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## CSIR-NIIST JUNIOR SECRETARIAT ASST – PYQ 2022

### English Language

Directions: In Question Nos. 1 to 5, some parts of the sentences have errors and some have none. Find out which part of the sentence has an error and blacken the circle (•) to the appropriate letter (A, B, C). If a sentence is free from error, blacken the circle (•) corresponding to (D)

1. Climate change refer to (a)  
long-term shifts in (b)  
temperatures and weather patterns. (c)  
No Error (d)
2. Greenhouse gases are (a)  
crucial to keeping our planet (b)  
at the suitable temperature for life. (c)  
No error (d)
3. Air hockey is a Pong-like table top  
sport (a)  
where two opposing players (b)  
tries to score goals against each  
other. (c)  
No error. (d)
4. Writer's block is the creative slump (a)  
That authors face when they (b)  
didn't know what to write. (c)  
No Error. (d)
5. The recommended amount of sleep (a)  
for an healthy adult (b)  
is at least seven hours. (c)  
No error. (d)

Directions: In Question Nos.6 to 10, there are four words out of which one is correctly spelt. Find the correctly spelt word and indicate it by blackening the appropriate circle (•)

6.
 

a. assistance	b. assisistence
c. ascistance	d. assistance
7.
 

a. substantiate	b. substantiate
c. substentiate	d. sinstamciate
- 8.

- |              |              |
|--------------|--------------|
| a. exonarate | b. exonarete |
| c. exonerate | d. exonerete |
9.
 

a. unfathomable	b. unfathomeble
c. unfathemable	d. ubfethomable
  10.
 

a. resuscitete	b. resascitate
c. resascitete	d. resuscitate

Directions: In Question No. 11 to 15, you have a passage with 5 questions following the passage. Read the passage carefully and choose the best answer the each question out of the four alternatives.

If you are rolling your eyes at what sounds like an over-the-top play, you might want to read the small print of your holiday flight booking a little more closely. EasyJet, Ryanair and Wizz Air now charge hefty fees, not just for luggage stowed in the hold, but for bags and wheelie cases that need to be stashed in the overhead lockers.

Only a bag small enough to fit under the seat in front of you is included with most seats. And – just in case you were planning on chancing it – yes, these rules are being enforced. Flying home from Bilbao airport recently, I witnessed first-hand the Ryanair ground crew slapping penalty charges on passengers with trolley cases they hadn't paid for, some of whom were caught out because they hadn't realised the rules had changed.

Meanwhile, this summer's airport chaos is adding an adrenaline spike of will-you-ever-see it again jeopardy to the financial cost of checking on your luggage. A shortage of baggage handlers has left passengers at Gatwick facing anxious waits for bags standard on planes because there are no staff to offload them. On a particularly bad day at Heathrow recently three-hour queues at the check in desks left some travellers with a stark choice

## CSIR-NIIST JUNIOR SECRETARIAT ASST – PYQ 2022

between missing their flight and leaving their suitcase behind.

11. How many airlines are mentioned in the first paragraph?
  - a. 1      b. 4
  - c. 3      d. None of the above
12. Airlines are charging massive fees for
  - a. Bags
  - b. Wheelie cases
  - c. Luggage stowed in the hold
  - d. All of the above
13. Why did the airline companies charge penalty on the passengers using trollies?
  - a. Passengers thought that the trollies were free of cost
  - b. Passengers were aware that the trollies were free of cost
  - c. Staff off Ryanair were not aware that the trollies were free of cost
  - d. None of the above
14. What message does the writer give in the passage?
  - a. Always keep minimum baggage while travelling
  - b. Always keep the sufficient quantity of dresses
  - c. Always travel with no luggage
  - d. None of the above
15. Heathrow airport recently witnessed three-hour queue at the check-in desks left some travellers with choices
  - (i) missing their connection flight
  - (ii) travelling in the connection flight
  - (iii) leaving their baggage behind
  - (iv) collecting their baggage in the airport
  - a. (i) and (iii)      b. (i) and (ii)
  - c. (ii) and (iii)      d. None of the above

Directions: In Question Nos. 16 to 20, choose the word opposite in meaning to the given word and indicate it by blackening the circle (•) to the appropriate letter (A, B, C or D) in the answer sheet.

16. Unrivalled
  - a. unsurpassed      b. incompatible
  - c. supreme      d. inferior
17. Despise
  - a. detest      b. loathe
  - c. admire      d. execrate
18. Predicament
  - a. plight      b. mess
  - c. boon      d. muddle
19. Stumble
  - a. walk      b. bumble
  - c. wobble      d. swing
20. Definite
  - a. certain      b. obscure
  - c. clear      d. distinct

Directions: In question nos. 21 to 25 four alternatives are suggested for each question. Choose the correct alternative out of the four and indicate it by blackening the circle (•) to the appropriate letter (A, B, C or D) in the answer sheet.

21. A figure of speech comparing two unlike things that is often introduced by like or as is called \_\_\_\_\_.
  - a. Alliteration      b. Metaphor
  - c. Simile      d. Personification
22. Which poetic form doesn't use any strict meter or rhyme scheme?
  - a. Blank verse      b. Free verse
  - c. Lyric poem      d. Sonnet
23. Which among the following is the great book of poems written by noble laureate and great Rabindranath Tagore?
  - a. The Waste Land
  - b. How Some Hindus Find Their Personal Gods
  - c. Untouchable
  - d. Gitanjali
24. Who is the writer of the famous play "Julius Caesar"?
  - a. William Shakespeare
  - b. Oscar Wilde



## CSIR-NIIST JUNIOR SECRETARIAT ASST – PYQ 2022

- c. Ben Johnson  
d. Agatha Christie
25. Who among the following is known as 'the poet of senses' in English Literature?
- a. Lord Byron  
b. Percy Bysshe Shelley  
c. John Keats  
d. William Wordsworth

Directions: In question nos. 26 to 30 sentences are given with blank to be filled in with an appropriate word(s). Choose the correct alternative out of the four and out of the four and indicate it by blackening the circle (•) to the appropriate letter (A, B, C or D) in the answer sheet.

26. What would you do if you \_\_\_\_\_ offered a job in America?
- a. was                      b. were  
c. will be                d. are
27. Usain Bolt made another attempt \_\_\_\_\_ the world record.
- a. for                      b. against  
c. at                        d. to
28. My grandfather was overjoyed when he \_\_\_\_\_ his old friend after 30 years.
- a. ran in                    b. ran to  
c. ran on                   d. ran into
29. Public is looking forward \_\_\_\_\_ authentic information from government.
- a. to hearing              b. for hearing  
c. about hearing        d. for hear
30. A really sophisticated person will never be \_\_\_\_\_ enough to think that he is always right.
- a. Polite                    b. Naïve  
c. Reverent                d. Eloquent

Directions: in question nos. 31 to 35, you have a poem followed by 5 questions. Read the poem carefully and choose the best answer to each question out of the four alternatives and indicate it by blackening the circle (•) to the

appropriate letter (A, B, C or D) in the answer sheet.

The world is too much with us; late and soon,  
Getting and spending, we lay waste our powers;-

Little we see in Nature that is ours;  
We have given our hearts away, a sordid boon!  
The winds that will be howling at all hours,  
And are up-gathered now like sleeping flowers;  
For this, for everything, we are out of tune;  
It moves us not. Great God! I'd rather be  
A Pagan suckled in a creed outworn;  
So might I, standing on this pleasant lea,  
Have glimpses that would make me less forlorn;

Have sight of Proteus rising from the sea;  
Or hear old Triton blow his wreathed horn.

31. What is the meaning of the phrase "The world is too much with us"?
- a. people are obsessed with money and manmade objects  
b. People have become too concerned about nature  
c. Humans are too attached to nature  
d. People are losing harmony with nature
32. According to the poet, with what are we 'out of tune'?
- a. Humanity                      b. Our goals  
c. Nature                        d. Sea and wind
33. Who wishes to remain as a pagan in the poem?
- a. Nature                        b. Common man  
c. God Proteus                d. Poet himself
34. What is the rhymes scheme of the poem?
- a. abba abba cdc cdc  
b. aba abba cde cde  
c. aabb aabb cdc cdc  
d. aabb aabb cde cde
35. Find a word from the poem which means the same as 'principle or belief'.
- a. Sordid                        b. Forlorn  
c. Boon                         d. Creed

## CSIR-NIIST JUNIOR SECRETARIAT ASST – PYQ 2022

Directions: In question nos. 36 to 40 out of the four alternatives, choose the one which best expresses the meaning of the given word.

36. Indolent  
a. Kind                      b. Idle  
c. Lavish                  d. Repulsive
37. Deplorable  
a. amiable                  b. durable  
c. lamentable              d. lovable
38. Disdain  
a. obligation              b. sympathy  
c. praiseworthy           d. contempt
39. Resentment  
a. wonder                  b. anger  
c. hearty                   d. happy
40. Exculpate  
a. clear                      b. produce  
c. read                      d. work

Directions: In question nos. 41 to 45, All in the blanks carefully by choosing the best answer to each question out of the four alternatives and indicate is by balancing the circle (•) to the appropriate letter (A, B, C or D) in the answer.

41. The rain came \_\_\_\_\_ than usual this year.  
a. Latest                      b. Later  
c. Late                        d. Last
42. The school is \_\_\_\_\_ down the road.  
a. Father                      b. Further  
c. Far                         d. Farthest
43. Let us start \_\_\_\_\_ it is too late.  
a. As                          b. Though  
c. Before                      d. While
44. He disappeared into the crowd \_\_\_\_\_ the police should catch him.  
a. Unless                      b. Because  
c. So                          d. Lest
45. The effort won't carry you \_\_\_\_\_ your difficulties.  
a. From                      b. Across  
c. on                          d. With

Directions: In question nos. 46 to 50, find the alternative for the underlined idiom/phrase in the sentence by choosing the best answer to each questions out of the four alternatives and indicate it by blackening the circle (•) to the appropriate letter (A, B, C and D) in the answer.

46. By and large, the results of the examination are quite encouraging.  
a. make every effort  
b. on the whole  
c. a worthless attempt  
d. surprisingly
47. He is always at logger heads with the other members of the family.  
a. Tolerate  
b. To be done without more delay  
c. Stop doing something  
d. In disagreement
48. He earned many enemies because of his habit of calling a spade a spade.  
a. To please somebody  
b. To be greatly perplexed  
c. Say exactly what one thinks without hiding  
d. To sense more than what the actual words spoken
49. Acting on the spur of the moment, he said that he would give up his job if necessary.  
a. Stop doing something  
b. Without hesitating  
c. Incite a lot of anger  
d. To please somebody
50. We could not follow his line of argument which was without rhyme or reason  
a. Quite meaningless  
b. A worthless attempt  
c. In order to escape from  
d. A foolish attempt

### Reasoning

## CSIR-NIIST JUNIOR SECRETARIAT ASST – PYQ 2022

51. In a certain code language HAND is written SZMW then what will be the code of MILK?

- a. ORNP                      b. PNRO  
c. NROP                      d. RNOP

52. If STRONG is written as ROTNSG then how NAGPUR would be written in the same code?

- a. GPAUNR                      b. PGUARN  
c. PGAURN                      d. GPUANR

53. How many such pairs of letters are there in the word INSTRUCTION which have as many letters between them in the word as in the English alphabets?

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

54. How many combinations of two digit numbers having 8 can be made from the following numbers?

8, 5, 2, 1, 7, 6

- a. 9                              b. 10  
c. 11                            d. 12

55. Four of the following five are alike in a certain way and form a group. Which one of these does not belong to that group?

- a. canoe                      b. tug  
c. dingy                      d. ship

Each of the following questions consists of four figures as the problem figure followed by four figures marked (A), (B), (C) and (D) as the answer figures. Select the correct answer figure which will continue the series as established by the problem figures (Q. No. 56 to 60)

56. Problem Figures

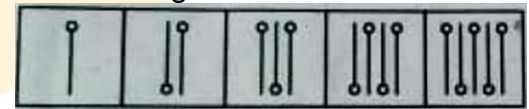


Answer Figures

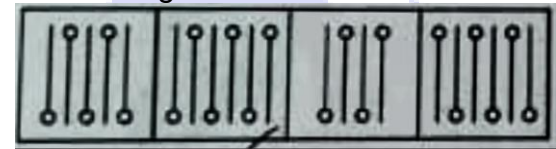


- a. A    b. B    c. C    d. D

57. Problem Figures

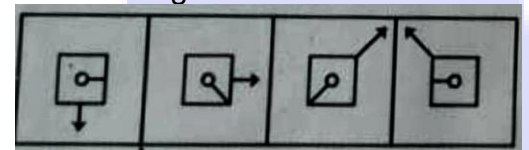


Answer Figure

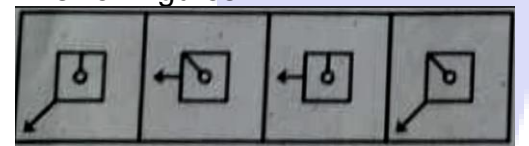


- a. A    b. B    c. C    d. D

58. Problem Figures



Answer Figures



- a. A    b. B    c. C    d. D

59. Problem Figures



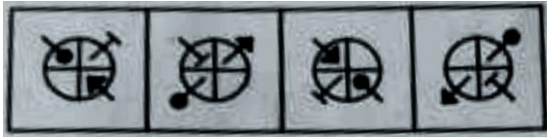
Answer Figures



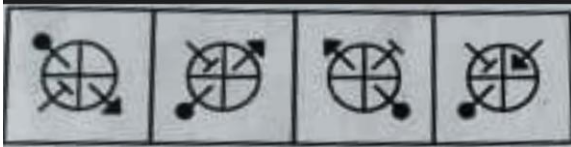
- a. A    b. B    c. C    d. D

60. Problem Figures

## CSIR-NIIST JUNIOR SECRETARIAT ASST – PYQ 2022



Answer Figures



a. A    b. B    c. C    d. D

Read the information given below and answer the questions (Q. No. 61 to 66)

- (i) In a family of six persons A, B, C, D, E and F, there are two married couples.
- (ii) D is grandmother of A and mother of B
- (iii) C is wife of B and mother of F
- (iv) F is the granddaughter of E

61. What is C to A?  
a. Daughter    b. Grandmother  
c. Mother    d. Husband
62. How many male members are there in the family?  
a. two    b. three  
c. four    d. cannot be determined
63. Who among the following is one of the couples?  
a. CD    b. DE  
c. EB    d. DC
64. Which of the following is true?  
a. A is the sister of F  
b. A is the brother of F  
c. Two grandsons  
d. None of the above
65. Pointing towards Rita, Nikhil said "I am the only son of her mother's son". How is Rita related to Nikhil?  
a. Aunt    b. Niece  
c. Mother    d. Cousin
66. Introducing Reena, Monika said, "She is the only daughter of my father's only

daughter". How is Monika related to Reena?

- a. Aunt    b. Niece
- c. Cousin    d. Mother

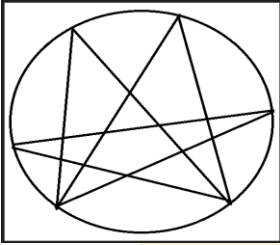
In each of the questions 67 to 74 below are given two statements followed by two conclusions. Read the conclusions and decide which of the given conclusions logically follow the statements. Give answer

- a. If only conclusion I follows  
b. If only conclusion II follows  
c. If either conclusion I or II follows  
d. If neither conclusion I nor II follows
67. Statements  
1. Some books are pens  
2. Some pens are erasers  
Conclusions  
I. All books are erasers  
II. Some erasers are books
68. Statements  
1. All jungles are tigers  
2. Some tigers are horses  
Conclusions  
I. Some horses are jungles  
II. No horse is a jungle
69. Statements  
1. Some dreams are nights  
2. Some nights are days  
Conclusions  
I. All days are either nights or dreams  
II. Some days are nights
70. Statements  
1. Some desks are caps  
2. No cap is red  
Conclusions  
I. Some caps are desks  
II. No desk is red
71. If P denotes 'multiplied by'  
T denotes 'subtracted from'  
M denotes 'added to'  
B denotes 'divided by'  
Then,  $28 \text{ B } 7 \text{ P } 8 \text{ T } 6 \text{ M } 4$

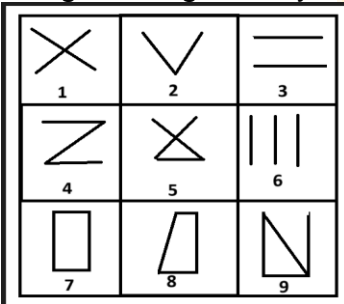


## CSIR-NIIST JUNIOR SECRETARIAT ASST – PYQ 2022

- a.  $(-3/2)$       b. 30  
c. 32      d. 34
72. Find the number of triangles in the given figure



- a. 22      b. 24  
c. 26      d. 28
73. Group the given figures into three classes using each figure only once.



- a. 1,2,3; 4,5,6; 7,8,9  
b. 1,3,5; 2,4,6; 7,8,9  
c. 1,5,9; 3,6,2; 4,7,8  
d. 1,9,7; 2,8,5; 3,4,6
74. If A is in the north of B and C is in the west of B. In what direction is A with respect to C?
- a. South      b. East  
c. South-West      d. North-East

In Questions 75 and 76 a question is followed by three statements. How many of these statements are required to answer the questions?

75. Question: Who among Siddhartha, Nikunj, Vipul and Mukul is the youngest?  
Statements:  
I. Vipul is younger than Mukul but older than Siddhartha and Nikunj \_\_\_\_\_

- II. Mukul is the oldest  
III. Siddhartha is older than Nikunj  
a. Only I  
b. Only I and II  
c. Only II and III  
d. Only I and III

76. Five persons – A, B, C, D and E are sitting in a row.

Question: Who is sitting in the middle?  
Statements:

- I. B is between E and C  
II. B is to the right of E  
III. D is between A and E  
a. I and II      b. II and III  
c. I and III      d. I, II and III

Question No. 77 to 83 are to be answered based on the passage given below

Five cities A, B, C, D and E are famous for their lovely garden, fancy jewellery, educational institute, blue pottery and Scents but not in the same order.

A and C are neither educational Institutes nor have gardens.

B and E are not famous for jewellery or pottery. Scents and jewellery have nothing to do with A. D and E are not famous for garden and jewellery

D is not famous for education institutions.

77. Which of the following city is famous for gardens?

- a. A      b. C  
c. D      d. B

78. Blue pottery is available in which of the following cities.

- a. A      b. C  
c. E      d. B

79. City E is famous for which of the following?

- a. Jewellery  
b. Educational Institutions  
c. Blue pottery  
d. Scent



## CSIR-NIIST JUNIOR SECRETARIAT ASST – PYQ 2022

80. Reaching the place of meeting 20 minutes before 8.50 hrs, Sumit found himself thirty five minutes earlier than the man who earns 40 minutes late. What was the scheduled time of the meeting?

- a. 8.00                      b. 8.05  
c. 8.10                      d. 8.20

81. Which term comes next in the sequence AC, FH, KM, PR, \_\_\_\_\_

- a. UW                      b. VW  
c. UX                      d. TV

82. Find the term which does not fit into the series.

- ICV, 5FU, 91T, 15LS, 17OR  
a. 5FU                      b. 15LS  
c. 91T                      d. 17OR

83. Arrange the following words in the order in which they appear in English dictionary.

1. Gemlike    2. Geminat    3. Gemmier  
4. Geminal    5. Gemini  
a. 3,5,4,1,2                      b. 4,5,2,1,3  
c. 4,3,2,1,5                      d. 4,2,5,1,3

**Directions (Q. No. 84 to 85):** In each of the following some of the letters are missing which are given in that order as one of the alternatives below it. Choose the correct alternative.

84. \_\_\_\_\_ bca \_\_\_\_\_ cca \_\_\_\_\_ ca  
\_\_\_\_\_ b \_\_\_\_\_ c

- a. aaaaa                      b. bbbab  
c. baab                      d. babc

85. ccbab \_\_\_\_\_ caa \_\_\_\_\_ bccc \_\_\_\_\_  
a \_\_\_\_\_

- a. babb                      b. bbba  
c. baab                      d. babc

There is a certain relation between two gives words on one side of :: and one word is given on another side of :: Find the word having same relation with thisword on the given pair has (Q. No.86 to 90)

86. Ornament : Gold : Needle : \_\_\_\_\_  
a. Stich                      b. Prick

c. Steel                      d. Thread

87. Coherent : Consistent :: Irate : \_\_\_\_\_

- a. Angry                      b. Unreasonable  
c. Unhappy                      d. Irritated

88. Enough : Excess :: Sufficiency : \_\_\_\_\_

- a. Adequacy                      b. Surplus  
c. Competency                      d. Import

89. Interview : Job :: Armistice : \_\_\_\_\_

- a. War                      b. Treaty  
c. Amnesty                      d. Agreement

90. Fog : Visibility :: AIDS : \_\_\_\_\_

- a. Health                      b. Resistance  
c. Virus                      d. Death

Complete the given series by finding the missing term(s) (Q. No. 91 to 129)

91. 6, 11, 21, 36, 56, \_\_\_\_\_

- a. 42                      b. 51  
c. 81                      d. 91

92. 15, 16, 19, 24, 31 \_\_\_\_\_

- a. 45                      b. 50  
c. 40                      d. 38

93. 0, 6, 24, 60, 120, 210, \_\_\_\_\_

- a. 240                      b. 290  
c. 336                      d. 504

94. Simplify (- 17 – 94 – 22 – 39 + 627) = ?

- a. 454                      b. 455  
c. 458                      d. 451

95.  $3.36 \times 2.5 + (2.4)^2 =$  \_\_\_\_\_.

- a. 14.016                      b. 14.16  
c. 15.26                      d. 15.16

96. 68% of 595 – 43% of 372 = \_\_\_\_\_.

- a. 244.64                      b. 232.84  
c. 278.44                      d. 260.24

97.  $\frac{1}{5}^{\text{th}}$  of  $\frac{3}{4}^{\text{th}}$   $\frac{2}{5}^{\text{th}}$  of 6000 is

- a. 360                      b. 330  
c. 370                      d. 350

98. A decimal number has 16 decimal places. The number of decimal places in the square root of this number will be

- a. 2                      b. 4  
c. 8                      d. 16

## CSIR-NIIST JUNIOR SECRETARIAT ASST – PYQ 2022

99. How many numbers less than 10,000 would be there which are divisible by 21, 35 and 63?
- a. 32                      b. 34  
c. 30                      d. 31
100. The average of 4 consecutive even numbers P, Q, R and S respectively is 55. What is the product of Q and S?
- a. 3123                      b. 3135  
c. 3132                      d. 3125
101. If  $A : B = 3:4$ ,  $B:C = 5:7$  and  $C:D = 8:9$ . Then A:D is equal to
- a. 3:7                      b. 7:3  
c. 21:10                      d. 10:21
102. Komal walks 10 km towards North. From there he walks 6 km towards South. He walks 3 km towards East. How far and in which direction is he with reference to his starting point.
- a. 5 km West                      b. 7 km West  
c. 7 km East                      d. 5 km North East
103. A walks 10 m in front and 10 m to the right. Then every time turning towards his left he walks 5 m, 15 m, 15 m respectively. How far is he now from his starting point?
- a. 5 m                      b. 10 m  
c. 15 m                      d. 20 m
104. In a class among the passed students Amuda is twenty second from the top and Rupesh who is 5 ranks below. Amuda is thirty fourth from the bottom. All the students from the class have appeared for the exam. If the ratio of students who passed in the exam to those who failed is 4:1 in that class, how many students are there in the class?
- a. 60                      b. 75  
c. 90                      d. Data insufficient
105. In a family, the father took  $\frac{1}{4}$  of the cake and he had 3 times as much of the other members had. The total number of family members is
- a. 3                      b. 7  
c. 10                      d. 12
106. When Rahul was born his father was 32 years older than his brother and this mother was 25 years older than his sister. If Rahul's brother is 6 years older than him and his mother is 3 years younger than his father how old was born?
- a. 7 years                      b. 10 years  
c. 14 years                      d. 19 years
107. A printer numbers the pages of a book starting with 1 and uses 3189 digits in all. How many pages does the book have?
- a. 1000                      b. 1074  
c. 1075                      d. 1080
108. A wall is 4 m high, At what distance from the base should ladder 4.2 m long be placed so that it just reaches the wall.
- a. 1.44 m                      b. 1.54 m  
c. 1.28 m                      d. 1.96 m
109. If the three angles of a triangle are in the ratio 3:4:5 find the least angle in Radians
- a.  $\pi/2$                       b.  $\pi/8$   
c.  $\pi/4$                       d.  $\pi/6$
110. A some of money at simple interest amounts to Rs. 815 in 3 years and to Rs. 854 in 4 years. The sum is
- a. 650                      b. 690  
c. 698                      d. 700
111. Two trains each 220 m long travelling at 45 km/h respectively in opposite directions. In what time would they cross each other?
- a. 16 Sec.                      b. 18 Sec.  
c. 99 Sec.                      d. 67 Sec.
112. A and B can do a piece of work in 12 days. B and C in 15 days C and A in 20 days. In what time C alone can complete this work?
- a. 20 days                      b. 47 days

## CSIR-NIIST JUNIOR SECRETARIAT ASST – PYQ 2022

- c. 10 days                      d. 60 days
113. If 3 men and 4 women can plough a field in 43 days, how long will 7 men and 5 women take to plough it?
- a. 10 days                      b. 11 days  
c. 9 days                      d. 12 days
114. The ratio of Karthik's age to the age of his father is 3:8. The difference of their age is 35 years. The ratio of their ages after 4 years will be
- a. 7:12                      b. 5:12  
c. 38:43                      d. 42:47
115. A, B and C contract a work for Rs. 1,100. A and B together are to do  $\frac{7}{11}$  of the work. C's share is
- a. 366.66                      b. 400  
c. 600                      d. 800
116. A dealer professing to sell his goods at cost price, uses a 900 g weight for 1kg. His gain percent is
- a. 9                      b. 11  
c.  $11\frac{1}{3}$                       d.  $11\frac{1}{9}$
117. The square of the first number is 9 times the second number and the ratio between the first number and the second number is 3:4 respectively, then will be the difference between two two-digit numbers.
- a. 2                      b. 4  
c. 6                      d. 8
118. The average weight of 8 persons increases by 2.5 kg when a new person comes in place of one of them weighting 65 kg. What might be the weight of the new person?
- a. 60 kg                      b. 85 kg  
c. 76.5 kg                      d. date inadequate
119. The total cost of 12 mangoes and 10 apples is Rs. 76 and the total cost of 8 mangoes and 10 apples is Rs. 64. What is the cost of one mango and one apple?
- a. Rs. 5                      b. Rs. 7                      c. Rs. 8                      d. Rs. 10
120. There are 408 boys and 312 girls in a school which are to be divided into equal sections of either boys or girls alone. Find the total number of sections then formed
- a. 31                      b. 32  
c. 35                      d. 30
121. The present population of a city is 180,000. If it increases at the rate of 10% per annum, its population after 2 years, will be
- a. 2078000                      b. 227800  
c. 217800                      d. 237800
122. A trader has 50g pulses. Part of which he sells at 8% and the rest at 18% profit. He gains 14% on the whole. What is the quantity sold at 18% profit?
- a. 30 kg                      b. 35 kg  
c. 40 kg                      d. 45 kg
123. At 12% simple interest per annum Rs. 1360.65 will double itself in
- a.  $12\frac{1}{2}$  years                      b.  $11\frac{1}{3}$  years  
c.  $10\frac{1}{4}$  years                      d.  $8\frac{1}{3}$  years
124. Find compound interest on Rs. 7500 at 4% per annum for 2 years, compounded annually.
- a. 612                      b. 600  
c. 712                      d. 750
125. Amit bought a mobile phone for Rs. 18,000 and a mixer for Rs. 4,000. He sold both items together for Rs. 26,400. How much percent profit did he make?
- a. 15%                      b. 20%  
c.  $16\frac{2}{3}$ %                      d.  $18\frac{1}{3}$ %
126. A mixture contains spirit and water in the ratio 5:2. If it contains 30 litres more spirit than water the quantity of spirit in the mixture.
- a. 50 liters                      b. 70 liters  
c. 20 liters                      d. 30 liters

## CSIR-NIIST JUNIOR SECRETARIAT ASST – PYQ 2022

127. The speed of a boat in downstream is 12km/h and in upstream it is 10 km/h. What is the speed in still water?

- a. 20 km/h                      b. 11 km/h  
c. 10 km/h                      d. 15 km/h

128. Two numbers are respectively 20% and 50% more than a third number. The ratio of the two numbers is:

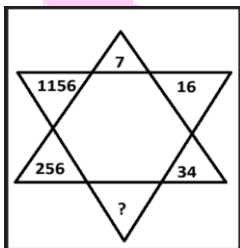
- a. 2:5                              b. 3:5  
c. 4:5                              d. 5:4

129. The positions of the first and fifth digits are interchanged in the number 53146872. Similarly the positions of second and sixth digits are interchanged and so on. Which of the following will be the fifth digit from right end after rearrangement.

- a. 2                                  b. 4  
c. 6                                  d. 1

Find the missing character in each of the following (Q. No. 130-132)

130.



- a. 72                                  b. 49  
c. 68                                  d. 66

131.

	154	
14	221	196
	?	

- a. 11                                  b. 13  
c. 15                                  d. 17

132.

0	7
?	26

- a. 45                                  b. 50  
c. 60                                  d. 63

In a playground Ram, Syam, Nithin, Athul and Prem are standing as describe below facing north (Q. No. 133-134)

Syam is 40m to the right of Athul.

Ram is 60m to the south of Syam.

Nithin is 25m to the west of Athul.

Prem is 90m to then north of Ram.

133. Who is the north east of the person who is the left of System?

- a. Ram                                  b. Nithin  
c. Athul                                  d. None of these

134. If a boy walks from Nithin, meets Athul followed by Syam, Ram and then to Prem, how many meters has he walked if he has travelled the straight distance all through?

- a. 155 m                                  b. 185 m  
c. 215 m                                  d. 245 m

Out of 1,500 girls studying in a school 20% learn only stitching. One-tenth of the total number of girls learn only pottery and stitching, 12% of the total number of girls learn only farming and 32% learn only pottery one-fifteenth of the total number of girls learn only pottery and farming and the remaining learn all the three-stitching, pottery, farming together (Q. No. 135-139)

135. How many girls learn only one of the skills?

- a. 720                                  b. 840  
c. 960                                  d. 880

136. How many girls learn farming?

- a. 180                                  b. 160  
c. 155                                  d. 185



## CSIR-NIIST JUNIOR SECRETARIAT ASST – PYQ 2022

137. How many girls do not learn stitching?

- a. 680                      b. 720  
c. 650                      d. None of the above

138. What is the total number of girls who learn pottery?

- a. 985                      b. 1020  
c. 1135                      d. 998

139. The number of girls learning all the three i.e., stitching, pottery and farming together form approximately, what percentage of the total number of girls in the school

- a. 11%                      b. 23%  
c. 9%                      d. None of the above

Study the following table and answer the questions given below. (Q. No. 140-144)

**Export of Electronic Goods from Chile (in Rs. Crore)**

Year	Total Export	Electronic goods
2001	5143	552
2002	5404	624
2003	5426	717
2004	5999	653

140. Approximately what percentage of total exports were, electronic, goods in 2003

- a. 13%                      b. 19%  
c. 21%                      d. 23%

141. The fall in electronic goods exports in 2004 from 2003 was near

- a. 20%                      b. 15%  
c. 9%                      d. 12%

142. If electronic goods are not 'exported' in the year 2002, then what are the total exports of that year

- a. 4770                      b. 4780  
c. 4790                      d. 4760

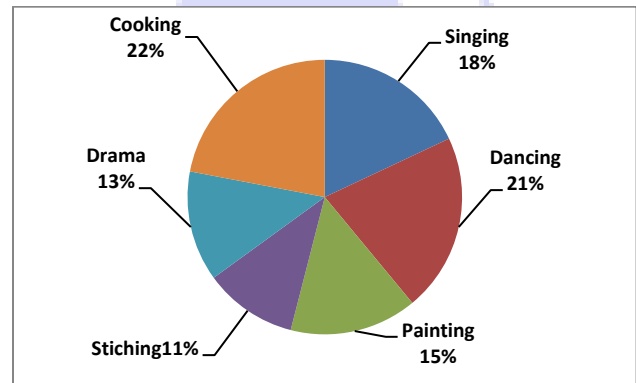
143. Percentage growth of electronic goods export in the period 2002 to 2003 exceeded the percentage growth of total exports over the same period approximately by

- a. 13.5                      b. 12.5  
c. 15.5                      d. None of these

144. Over the 4 year period from 2001 to 2004 the electronic goods exports rose nearly by

- a. 16.3%                      b. 15.3%  
c. 14.3%                      d. 18.3%

Percentage of students enrolled in different hobby classes in a school is shown below. Total number of students is 3,600 (Q. No. 145-150)



145. How many students are enrolled in painting Classes?

- a. 450                      b. 520  
c. 540                      d. 550

146. What is the total number of students enrolled in Stiching and Drama Classes together?

- a. 648                      b. 684  
c. 846                      d. 864

147. Number of students enrolled in Painting Classes are approximately what percent of those enrolled in Singing Classes?

- a. 72                      b. 78  
c. 83                      d. 92

148. What is the ratio of number of students enrolled in Singing and Dancing Classes together to those enrolled in Drama Classes respectively?

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

## CSIR-NIIST JUNIOR SECRETARIAT ASST – PYQ 2022

149. You are a social worker. On visiting an orphanage there is one child who is not ready to let you go away?

- You ignore the child because you have to attend your own child
- You decide to visit him every Sunday
- You talk to the authorities and arrange someone who can adopt him
- It is not a serious concern for you

150. If you are a manager and one of your employees is not working according to the need. As a manager you would

- Fire him
- Give him two weeks to improve
- Try to develop his abilities in another job
- Talk to him and find the solution

### General Awareness

151. Name the first person to present the National flag of independent India to Dr. Rajendra Prasad in the parliament on mid night of 14<sup>th</sup> August 1947?

- Hansa Mehta
- Jawaharlal Nehru
- Dr. B R. Ambedkar
- Pingali Venkaiah

152. Out of the following which is not the correct measurement of our National Flag in mm

- 6300:4200
- 3600:2000
- 1350:900
- 150:100

153. Borlaug award is associated with

- Agriculture
- Cinema
- Education
- Journalism

154. Out of the following which substance can be used as moderator in nuclear reactor

- Aluminium oxide
- Diamond
- Water
- Beryllium oxide

155. Name the official book that lays down the code for the use of our National Flag

- The flag book of India 2002
- Flag code of India 2002
- Code for Tiranga 2002
- The Tiranga code book 2002

156. In which place does the largest single block of tidal halophytic mangrove of the world exist?

- Sunderbans
- Amu Darya
- Selenga
- Niger

157. Tropical rain forest of the ocean is called

- Coral reefs
- Lagoons
- Atolls
- Barrier reefs

158. Name the microscopic algae that lives on coral

- Chlorophyta
- Zooxanthellae
- Rhodophyta
- Chrysophyta

159. Beetles and backswimmers belong to which type of aquatic organisms?

- Neuston
- Plankton
- Nekton
- Periphyton

160. Greater BOD indicates

- More the dissolves oxygen in the water
- Lesser the amount of organic matter in water
- Sufficient oxygen is present
- Lower the dissolved oxygen in the water

161. An example for Ecotone

- Himalaya
- Desert
- Mangrove forest
- Marine waters

162. A crippling deformity called Minamata disease occurs due to consumption of

- Lead
- Cadmium
- Mercury
- Copper

163. Red data book is issued by

- IUCN
- UNEP
- MoEF
- IDB

164. Which state has largest area of forest?

- Andhra Pradesh
- Madhya Pradesh
- Karnataka

## CSIR-NIIST JUNIOR SECRETARIAT ASST – PYQ 2022

- d. West Bengal
165. Himalayan region is represented by
- Nearctic realm
  - Malayan realm
  - Palaearctic realm
  - Indomalaya realm
166. Name the latest Indian laboratory in Antarctica.
- Dakshin Gangotri
  - Maitri
  - Himadri
  - Bharati
167. Which gas is not a greenhouse gas?
- Water vapour
  - Carbon dioxide
  - Nitrogen
  - Methane
168. Angiosperms are
- Closed seeded plants
  - Naked seeded plants
  - Plant with small stem and simple leaves
  - Plants with well differentiated plant bodies and possess vascular bundles
169. Out of the following which country is not a member of Arctic council according to Ottawa declaration
- Canada
  - India
  - Norway
  - United states
170. Head quarter of Inter-Governmental panel on climate change
- Rome
  - Washington
  - New Delhi
  - Geneva
171. Who has got Nobel Prize for peace and science?
- Malala Yousafzai
  - Kailash Satyarthi
  - Linus Pauling
  - Madam Curie
172. Earth hour is a global even organised by WWF and is held on the
- Second Sunday of February annually
  - Last Saturday of February
  - Last Saturday of March annually
  - Last Sunday of February annually
173. Name the lake that is saline
- Indira sagar lake
  - Sambhar lake
  - Loktak lake
  - Wular lake
174. Which is the wrong statement?
- Speed of sound is maximum in solids and minimum in gases
  - The speed of sound is more in humid air than in dry air
  - When sound goes from one medium to another medium, its speed, wavelength and frequency changes
  - The speed of the sound increases with the increase of temperature of the medium
175. First country to impose carbon tax
- New Zealand
  - Australia
  - Switzerland
  - Canada
176. Who is the present secretary general of United Nations?
- Trygve Lie
  - Ban Ki Moon
  - Anto'nio Guterres
  - Kofi Annan
177. Identify which is not the correct match between the major agricultural revolution and product.
- Blue-Fish
  - Yellow-Oilseed
  - Red-Meat
  - Pink-Egg
178. Who is the chairperson of NITI Ayog?
- President
  - Prime Minister
  - Attorney General
  - Vice President
179. Rajya Sabha is a permanent house. It shares legislative powers with the Lok sabha, except in case of
- Constitutional Amendments
  - Money bill
  - Education bill
  - Ordinary bill
180. Out of the following which is not to be the qualification of Chief Justice of India

## CSIR-NIIST JUNIOR SECRETARIAT ASST – PYQ 2022

- a. Must be a citizen of India
  - b. Judge of High court for atleast 5 years
  - c. An advocate of High court for atleast 10 years
  - d. Completed 35 years of age
181. Highest Law officer of India
- a. President of India
  - b. Attorney General of India
  - c. Comptroller and Auditor general of India
  - d. Chief Justice of India
182. Name the river that falls into the Arabian sea
- a. Caveri
  - b. Ganga
  - c. Indus
  - d. Krishna
183. Which is the coldest region of the atmosphere?
- a. Mesosphere
  - b. Stratosphere
  - c. Ionosphere
  - d. Exosphere
184. Out of the following which is Igneous rock?
- a. Gypsum
  - b. Granite
  - c. Quartzite
  - d. Marbles
185. Who is known as Akbar of Kashmir who built Zaina lake, Artificial Island in Wular lake?
- a. Samsuddin Shah
  - b. Zain-ul-Abideen
  - c. Lord Wellesley
  - d. Lord Cornwallis
186. Father of Civil service in India
- a. Lord Canning
  - b. Lord Dalhousie
  - c. Lord Wellesley
  - d. Lord Cornwallis
187. Bismillah Khan is famous for
- a. Shehnai
  - b. Sarod
  - c. Sarangi
  - d. Kanjira
188. Longitude is passing  $60^{\circ}\text{E}$  of a town. What will be the local time of that area in relation to GMT?
- a. Standard time is equal to GMT
  - b. Standard time is 4hrs behind of GMT
  - c. Standard time is 4hrs ahead of GMT
  - d. Standard Time is 4hrs 40mts ahead of GMT
189. Nationalisation of Commercial banks occurred in India in the year
- a. 1971
  - b. 1970
  - c. 1969
  - d. 1980
190. "It is a post dated cheque on a crashing bank", Gandhiji stated this against
- a. The Cripps Mission
  - b. Simon Commission
  - c. Cabinet Mission
  - d. Rowlatt act
191. Ramon Magsaysay award is given in six categories. Out of the following which category is not considered
- a. Govt. service
  - b. Journalism, Literature
  - c. Peace and International understanding
  - d. Sports
192. Which is the correct match of trophy associated with sports?
- a. Subroto Mukherjee cup – Cricket
  - b. Thomas cup – Tennis
  - c. Duleep cup – Golf
  - d. Durand cup – Foot ball
193. Which is not correct matching about the official book of major countries?
- a. White book – An official publication of China
  - b. Yellow book – An official paper of the Govt of France
  - c. Orange book – An official publication of Italy
  - d. Blue book – An official report of British Govt
194. Which state has signed MoU with Telangana to set up all women-run cooperative bank?
- a. Andhra Pradesh
  - b. Rajasthan
  - c. Karnataka
  - d. Punjab
195. Recently, the supreme court of India upheld the scheduled castes and the



## CSIR-NIIST JUNIOR SECRETARIAT ASST – PYQ 2022

- scheduled tribes (Prevention of atrocities)  
Amendment act. When was the original  
act of 1989 amended?
- a. 2016                      b. 2017
  - c. 2018                      d. 2019
196. As per the recent update from the IMF,  
what is India's growth forecast for 2022-  
23?
- a. 6.8                        b. 7.4
  - c. 8.2                        d. 6.2
197. Name the indigenously built Aircraft  
carrier, constructed by Cochin shipyard.
- a. INS Vikrant              b. INS Makar
  - c. INS Shivalik             d. INS Trikan
198. Which institution recently released a  
report titled India's Booming Gig and  
platform economy?
- a. World Bank
  - b. International Labour Organisation
  - c. NITI Ayog
  - d. IMF
199. First Asian woman to win Oscar for best  
director
- a. Teruhisa Yamamoto
  - b. Armon Milchan
  - c. Kathryn Bigelow
  - d. Chloe Zhao
200. 'CAPSTONE' which was in the news  
recently, is a satellite launched by which  
space agency?
- a. NASA                      b. ESA
  - c. Space X                   d. ISRO