers and first five odd numbers;

- a) 2
- b) 5
- c) 3
- d) 4

Q.19 Which one of the following is not a prime number?

- a) 31
- b) 61
- c) 71
- d) 91

Q.20 What least number must be added to 1056, so that the sum is completely divisible by 23.

- a) 3
- b) 18
- c) 21
- d) None of these

Q.21 The largest 4 digit number exactly divisible by 88 is:

- a) 9944
- b) 9768
- c) 9988
- d) 8888

Q.22 Find the odd man out from the series
2,5,10,17,26,37,50,64

- a) 50
- b) 26
- c) 37
- d) 64

Q.23. 15 12 17 ? 10 8 27 6

- a) 3
- b) 17
- c) 21
- d) 19

Q.24 If radius of a sphere is decreased by 48%, then by what percent does its surface area decrease?

- a) 82.91%
- b) 72.96%
- c) 78.98%
- d) 86.26%

Q.25 A rectangular park is 120 m long and 104 m wide. A 1-m wide path runs along the boundary of the park, remaining completely inside the park area. Thus, the outside edges of the path run along the boundary wall of the park. The inside edges of the path are marked with a white line of negligible thickness. If it costs ₹2.50 to mark each metre with the white line, then how much would it cost (in ₹) to fully mark the inside edges of the path?

- a) 1090
- b) 1080
- c) 1120
- d) 1100

English Language and Comprehension

Q.26 Select the most appropriate ANTONYM of the underlined word.

The colossal building stood amidst the ruins bearing signs of Victorian architecture.

- a. Enormous
- b. Extraordinary
- c. Quaint
- d. Tiny

Q.27 Select the option that can be used as a one-word substitute for the given group of words.

Willful destruction

- a. Disaster
- b. Combustion
- c. Calamity
- d. Sabotage

Q.28 Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.

A. Tigers are the largest members of the cat family. They are found in many parts of Asia.

B. They mostly live in dark forests and sleep during the day. They come out for hunting pigs and deer by night.

C. It is assumed that, probably, around 3,000 tigers live in the wild. This species looks spectacular and grand and they are very graceful in their movements.

D. It is almost impossible for us to see them against a jungle background, especially when they are standing still, because of their striped coats. Unlike, most cats, the tiger likes bathing very much.

- a. ABCD
- b. CDBA
- c. ACBD
- d. ADBC

Q.29 Select the most appropriate option to fill in the blank.

A good leader should be ready to criticism.

- a. settle
- b. meet

- c. face
- d. carry

Q.30 Select the most appropriate meaning of the highlighted idiom.

The youth involved in the accident escaped by the skin of his teeth.

- a. Barely managed to escape
- b. Very arrogant
- c. Always taking calculated decisions
- d. Deficiency of funds

Q.31 Select the correct homonym from the given options to fill in the blank.

Which _____ does the minister take to reach the Assembly?

- a. root
- b. rot
- c. route
- d. riot

Q.32 The following sentence has been divided into parts. One of them may contain an error.

Select the part that contains the error from the given options. If you don't find any error, mark 'No error' as your answer.

He lived close to / the train station, / yet travelled by bus.

- a. yet travelled by bus
- b. No error
- c. He lived close to
- d. the train station

Q.33 Select the most appropriate option to fill in the blank.

Vishal is going to read the story _____.

- a. load
- b. allow
- c. aloud
- d. allowed

Q.34 The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

My father give up / smoking when / I was twelve / years old.

- a. My father give up
- b. smoking when
- c. I was twelve
- d. years old

Q.35 Select the INCORRECTLY spelt word.

- a. Descendant
- b. Deceased
- c. Decimate
- d. Desedent

Q.36 Select the option that expresses the given sentence in reported speech.

Raghav said to Meera, "Are you upset with me?"

- a. Raghav asked Meera if she was upset with her.
- b. Raghav asked Meera if she was upset with him.
- c. Raghav asked Meera if she was upset with me.
- d. Raghav asked Meera why she was upset with him.

Q.37 Select the option that expresses the given sentence in active voice.

The task has been completed.

- a. Someone has completed the task.
- b. Someone has been completing the task.
- c. Someone will be completing the task.
- d. Someone completes the task.

Q.38 Select the option that expresses the given sentence in passive voice.

We can buy books online from Amazon.

- a. Books were to be bought online from Amazon.
- b. Books are bought online from Amazon.
- c. Books can be bought online from Amazon.
- d. Books could be bought online from Amazon.

Q.39 Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.

Edward II is tragic than some other plays by the dramatist.

- a. as least tragic as
- b. No substitution required
- c. the most tragic
- d. less tragic than

Q.40 Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.

- a. Many fitness trainers encourage their clients to include these foods in their diet to build muscle.
- b. Power foods can be included in your everyday diet in a variety of ways.
- c. The secret to getting the most out of power foods is, of course, knowing how to cook them properly, buying seasonal produce and recognising your preferred flavour profile.
- d. Power foods are high in nutrients such as fibre, potassium and minerals.

- a. d, b, c, a
- b. d, a, b, c
- c. b, c, a, d
- d. a, d, b, c

Q.41 Select the most appropriate ANTONYM of the underlined word.

The new Principal of the school is stern, yet he understands the needs of his subordinates.

- a. Flippant
- b. Lenient
- c. Desolate
- d. Noxious

Q.42 Select the most appropriate option to fill in the blank.

The house they bought was _____.
spacious than their previous house.

- a. mostly
- b. most
- c. as
- d. more

Q.43 Select the most appropriate ANTONYM of the given word.

Innate

- a) Aquatic
- b) Natural

- c) Replete
- d) Learned

Q.44 Describe how you will tell your teacher that the windmill is being built by Master Yadav in active voice.

- a) Master Yadav been building the windmill.
- b) Master Yadav is building the windmill
- c) The windmill is be built by Master Yadav.
- d) Master Yadav build the windmill.

Q.45 Select the correct spelling for the INCORRECTLY spelt word in the given sentence.

Science has made progres in leaps and bounds over the years.

- a) sceince
- b) leap
- c) progress
- d) Bound

Q. 46 Select the most appropriate ANTONYM of the underlined word.
Managers who delegate reduce their work load.

- a) Appoint
- b) Nominate
- c) Depute
- d) Retain

Q.47 Select the most appropriate option to fill in the blank.
Radium is a white powder that _____ table salt.

- a) looks like
- b) will look like
- c) looking like
- d) look like

Q.48 Select the most appropriate meaning of the given idiom.
Blow something out of (all) proportion,

- a) Make things difficult for someone without reason
- b) Control the level of something in order to stop it increasing
- c) Behave as if something that has happened is much worse than it really is
- d) Leave someone at a time when they need you to stay and help them

Q.49 Select the option that can be used as a one-word substitute for the given group of words.

Having a consistency that does not easily yield to pressure.

- a) Close
- b) Ramrod
- c) Firm
- d) Substantial

Q.50 Select the most appropriate ANTONYM of the underlined word.

Most of the things in life are transient.

- a) Fleeting
- b) Toxic
- c) Boring
- d) Permanent

General Awareness

Q.51 Which part of the Constitution of India consists of the idea of a Welfare State?

- a. Directive Principles of State Policy
- b. Fundamental Duties
- c. Fundamental Rights
- d. Preamble

Q.52 Which of the following is constituted under Article 280 of the Constitution of India?

- a. Advocate General
- b. Central Vigilance Commission
- c. Finance Commission
- d. National Commission for Women

Q.53 The Act that is also known as 'Morley-Minto Reforms' is:

- a. Government of India Act, 1935
- b. Indian Councils Act, 1909
- c. Rowlatt Act, 1919
- d. Government of India Act, 1912

Q.54 Deficiency of which of the following vitamins causes excessive bleeding from wounds?

- a. Vitamin D
- b. Vitamin E
- c. Vitamin A
- d. Vitamin K

Q.55 Who is known as the father of the green revolution in the world?

- a) Norman Borlaug
- b) Linus Pauling
- c) Ralph Bunche
- d) MS Swaminathan

Q.56 Which of the following is NOT a Fundamental Right mentioned in the Indian Constitution?

- a) Right to equality
- b) Right to vote
- c) Right to freedom
- d) Right to freedom of religion

Q.57 The origin of 'Carnatic music' is related to which of the following Dynasties?

- a) Bahamani
- b) Pandaya
- c) Vijayanagar
- d) Chola

Q.58 _____ is also known as electronic disk.

- a) USB Sticks
- b) Network Storage Servers
- c) Solid State Drive
- d) USB Hard Drives

Q.59 _____ is a high-speed device used in CPU that is utilised to store data temporarily during processing

- a) Arithmetic and Logic Unit (ALU)
- b) Auxillary Memory
- c) Control Unit
- d) Registers

Q.60 Which of the following option of print setting is used to choose only specific pages in MS-Word 365?

- a) Print All Pages
- b) Print Current Pages
- c) Print Selection
- d) Custom Print

Q.61 _____ displays a list of utility configure the computer system and install software and hardware.

- a) Control Panel
- b) Help and Support
- c) Taskbar
- d) Run

Q.62 While _____, data transfers from the customers' machine to the server.

- a) Browsing
- b) Uploading
- c) Forwarding
- d) downloading

Q.63 Shading option in MS-Word 365 is used for _____.

- a) Changing the color around the selected text.
- b) Changing the color behind the selected text.
- c) Changing the color of the selected text.
- d) Making the text pop by highlighting it.

Q.64 How many medals India won in Asian Games 2023?

- a) 100
- b) 101
- c) 107
- d) 109

Q.65 Which country is not participating in ICC Men's Cricket World Cup -2023?

- a) Afganistan
- b) Netherland
- c) West Indies
- d) Bangladesh

Q.66 Kanchipuram temple in 7th AD was built by _____.

- a) Chola
- b) Pallava
- c) Cher
- d) Pandya

Q.67 Rippon building is the name of _____.

- a) Tamilnadu Secretarist
- b) Greater Chennai Municipal Corporation
- c) Museum
- d) Railway building

Q.68 New Education Policy adopted by the Govt. of India during the year:

- a) 2019
- b) 2020
- c) 2021
- d) 2022

Q.69 The International Day of Yoga has been celebrated every year on

- a) 5 June
- b) 8 March
- c) 21 June
- d) 28 February

Q.70 Ayushman Bharat Scheme of Govt. of India is related to:

- a) Education
- b) Sports
- c) Health
- d) None of these

Q.71 How many schedules are there in Indian Constitution?

- a) 8
- b) 10
- c) 12
- d) 9

Q.72 How many No. of states are there in India?

- a) 28
- b) 29
- c) 25
- d) None of these

Q.73 Summer Olympic Games, 2024 will be held in which city

- a) London
- b) Paris
- c) Tokyo
- d) Rio de Janeiro

Q.74 Largest State of India is _____.

- a. Uttar Pradesh
- b. Madhya Pradesh
- c. Rajasthan
- d. Maharashtra

Q.75 Which scientist suggested that the magnet must also exert an equal and opposite force on the current-carrying conductor?

- a. Michael Faraday
- b. Andre Marie Ampere
- c. Joseph Henry
- d. William Gilbert

Reasoning and General Intelligence

Q.76 In a certain code language, 'MARS' is coded as "51" and "STARS" is coded as "77".

How will 'MOON' be coded in that language?

- a) 57
- b) 55
- c) 54
- d) 56

Q.77 Select the number from among the given options that can replace the question mark (?) in the following series.

2, 4, 12, 48, 240, ?

- a) 480
- b) 720
- c) 1440
- d) 360

Q.78 Select the option that is related to the fifth letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster and the fourth letter-cluster is related to the third letter-cluster.

CROWN OYRVH: TABLE: FNEEY: UNREAL:?

- a) MCHVSA
- b) NOHVSA
- c) NGHUSB
- d) LAERNU

Q.79 Select the option that represents the correct order of the given words as they would appear in an English dictionary.

1. Cheetah
2. Chemical
3. Cheering
4. Cheese
5. Chestnut
6. Cheaper

- a) 1,6,1,3,4,2,5
- b) 1,6,3,4,1,2,5
- c) 1,6,3,4,1,5,2
- d) 1,2,3,1,4,6,5

Q.80 Select the option that is related to the fifth letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster and the fourth letter-cluster is related to the third letter-cluster.

ADOPT: DAOTP :: FINAL: IFNLA:: HUMOR: ?

- a) UOHMR
- b) UHMRO
- c) UHMOR
- d) UHOMR

Q.81 Select the option that is related to the fifth number in the same way as the second number is related to the first number and the fourth number is related to the third number.

284: 142: 568: 284: 1136:?

- a) 567
- b) 569
- c) 566
- d) 568

Q.82 A+ B' means 'A is the sister of B'.

'A-B' means 'A is the wife of B'.

'Ax B' means 'A is the brother of B'.

'A+B' means 'A is the father of B'.

If $L + M + N - O \div P \times Q$, then which of the following statements is NOT correct?

- a) L is the daughter of N
- b) O is the father of Q
- c) M is the sister of the wife of O.
- d) P is the son of N.

Q.83 Which two numbers and two signs should be interchanged in the following equation to make it correct?

$$14 \div 16 - 14 \times 9 \div 4 = 61$$

- a) 16 and 14, + and x
- b) 14 and 9, + and x
- c) 16 and 9, $\div$ and -
- d) 14 and 4, - and $\div$

Q.89 If + means $\times$, $\times$ means $\div$, and $\div$ means +, what will be the value of the following expression?

$$5 \div 5 + 5 - 10 \times 10 = ?$$

- a. 15
- b. 4
- c. 5
- d. 10

Q.90 Select the number from among the given options that can replace the question mark (?) in the following series.

58, 179, ?, 492, 688

- a. 300
- b. 269
- c. 313
- d. 323

Q.91 In a certain code language, 'PAINT' is written as '80' and 'DROP' is written as '59'. How will 'MARKET' be written in that language?

- a. 100
- b. 85
- c. 95
- d. 90

Q.92 A number has been denoted to each of the given letters. Select the option from the following four possible arrangements of these numbers that forms a meaningful word.

E = 1, Z = 2, L = 3, P = 4, U = 5, Z = 6

- a. 4,5,1,6,2,3
- b. 6,1,4,3,5,2
- c. 1,5,3,4,2,6
- d. 4,5,6,2,3,1

Q.93 Select the correct combination of mathematical signs to sequentially replace the * signs and balance the given equation.

$$21 * 3 * 36 * 2 * 23 = 68$$

- a. $\div - \times +$
- b. $\div \times + -$
- c. $+ \times - \div$
- d. $\times - \div +$

Q.94 Which of the following letter-clusters should replace # and % so that the pattern and relationship followed between the letter-cluster pair on the left side of :: is the same as that on the right side of ::?

: DKR :: PCL : %

- a. # = BNQ, % = NFM
- b. # = FHT, % = NFJ
- c. # = COQ, % = OGH
- d. # = BNP, % = NFJ

Q.95 All 32 students in a class are standing in a row facing north. Akash is 12th from the right end while Priya is 18th from the left end. How many people are standing between Akash and Priya?

- a. Two
- b. Four
- c. Three
- d. Five

* A School has four sections A,B,C,D of Class IX Students. The results half yearly and annual examinations are shown in the table given below: (for question 84 & 85)

Result	No. of Students			
	Section A	Section B	Section C	Section D
Students failed in both exams	28	23	17	27
Students failed in half yearly but passed in Annual Exams	14	12	8	13
Students failed in half yearly but Failed in Annual Exams	6	17	9	15
Students passed in both exams	64	55	46	76

Q.84 If the number of students passing an examination be considered a criteria for comparison of difficulty level of two examinations, which of the following statements is true in this content.

- a) Half yearly examinations were more difficult
- b) Annual examinations were more difficult
- c) Both the examinations had almost the same difficulty level.
- d) The two examinations cannot be compared for difficulty level.

Q.85 How many students are there in class IX in the school?

- a) 336
- b) 189
- c) 335
- d) 430

Q.86 'A # B' means 'A is the brother of B'.

'A @ B' means 'A is the daughter of B'.

'A & B' means 'A is the husband of B'.

'A % B' means 'A is the wife of B'.

If D @ N @ H & Y @ F % V, then how is N related to F?

- a. Son's wife
- b. Daughter
- c. Daughter's daughter
- d. Sister's daughter

Q.87 The second number in the given number-pairs is obtained by performing certain mathematical operation(s) on the first number. The same operation(s) is/are followed in all the number-pairs except one. Find that odd number-pair.

- a. 5 : 128
- b. 3 : 30
- c. 7 : 352
- d. 1 : 4

Q.88 Six friends A, B, C, D, E and F are standing in a circle facing the centre. B is between F and C, A is between E and D, and F is to the immediate left of D. Who is between A and F?

- a. D
- b. E
- c. C
- d. B

Q.96 Three Statements are given followed by four conclusions numbered 1, 2, 3, and 4. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically does NOT follow(s) from the statements.

Statements:

All P are G.

Some G are B.

All B are C.

Conclusions:

1) All P being C is a possibility.

2) Some P are B.

3) Some C are G.

4) Some G are P.

- a. Only 3 does not follow.
- b. Only 4 does not follow.
- c. Only 2 does not follow.
- d. Only 1 does not follow

Q.97 'A # B' means 'A is the brother of B'.

'A @ B' means 'A is the daughter of B'.

'A & B' means 'A is the husband of B'.

'A % B' means 'A is the wife of B'.

If W % D # G @ B & M @ I, then how is D related to M?

- a. Father's father
- b. Father
- c. Grandson
- d. Son

Q.98 In a certain language, the word CLOCK is written as 4 – 13 – 17 – 4 – 12. How will you write PHONE in the same language?

- a. 18 – 10 – 16 – 15 – 6
- b. 18 – 9 – 16 – 17 – 6
- c. 18 – 9 – 17 – 15 – 6
- d. 16 – 9 – 15 – 16 – 5

Q.99 In the following question, the statement is followed by two conclusions. Which of the two conclusions is/are true?

Statement: $M < K > I < J > H = G \leq F$

Conclusions: I. $H = F$

II. $J > G$

- a. Only conclusion I is true
- b. Both conclusions I and II are true
- c. Only conclusion II is true
- d. Neither conclusion I nor II is true

Q.100 Select the option that is related to the fifth number in the same way as the second number is related to the first number and the fourth number is related to the third number.

243 : 97 :: 72 : 6 : 576 : ?

- a) 14
- b) 24
- c) 12
- d) 18

BLANK PAGE