National Council of Science Museums
Kolkata - 700091

Aptitude Test for Recruitment to the post of 'Junior Stenographer'

Date : 7th December, 2021	Duration : 2 Hours
	Max. Marks : 100

Name :_____

Signature of the candidate : _____

Instructions :

(a) All questions are compulsory; (b) There is no negative marking; (c) For questions 'A' to 'H', tick mark the correct options in the question paper; (d) For questions 'I' and 'J', use separate sheet(s)

A. Select the correct one from the given options.   (20 × 1 marks)

1. Rearrange the jumbled letters in meaningful words to identify the word which is not a colour.

   (a) LTEOIV   (b) ENGRAO   (c) PELRUP   (d) REOWLF

2. Arrange the following in a logical order.
   (i) Open Text Book   (ii) Attend Assembly   (iii) Catch Bus
   (iv) Wear Uniform   (v) Get into Classroom

   (a) (iv), (ii), (iii), (v), (i)   (b) (iv), (iii), (v), (i), (ii)

   (c) (iv), (iii), (ii), (v), (i)   (d) (iv), (iii), (i), (v), (ii)

3. In the following question, one statement is given followed by two assumptions (I) and (II). You have to consider the given statement to be true even if it seems to be at variance from commonly known facts. You have to Tick the right option.

   Statement :

   He is too industrious to be poor.

   Assumptions :

   (I) Very industrious people also can be poor.
   (II) Very lazy people can also be rich.

   (a) Only (I) is implicit   (b) Only (II) is implicit

   (c) Both (I) and (II) are implicit   (d) Neither (I) nor (II) is implicit

4. Good conductor : Copper :: Bad conductor : ?

   (a) Iron   (b) Aluminium   (c) Wood   (d) Coal

5. Select the option which is different from others.

   (a) Diabetes   (b) Swine Flu   (c) Malaria   (d) Chicken Pox

6. If each vowel in the word SURROUND is changed to the previous letter of the English alphabet and each consonant is changed to the next letter in the English alphabet, which of the following will be the second from the right end in the new arrangement?

   (a) N   (b) O   (c) S   (d) T

7. In a certain code language JOURNAL is written as MRXUQDO. How will TRAINING be written in that code?

   (a) WUDHQLQJ   (b) WUDLQLQJ   (c) WUDKQLQJ   (d) WUCLQLQJ

8. In a code language 256 means 'You are good', 637 means 'We are bad' and 358 means 'Good and bad', then what will be the code of 'and'?

   (a) 8   (b) 2   (c) 3   (d) 5

9. If August 15th, 2012 falls on Thursday then June 11th, 2013 falls on which day ?

   (a) Monday   (b) Saturday   (c) Wednesday   (d) Tuesday

10. If P denotes '×', T denotes '–', M denotes '+' and B denotes '÷', then –

   12 P 6 M 15 T 16 B 4 = ?

   (a) 70   (b) 83   (c) 75   (d) 110

11. Arjun is Rajen's brother. Pankaj is Rajen's sister's only son. Pankaj married Arjun's daughter. What is the relation between Arjun and Preeti, who is Pankaj's daughter ?

   (a) Grandmother – Granddaughter   (b) Uncle – Niece

   (c) Father – Daughter   (d) Grandfather – Granddaughter

12. A mother's age is thrice that of her daughter's age. Six years ago, the mother's age was five times that of the daughter's age. What was the daughter's age 6 years ago ?

   (a) 36 years   (b) 6 years   (c) 12 years   (d) 30 years

13. From the given alternative words, select the word which **can be formed** using the letters of the given word :

   PRONUNCIATION

   (a) NATURAL   (b) PRINTING   (c) RATION   (d) PUNCTUATION

14. In the following question, find the missing number in the number pattern.

8	3	21
6	5	25
12	2	?

   (a) 24   (b) 19   (c) 22   (d) 20

15. Complete the series given below :

   10, 43, 175, _____, 2815

   (a) 703   (b) 1320   (c) 315   (d) 633

16. From the given alternatives, select the word which **cannot** be formed using the letters of the given word.

   ECCENTRICITY

   (a) TRINITY   (b) TRICKY   (c) ENTER   (d) CENTRE

17. Ankur is facing East. He turns 90° in the anticlockwise direction and then another 180° turn in the same direction, finally he turns 45° in the clockwise direction. In which direction is he facing now?

   (a) South-West   (b) East   (c) North-West   (d) South

18. The sum of the squares of two consecutive numbers is 1861. What are the two numbers?

   (a) 28 and 29   (b) 26 and 27   (c) 30 and 31   (d) 32 and 33

19. If Mita is taller than Geeta; Geeta is taller than Sita; Rita is taller than Mita; Lata is shorter than Sita; then who among them is the tallest ?

   (a) Mita   (b) Sita   (c) Geeta   (d) Rita

20. If A = 1, E = 5, then HEAR = ?

   (a) 38   (b) 32   (c) 31   (d) 30

B. Choose the correct answer from the given options.   (20 × 1 marks)

1. The population of a town is 15000. If the number of males increases by 8% and that of females by 10%, then the population would increase to 16300. Find the number of females in the town –

   (a) 4000   (b) 6000   (c) 3000   (d) 5000

2. The speed of the current is 5 km/hr. A motorboat goes 10 km upstream and back again to the starting point in 50 minutes. The speed, in km/hr, of the motorboat in still water is –

    (a) 20   (b) 26   (c) 25   (d) 28

3. A family has a man, his wife, their 4 sons and their wives. The family of every son also have 4 sons and one daughter each. Find out the total number of male members.

    (a) 5   (b) 20   (c) 21   (d) 9

4. When the price of rice decreases by 10%, a man could buy 1 kg more for Rs.270/-. Then, the original price of rice per kg is –

    (a) Rs.25/-   (b) Rs.30/-   (c) Rs.27/-   (d) Rs.32/-

5. An unknown quantity of Assam Tea priced at Rs.29/- per kg is mixed with 25 kg of Darjeeling Tea priced at Rs.32/- per kg. The mixture is sold at Rs.33/- per kg to gain 10%. Find the quantity of Assam Tea.

    (a) 50 kg   (b) 45 kg   (c) 33 kg   (d) 25 kg

6. The average of marks of 14 students calculated as 71. But it was later found that the marks of one student had been wrongly entered as 42 instead of 56 and of another as 74 instead of 32. The correct average is –

    (a) 67   (b) 68   (c) 71   (d) 69

7. The ratio of the present age of Manav to that of Gaurav is 3 : 11. Gaurav is 12 yr. younger that Rahul. Rahul's age after 7 yr. will be 85 yr. What is the present age of Manav's mother, who is 25 yr. older than Manav ?

    (a) 43 yr.   (b) 67 yr.   (c) 45 yr.   (d) 69 yr.

8. A sum of money placed at compound interest doubles itself in 5 yr. It will amount to 8 times itself at the same rate of interest in –

    (a) 7 yr.   (b) 10 yr.   (c) 15 yr.   (d) 20 yr.

9. A sells an article to B at a profit of 10%. B sells the article back to A at a loss of 10%. In this transaction –

    (a) A neither loses nor gains   (b) A makes a profit of 11%

    (c) A makes a profit of 20%   (d) B loses 20%

10. A salesman expects a gain of 13% on his cost price. If in a month his sale was Rs.7,91,000/-. What was his profit ?

    (a) Rs.88,300/-   (b) Rs.97,786/-   (c) Rs.85,659/-   (d) Rs.91,000/-

11. Two pipes can fill a cistern separately in 24 min. and 40 min., respectively. A waste pipe can drain off 30 Ltr./min. If all the three pipes are opened, the cistern fills in one hour. The capacity of the cistern is –

    (a) 800 Ltr.   (b) 400 Ltr.   (c) Rs.600 Ltr.   (d) Rs.500 Ltr.

12. If 6 men and 8 boys can do a piece of work in 10 days. 26 men and 48 boys can do the same work in 2 days. The time taken by 15 men and 20 boys to do the same type of work will be –

    (a) 5 days   (b) 4 days   (c) 6 days   (d) 7 days

13. A thief is a spotted by a policeman from a distance of 200 mtr. When the policeman starts chasing, the thief also starts running. If the speed of the thief be 16 km/hr. and that of the policeman be 20 km/hr., how far the thief will have run before he is overtaken ?

    (a) 800 mtr.   (b) 850 mtr.   (c) 700 mtr.   (d) 650 mtr.

14. In two types of stainless steel, the ratio of chromium and steel are 2 : 11 and 5 : 21, respectively. In what proportion should the two types be mixed, so that the ratio of chromium to steel in the mixed type become 7 : 32 ?

    (a) 3 : 4   (b) 1 : 3   (c) 2 : 3   (d) 1 : 2

15. The value of $3 \div 18$ of $3 \times 6 - 22 \times 6 \div 18 - 3 \div 2 + 10 - 3 \div 9$ of 3×9 is –

    (a) ⅓   (b) ½   (c) – ½   (d) – ⅓

16. Neetu spends 72% of her income. If her income increases by 20% and savings increase by 15%, then her expenditure increases by: (correct to 1 decimal place)

   (a) 20.8%   (b) 20.2%   (c) 19.8%   (d) 21.9%

17. A shopkeeper allows 18% discount on the marked price of an article and still makes a profit of 23%. If he gains Rs.18.40 on the sale of the article, then what is the marked price of the article?

   (a) Rs.140/-   (b) Rs.125/-   (c) Rs.120/-   (d) Rs.146/-

18. To cover a distance of 416 km, a train A takes 2⅔ hours more than train B. If the speed of train A is doubled, it would take 1⅓ hours less than B. What is the speed of train A?

   (a) 56 km/hr.   (b) 52 km/hr.   (c) 54 km/hr.   (d) 65 km/hr.

19. The average age of 120 students in a group is 13.56 years. 35% of the number of students is girls and the rest are boys. It the ratio of the average age of boys and girls is 6:5, then what is the average age of (in years) of the girls?

   (a) 12   (b) 11.6   (c) 10   (d) 14.4

20. The LCM of two number x and y is 204 times their HCF. If their HCF is 12 and the difference between both numbers is 60, then x + y = ?

   (a) 660   (b) 426   (c) 852   (d) 348

C. In the following questions, choose the word which completes each sentence logically. (5 × 1 marks)

1. All human beings must learn to live in _____ with nature.

   (a) kindness   (b) pleasure   (c) admiration   (d) harmony

2. The agenda for the meeting is _____ the notice.

   (a) forwarded in   (b) subscribed to   (c) enclosed with   (d) delivered as

3. The _____ of success is difficult to reach.

   (a) pick   (b) peek   (c) pique   (d) peak

4. Medical Science has _____ almost everything except death.

   (a) surrendered   (b) conquered   (c) controlled   (d) crushed

5. I assume _____ with me.

   (a) that everyone agrees   (b) everyone agreeing

   (c) everyone to agree   (d) that everyone to agree

D. In the following questions, out of the given four alternatives, select the one which is <u>opposite</u> to meaning of the given word.   (5 × 1 marks)

1. LIBERAL

   (a) Lenient   (b) Easy   (c) Strict   (d) Skillful

2. EQUILIBRIUM

   (a) Work out   (b) Disturb   (c) Imbalance   (d) Unevenness

3. MITIGATE

   (a) Appease   (b) Enhance   (c) Allay   (d) Relieve

4. CONFORMITY

   (a) Diversion   (b) Dilution   (c) Distraction   (d) Deviation

5. LACKADAISICAL

   (a) Enthusiastic   (b) Intelligent   (c) Classical   (d) Irresponsible

E. In the following questions, out of the given four alternatives, select the alternative which best expresses the meaning of the Idiom/Phrase. (5 × 1 marks)

1. A close shave

   (a) A narrow escape from danger   (b) Stubble

   (c) Very short hair   (d) Hairless skin

2. Within a stone's throw

   (a) Within a certain radius   (b) Very far off

   (c) At a short distance   (d) Within a definite distance

3. Pay through one's nose

   (a) Pay huge loans   (b) Pay an extremely high price

   (c) Pay a reasonable price   (d) Make a quick buck

4. Yeoman's service

   (a) Medical help   (b) Excellent work   (c) Social work   (d) Hard work

5. Turn a deaf ear

   (a) Pay no heed   (b) Go far away   (c) Listen carefully   (d) Turn one's ear away

F. In the following questions, out of the four alternatives, choose the one which can be substituted for the given words/sentences. (5 × 1 marks)

1. One who deliberately damages other people's property

   (a) Arsonist   (b) Destructor   (c) Vandal   (d) Vampire

2. Detailed plan of journey

   (a) Travelogue   (b) Travel-kit   (c) Schedule   (d) Itinerary

3. One who goes to settle in another country

   (a) Immigrant   (b) Alien   (c) Citizen   (d) Emigrant

4. Failing to discharge one's duty

   (a) Debacle   (b) Dereliction   (c) Determination   (d) Deterrent

5. The action of looking within or into one's own mind

   (a) Observation   (b) Examination   (c) Introspection   (d) Introvert

G. Do as directed. (5 × 1 marks)

1. **Select the alternative which best expresses the meaning of the given word.**

   Obnoxious

   (a) Depressing   (b) Disgusting   (c) Arrogant   (d) Filthy

2. **Choose the most appropriate   option to change the voice (active / passive) form of the given sentence.**

   Two children were shot dead by a psychopath during the California music festival.

   (a) Two children were being shot dead by a psychopath during the California music festival.

   (b) Two children are shot dead by a psychopath during the California music festival.

   (c) A psychopath during the California music festival was shooting dead two children.

   (d) A psychopath shot dead two children during the California music festival.

3. **Choose the most appropriate option to change the narration (direct / indirect) of the given sentence.**

   Her mother said, "We must have a party to celebrate your promotion."

   (a) Her mother said that they must have a party to celebrate her promotion.

   (b) Her mother said she had been planning a party for celebrating her promotion.

   (c) Her mother says that they should plan a party to celebrate her promotion.

   (d) Her mother told that they would be having a party to celebrate her promotion.

4. **Choose the most appropriate option to change the narration (direct / indirect) of the given sentence.**

   Nandita said to Sonali, "Will you help me in my project just now?"

   (a) Nandita told Sonali whether she will help her in her project just now.

   (b) Nandita asked Sonali if she would help her in her project just then.

   (c) Nandita questioned to Sonali that will you help me in my project just now.

   (d) Nandita asked to Sonali that will she help her in her work just now.

5. **Select the alternative which best expresses the meaning of the given word.**

   Audacious

   (a) Industrious   (b) Uncaring   (c) Boisterous   (d) Daring

H. In the following questions, you have a brief passage. In the passage, some of the words have been left out. First read the passage over and try to understand what it is about. Then fill in the blanks with the help of the alternatives given.   **(5 × 1 marks)**

A man can be physically __(1)__ within stone walls and iron bars. His freedom of movement and action may thus be __(2)__. But his mind and spirit will still remain free. His hopes and __(3)__. Ideals and ambitions will still remain with him no tyranny or oppression can __(4)__ the lover of liberty. The cruelty of the British only, increased the zeal and __(5)__ of the freedom fighters. No prison, no oppression can ever lower the invincible spirit of man.

1. (a) prevailed   (b) prevented   (c) confined   (d) limited

2. (a) rejected   (b) adjusted   (c) prevented   (d) restricted

3. (a) aspirations   (b) attributes   (c) achievements   (d) needs

4. (a) prevent   (b) prevail   (c) reduce   (d) intimidate

5. (a) mind   (b) determination   (c) want   (d) discrimination

I. Write a short essay (in about 200 words) on any one of the following topics :   **(20 marks)**

   (a) Azadi Ka Amrit Mahotsav

   (b) Woman Empowerment

   (c) Lessons learnt from COVID-19 pandemic

J. An NGO is working for the cause of children suffering from cancer and intends to arrange a visit of about 100 children to an amusement park. Write a letter (in about 100 words) on behalf of the NGO to the Director of the amusement park requesting for allowing free entry to visit the amusement park.   **(10 marks)**

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