

MAT

1. 21, 23, 27, 33, \_\_\_\_\_?  
 (A)37 (B)41 (C)43 (D)49
2. 1, 6, 15, \_45, 66, 91  
 (A) 25 (B)26 (C)27 (D)28
3. 2, 6, 12, \_\_\_\_\_30  
 (A) 18 (B)24 (C)20 (D)26
4. 107, 97, 82, 62\_\_\_\_\_?  
 (A)52 (B)42 (C)47 (D)37
5. 2,1,4,3,6,5,8,\_\_\_\_\_  
 (A)9 (B)10 (C)7 (D)8
6. 8,3,11,14,25,\_\_\_\_\_  
 (A)50 (B)39 (C)29 (D)11
7. 8,16,28,44,\_\_\_\_\_  
 (A) 62 (B)64 (C)66 (D)60
8. 2,8,18,32,50,\_\_\_\_\_  
 (A) 64 (B) 72 (C) 70 (D) 68
9. 1,3,7,15,31\_\_\_\_\_   
 (A) 37 (B) 36 (C) 73 (D) 63
10. 0,3,8,15,24\_\_\_\_\_48  
 (A) 41 (B) 29 (C) 37 (D) 35

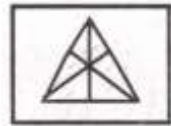
11.



(A)



(B)

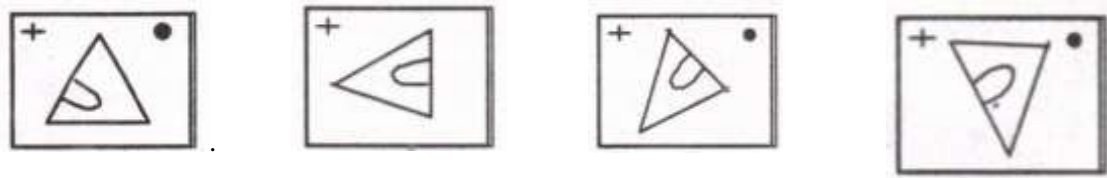


(C)



(D)

12.



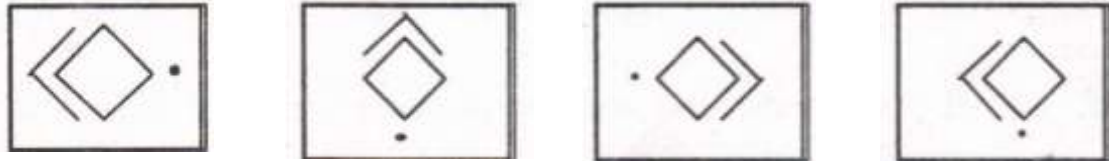
(A)

(B)

(C)

(D)

13.



(A)

(B)

(C)

(D)

14.



(A)

(B)

(C)

(D)

15.



(A)

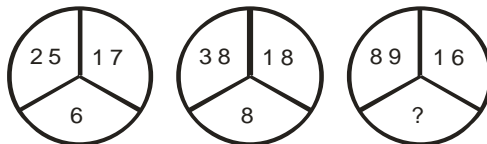
(B)

(C)

(D)

In question No 16 to 20, figures are given with question mark (?). Complete the figure replacing question mark (?) with suitable number logically

16.



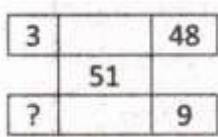
(A) 13

(B) 15

(C) 17

(D) 19

17.



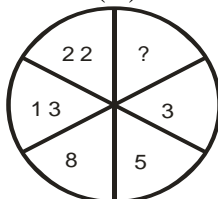
(A) 25

(B) 20

(C) 32

(D) 42

18.



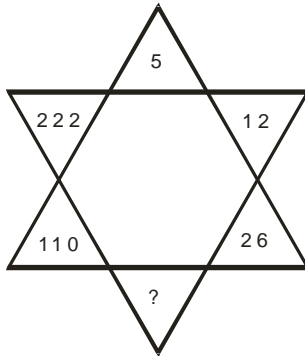
(A) 1

(B) 26

(C) 39

(D) 45

19.



(A) 1

(B) 26

(C) 39

(D) 45

20.

4	3	2
6	9	5
9	27	?

(A) 1

(B) 26

(C) 39

(D) 45

In question No 21 to 25, English alphabets are given digital numbers. Using them find the correct code (number) for other English words from options given below.

21. If CUP = 40 the KITE = \_\_\_\_\_

(A) 10

(B) 20

(C) 30

(D) 45

22. If ZEBRA = 2652181 then LION= \_\_\_\_\_

(A) 1291514

(B) 50

(C) 9112514

(D) 2591541

23. If BAG = 71 the VICE = \_\_\_\_\_

(A) 69

(B) 70

(C) 75

(D) 90

24. If RAJU = 11-12-13-14 and JUNK = 13-14-10-9 then RANK = \_\_\_\_\_

(A) 9-10-11-12

(B) 10-11-12-9

(C) 11-12-10-9

(D) 12-1-0-9

25. If WORK = 4-12-9-16 then WOMAN = \_\_\_\_\_?

(A) 4-12-14-16-13

(B) 4-26-14-13-12

(C) 23-12-26-14-13

(D) 23-15-13-1-14

In question No 26 to 30, if order of English alphabet is changed, code language is changed, then choose their option from the given option

26. If TNELLECXE written instead of EXCELLENT then what is written for MARKET?

(A) TERKAM

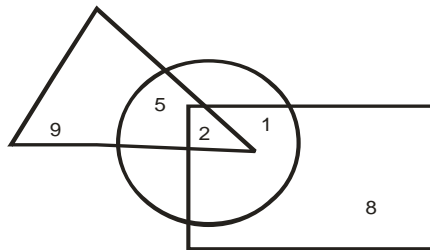
(B) TEMARK

(C) TEKRAM

(D) TEKRMA

27. If PQRS is written as KJIH, the EFGH is written as\_\_\_\_\_
- (A) VUTS      (B) STUV      (C) SUTV      (D) WVUT
28. If WXYZ = DCBA then COME=?
- (A) XKNV      (B) XLNV      (C) LNVX      (D) LXNU
29. If CARING=EDVGKC and SHARE = UKEPBO then CASKET = ?
- (A) EDXIBP      (B) EDWIAP      (C) EDWPAI      (D) EDWIBP
30. If PICTURE = QHDSVQF then BROWSER=?
- (A) CQVVTD      (B) CQPVTDS      (C) CQPVTDS      (D) CQVPPDS

31.



- (A) 2      (B) 5      (C) 9      (D) 1

32. Pointing at photo of female, Ashok said, “Her father’s wife is my wife’s mother in law. What is the relation as Ashok with that female in photo?”
- (A) Sister      (B) Wife      (C) Mother      (D) Daughter
33. As relation of square with perimeter, what is the relation of circle from following in the same manner?
- (A) Area      (B) Volume      (C) Circumference      (D) Side
34. 423411223412244335341123
- in the above series, how many 3’s are there such that 4 comes after 3 and 2 comes before 3?
- (A) 4      (B) 3      (C) 2      (D) 1
35. a-curd, b-milk, c-butter-milk, d-butter, are given. From above milk products, what order is logically correct from following option given?
- (A) bacd      (B) abcd      (C) dcba      (D) acbd

36. Shoes : cobbler :: food-grain : \_\_\_\_\_  
(A) Trader (B) Farmer (C) Factory (D) Scientist
37. On 26- January-1947 is Tuesday, then which day on 2- September-1947?  
(A) Tuesday (B) Wednesday (C) Thursday (D) Saturday
38. What is the angle between hour hand and minute hand in the clock shows time 8:25.  
(A)  $90^{\circ}$  (B)  $102.5^{\circ}$  (C)  $77.5^{\circ}$  (D)  $12.5^{\circ}$
39. Maulik walks 5 km in east direction, then he turns right and walk 8 km, again he turns left and walk 5 km, then he turns rest and walk 8km. Now, how much would he for from his origin?  
(A) 10 km (B) 18 km (C) 31 km (D) 13 km
40. If is stand by keeping mouth in east direction and turn 1000 clockwise and then turn again 1450 anticlockwise, then in which direction keeping my mouth will I Stand?  
(A) North-East (B) South-East (C) North-West (D) West
41. In a line of 200 players, Kartikey's sequence is 18<sup>th</sup> from left side, when what is his sequence order from right side?  
(A) 182 (B) 183 (C) 184 (D) 218
- In question No: 42,43 and 44 one word differs from the rest. Which one is that?
42. (A) Kilometer (B) Centimeter (C) Litre (D) Light Year
43. (A) Milk (B) Ghee (C) Butter (D) Oil
44. (A) Ahmedabad (B) Gandhinagar (C) Newyork (D) Mumbai
45. There is a relation between India and Delhi. Which of the following words has the same type of relation with U.S.A?  
(A) Mumbai (B) Washington (C) New York (D) Standford
46. If x is stead of +, - instead of x, - instead of  $\div$ , and + instead of - are considered, then what is the answer of following by symlifying ?  
(A) 18 (B) 16 (C) 15 (D) 12



**NATIONAL TALENT SEARCH EXAM****(NTSE-2017) STAGE-1****ANSWER KEY****GUAJRAT STATE - MAT**

1. B	2. D	3. C	4. D	5. C	6. B	7. B	8. B	9. D	10. D
11. A	12. B	13. D	14. A	15. C	16. B	17. D	18. C	19. A	20. D
21. D	22. A	23. A	24. C	25. A	26. C	27. A	28. B	29. D	30. B
31. A	32. A	33. C	34. C	35. A	36. B	37. C	38. B	39. A	40. A
41. B	42. C	43. D	44. C	45. B	46. A	47. B	48. A	49. B	50. B

ENGLISH

1. Give the name of poet of poem, 'The patriot'.  
(A) Robert Browning (B) Henry Fransis Lyte  
(C) Hans Anderson (D) Laurence Houseman
2. Prof. Hawking earned fame for which research?  
(A) Mystery of Plants. (B) Mystery of Black hole.  
(C) Mystery of Space (D) Mystery of Aging.
3. What is the meaning of conjurer?  
(A) Wonder (B) Scholar  
(C) Magician (D) Musician
4. The poem 'Independence' is taken from the collection from \_\_\_\_\_  
(A) Propa Propa Ganda (B) Life is fine  
(C) Daddy (D) the poor ghost
5. On which date did the fire start?  
(A) August 14, 1966 (B) January 16, 1966  
(C) September 2, 1966 (D) March 1, 1966
6. The author of 'A visit to Cambridge' felt relief and exhilaration because \_\_\_\_\_  
(A) His body was strong.  
(B) Hawking was weak.  
(C) He had suddenly gained strength.  
(D) He learnt that even the disabled body could do a lot.
7. The little match girl' story is famous for \_\_\_\_\_  
(A) Its poignant tragedy (B) Because of its beauty  
(C) None of these (D) Both A and B
8. Under Fire' by Laurence Housman which character is not found?  
(A) Prince Albert (B) The Queen  
(C) Andrea (D) Court Usher
9. Who wrote the poem 'Ants'?  
(A) Anon (B) Whittier  
(C) Henry W. Longfellow (D) Grabriel Okara
10. The author Mulkraj Anand says, "Mustard field like melting gold because \_\_\_\_\_  
(A) The mustard flowers are yellow in colour.  
(B) The mustard flowers are golden yellow in colour.  
(C) The mustard flowers are red and yellow in colour.  
(D) The mustard flowers are green and yellow in colour.



11. Who understand the value of independence or freedom?  
 (A) Slave (B) Owner  
 (C) Servant (D) Merchant
12. What was the name of the ship that sank after being hit (to strike against) by an iceberg?  
 (A) Oscar (B) Vikrant  
 (C) Titanic (D) Cruise
13. The Ants work in  
 (A) Individually (B) Separately  
 (C) Gang (D) Couple
14. Marcus hated \_\_\_\_\_  
 (A) walking (B) barking  
 (C) dreaming (D) sleeping
15. Jim Bishop's father was \_\_\_\_\_  
 (A) a priest (B) a policemen  
 (C) a soldier (D) a diamond merchant
16. The poet compares the songs sung by his mother with \_\_\_\_\_  
 (A) cuckoo's song (B) hymns  
 (C) tinkling sounds of streams (D) din
17. \_\_\_\_\_ was Miko's weak point.  
 (A) Imagining (B) counting  
 (C) minding sleep (D) complaining
18. When Dr. Sher Singh checked the patient's reflexes. They were \_\_\_\_\_  
 (A) loud and clear (B) on the dot  
 (C) Clear and strong (D) weak and unsteady
19. The instructor was rather shocked to see that the writer had drawn \_\_\_\_\_ in his book.  
 (A) stem cells (B) Flower plants  
 (2) his own eye (D) a lens
20. Bolencicwez was asked a question on \_\_\_\_\_ that he could not reply even after a lot of prompting till very late.  
 (A) Plant cell (B) mechanics of flora  
 (C) means of transportation (D) Animal cells
21. 'A wrong Man in worker's Paradise' is written by \_\_\_\_\_  
 (A) James Thurber (B) Jan morris  
 (C) Ruskin Bond (D) Rabindranath Tagore
22. Jerome K. Jerome was not having only one disease and that was \_\_\_\_\_  
 (A) St. vitus's Dance (B) gout  
 (C) house maid's Knee (D) Zymosis

23. The poet in the poem 'commuter' takes his lunch \_\_\_\_\_  
 (A) in his office (B) at his house  
 (C) in the canteen (D) at a restaurant
24. The level of noise made by a motorcycle is \_\_\_\_\_decibels  
 (A) 100 (B) 90  
 (C) 80 (D) 85
25. The writer of 'mulch Ado About nothing is \_\_\_\_\_  
 (A) Jan Morris (B) Dale Wimbrow  
 (C) Will Stanton (D) D.E.V. Lucas
26. Robert Burns compares his love with \_\_\_\_\_  
 (A) seas (B) a sweetly played melody  
 (C) rocks (D) sands of life
27. The poem 'Milk for the at' is written by  
 (A) Harold Monro (B) Anonymous  
 (C) William Morris (D) D.H. Lawrence
28. I went into the kitchen and addressed him (make simple)  
 (A) I had gone into the kitchen and addressed him.  
 (B) Going into the kitchen, I addressed him.  
 (C) I addressed him when I went into the kitchen.  
 (D) on addressing him, I went into the kitchen
29. Nothing can move me. (Add a question tag)  
 (A) can it ? (B) can't it ?  
 (C) couldn't it ? (D) didn't it ?
30. I am so clymsy. (Make it Negative)  
 (A) I cannot resist being clumsy. (B) MI can refrain from being clumsy.  
 (C) I am not so. (D) I cannot avoid being confident.
31. I wish I could get some sleep. (Turn into Exclamatory Sentence)  
 (A) Oh! To get some sleep. (B) Alas! To get some sleep.  
 (C) Wow! To get some sleep. (D) What a wish to get some sleep!
32. Each drowsy paw is doubled under each bending knee. (Identify the figure of speech)  
 (A) metaphor (B) Transferred epithet  
 (C) Euphemism (D) Apostrophe
33. I cannot think how he recognized it. (make Interrogative)  
 (A) Can I think how he recognized it ? (B) How do I not think he recognized it ?  
 (C) Can I not think he recognized it ? (D) Can I think he did not recognized it ?

34. He was able to hear anything connecting to food. (Make Complex)  
 (A) He was still able to hear anything that was connected with food.  
 (B) He was still able to hear anything connected to food.  
 (C) Anything that was connected to food still be heard by him  
 (D) Both A and C
35. Ear-rings are a form of vanity we can't afford. (Make Affirmative)  
 (A) Ear-rings are a form of vanity we can afford.  
 (B) Ear-rings are a form of vanity we can't disafford.  
 (C) Ear-rings are an unaffordable vanity for us.  
 (D) Ear-rings are a mis affordable vanity for us.
36. I was glad her dream came true. (Make compound)  
 (A) Her dream came true and so I was glad. (B) I was glad that her dream came true.  
 (C) I was glad and her dream came true. (D) I was glad due to her dream come true.
37. Will you give me one of your pitchers, one that you can spare? (Make Assertive)  
 (A) You give me one of your pitchers, one that you can spare.  
 (B) Please give me one of your pitchers, one that you can spare.  
 (C) You should give me one of your pitchers, one that you can spare.  
 (D) You will give me one of your pitchers, one that you can spare.
38. The entire hearing aid can be contained in a button-size package system. (Change the Voice)  
 (A) The entire hearing aid can contain in a button-size package system of, 44,  
 (B) A button-size package syst6rillfiefy could contain the entire hearing aid.  
 (C) In a button-size package system the entire hearing aid is contained.  
 (D) A button-size package system can contain the entire hearing aid.
39. Give the Noun form of 'Expose'.  
 (A) exposition (B) exposed  
 (C) exposure (D) exposement
40. Give the Opposite of 'Fact'.  
 (A) story (B) Fiction  
 (C) horror (D) Reality
41. Choose the correct option for the underline word in the following sentence.  
 The man was taken to task by busy farmers.  
 (A) Compelled to do odd jobs. (B) scolded  
 (C) appreciated (D) criticized
42. The Adjective form of 'Picture' is  
 (A) Pictural (B) Picturable  
 (C) Pictorial (D) Picture some

43. Give the verb form of 'Choice'.  
(A) choise (B) choose  
(C) choosify (D) choicify
44. The Antonym of 'opaque' is  
(A) transparent (B) transparency  
(C) transpire (D) transfer
45. Give the Opposite of 'freedom'.  
(A) diligence (B) liberty  
(C) laziness (C) slavery
46. The phrase 'dead end job' means  
(A) unstoppable work (B) unending work  
(C) frustrating work (D) undesired work
47. Change the Voice. — Let that be listened to.  
(A) Listen to that (B) That should be listened to  
(C) That should listen to you (D) Listen to it.
48. They were friendly and eager to help a neophyte like me. (use 'so that')  
(A) They were so friendly and eager that to help a neophyte like me  
(B) They were so friendly and eager that they would help a neophyte like  
(C) They were so friendly and eager that they will help a neophyte like me  
(D) They were so friendly and eager that to help a neophyte like me.
49. They had put it off too long. (Remove 'too')  
(A) They had put it off very long. (B) They had put it off not to long.  
(C) They had put it off before long. (D) They had put it off over long.
50. Give the Adjective form of 'Pretend'.  
(A) Pretence (B) Preventive  
(C) Pretention (D) Pretense

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**NATIONAL TALENT SEARCH EXAM  
(NTSE-2017) STAGE-1  
ANSWER KEY  
GUAJRAT STATE - English**

1. A	2. B	3. C	4. A	5. C	6. D	7. A	8. C	9. C	10. B
11. A	12. C	13. C	14. A	15. B	16. C	17. B	18. B	19. C	20. C
21. D	22. C	23. C	24. B	25. C	26. B	27. A	28. C	29. A	30. A
31. B	32. B	33. A	34. D	35. C	36. A	37. C	38. D	39. C	40. B
41. B	42. C	43. B	44. A	45. D	46. D	47. A	48. B	49. D	50. *

\*means question is not correct / bonus.

## SAT

**MATHEMATICS**

- If  $A=\{1,2,3,4\}$ ,  $B = \{2,4,5,6\}$ ,  $U=\{1,2,3,4,5,6,7\}$  then  $A' \cap B' =$  \_\_\_\_\_  
 (A)  $\emptyset$  (B)  $\{1,2,3,4,5,6\}$  (C)  $\{7\}$  (D)  $\{3,4,5,6\}$
- An equivalent expression of  $\frac{5}{7+4\sqrt{5}}$  after rationalizing the denominator is\_\_  
 (A)  $\frac{20\sqrt{5}-35}{31}$  (B)  $\frac{20\sqrt{5}-35}{129}$  (C)  $\frac{35-20\sqrt{5}}{31}$  (D)  $\frac{35-20\sqrt{5}}{121}$
- If  $x-2$  is factor of  $3x^4 - 2x^3 + 7x^2 - 21x + k$  then the value of  $K$  is  
 (A) 2 (B) 9 (C) 18 (D) -18
- Line  $x + y = 2$  passes through the \_\_\_\_\_ quadrants.  
 (A) 1<sup>st</sup> and 3<sup>rd</sup> both (B) 2<sup>nd</sup> and 3<sup>rd</sup> both  
 (C) 3<sup>rd</sup> and 4<sup>th</sup> both (D) 1<sup>st</sup>, 2<sup>nd</sup> and 4<sup>th</sup> all
- If the measure of the angle of  $\Delta ABC$  are in proportion 1 : 2 : 3, then the measures of the smallest angle is  
 (A)  $30^\circ$  (B)  $60^\circ$  (C)  $90^\circ$  (D)  $120^\circ$
- $\Delta ABC$  is an equilateral triangle,  $Ab=6$ , The points  $P, Q$  and  $R$  are midpoints of  $\overline{AB}$ ,  $\overline{BC}$  and  $\overline{CA}$  respectively. The perimeter of  $\square PBCR$  is \_\_\_\_\_  
 (A) 18 (B) 15 (C) 9 (D) 12
- In  $\square^{mn} ABCD$ , let  $\overline{AM}$  be the altitude corresponding to the base  $\overline{BC}$  and  $\overline{CN}$  the altitude corresponding to the base  $\overline{AB}$ , If  $AB = 10\text{cm}$ ,  $AM=6\text{cm}$  and  $CN=12\text{cm}$  then  $BC =$  \_\_\_\_\_ cm.  
 (A) 20 (B) 10 (C) 12 (D) 5
- A circle passes through the vertices of an equilateral  $\Delta ABC$ . The measure of an angle subtended by the side  $\overline{AB}$  at the centre of the circle has measure \_\_\_\_\_  
 (A) 30 (B) 60 (C) 90 (D) 120
- If the lengths of the sides of a triangle are in propotion 3:4:5 then the area of triangle is \_\_\_\_\_ sq. units, where perimeter of the triangle is 144  
 (A) 64 (B) 364 (C) 564 (D) 864

10. The ratio of radii of two cones is 2:3 and the ratio of their slant heights is 9:4. Then the ratio of their curved surface area is  
 (A) 3 :2                      (B) 1:2                      (C) 1:3                      (D) 2:3
11. The probability of getting both heads, when two balanced coins are tossed once is  
 (A)  $\frac{1}{2}$                       (B)  $\frac{1}{3}$                       (C)  $\frac{1}{4}$                       (D)  $\frac{1}{5}$
12. The characteristic of the number  $\log 0.003942 =$  \_\_\_\_\_  
 (A) 3                      (B) 2                      (C) -3                      (D) -2
13. A number having digit 2 at unit place then its cube has digit \_\_\_\_\_ at its units place.  
 (A) 1                      (B) 2                      (C) 8                      (D) 4
14. 3-years ago, the sum of ages of a father and his son was 40 years. After 2-year, the sum of ages of the father and his son will be \_\_\_\_\_  
 (A)40                      (B) 46                      (C) 50                      (D) 60
15. Correspondence  $ABC \longleftrightarrow DEF$  of  $\Delta ABC$  and  $\Delta DEF$  is similarity. If  $AB + BC + 10$  and  $DE + EF + 12$  and  $AC = 6$  then  $DF =$  \_\_\_\_\_  
 (A) 6                      (B) 5                      (C) 7.2                      (D) 16
16. In  $\Delta ABC$ , if  $\frac{AB}{1} = \frac{AC}{2} = \frac{BC}{\sqrt{3}}$ , then  $m \angle C =$  \_\_\_\_\_  
 (A) 90                      (B) 30                      (C) 60                      (D) 45
17. If  $7\theta$  and  $2\theta$  are measures of acute angles such that  $\sin 7\theta = \cos 2\theta$ , then  $\sin 3\theta - \sqrt{3} \tan \theta =$  \_\_\_\_\_  
 (A) 1                      (B) 0                      (C) -1                      (D)  $1 - \sqrt{3}$
18. If the angles of elevation of tower from two points a and b ( $a > b$ ) meters from its foot and the same side of the tower, have measure 30 and 60, then the height of the tower is \_\_\_\_\_  
 (A)  $\sqrt{a+b}$                       (B)  $\sqrt{ab}$                       (C)  $\sqrt{a-b}$                       (D)  $\sqrt{\frac{a}{b}}$
19. A chord of  $\odot (0,5)$  touches  $\odot (0,3)$ . Therefore the length of the chord = \_\_\_\_\_  
 (A) 8                      (B) 10                      (C) 7                      (D) 6





27. Velocity of vehicle increases from  $5 \frac{m}{s}$  to  $15 \frac{m}{s}$  in 5 second. What is the magnitude of acceleration?
- (A)  $4 \frac{m}{s^2}$       (B)  $4 \frac{m}{s}$       (C)  $2 \frac{m}{s}$       (D)  $2 \frac{m}{s^2}$
28. What is the focal length of a convex lens having power + 5.0 D?
- (A) -10 cm      (B) -20cm      (C) +10cm      (D) +20cm
29. 1 Newton = \_\_\_\_\_ dyne
- (A)  $10^3$       (B)  $10^4$       (C)  $10^5$       (D)  $10^6$
30. The increase in velocity of a freely falling body is one second is \_\_\_\_\_
- (A)  $9.8 \text{ m/s}^2$       (B)  $9.8 \text{ m/s}$       (C)  $-9.8 \text{ m/s}^2$       (D)  $-9.8 \text{ m/s}$
31. An object is thrown vertically upwards with velocity of 20 m/s. At what height will its kinetic energy and potential energy be equal? ( $g = 10\text{m/s}^2$ )
- (A) 10 m      (B) 20m      (C) 15m      (D) 5m
32. Sound corresponding to which frequency is ultrasonic sound?
- (A) 30 Hz      (B) 300 Hz      (C) 3000 Hz      (D) 30,000 Hz
33. A cyclist travels 5km in the east direction. Then he travels 12km in the south direction. What is the magnitude of displacement of the cycle?
- (A) 17km      (B) 13km      (C) 7km      (D) zero

### **Chemistry**

34. Howmany Elelctrons are there in chloride ion?
- (A) 17      (B) 18      (C) 16      (D) 8
35. Which scientist gave the rule of octet?
- (A) Lewis      (B) Rayleigh and Ramsey (C) Dalton      (D) Dobereiner
36. What is the chemical name of quick lime?
- (A) Calcium Oxide (B) Calcium Carbonate      (C) Calcium hydroxide      (D) Carbon dioxide
37. Which rays are used to diagnose cancer of esophagus?
- (A) Laser      (B) Cathod      (C) X-Ray      (D) r-Ray

38.  $250\text{ C} = \text{_____ K}$   
(A) 273 (B) 248 (C) 298 (D) -298
39. Which of the following shows the Tyndall effect?  
(A) Solution of common salt (B) Milk  
(C) Lemon Juice (D) Solution of copper sulphate
40. The PH-value of bite of honey-bee is  
(A) 7 (B) More than 7 (C) Less than 7 (D) of any value
41. To prepare 100 ml, 2M, NaOH solution, \_\_\_\_\_gram of NaOH will be required?  
(A) 40gm (B) 8gm (C) 16gm (D) 24gm
42. What is the ratio of iron, chromium and nickel in stainless steel?  
(A) 7:2:1 (B) 7:1:2 (C) 7:3:1 (D) 1:2:7
43. Which metal is mixed with gold to prepare its ornaments?  
(A) Platinum (B) Nickel (C) Copper or Silver (D) Zinc
44. The full form of PABA is \_\_\_\_\_  
(A) Para Amino Boric Acid (B) Potassium Amino Basic Acid  
(C) Para Amino Benzoic Acid (D) Para Amino Benzoic Acetate
45. Where ammonia is not used?  
(A) Nylon fibers (B) Fertilizers (C) Explosives (D) Welding
46. What is the chemical formula of oleum?  
(A)  $\text{H}_2\text{SO}_4$  (B)  $\text{H}_2\text{SO}_3$  (C)  $\text{H}_2\text{S}_2\text{O}_7$  (D)  $\text{H}_2\text{S}_2\text{O}_3$

**Biology**

47. Give the name of scientist DNA molecules.  
(A) Robert Brown (B) Robert Hook (C) Levan Hook (D) Watson and crick
48. Which of the Plant tissue shows the pectin deposition on cell wall?  
(A) Collenchyma (B) Parenchyma (C) Sclerenchyma (D) Chloren chyma

49. Which disease is spread through influenza virus  $H_1N_1$ ?  
(A) Dengue (B) Chickengunya (C) AIDS (D) Swineflue
50. Binomial nomenclature was given by the scientist \_\_\_\_\_  
(A) Robert Whittaker (B) Carolus Linnaeus (C) Carl Woese (D) Ernst Haeckel
51. Which special structures are connected with wall of the lungs in class Aves?  
(A) Air Sac (B) Diaphragm (C) Spongy Bones (D) Booklungs
52. Identify the protochordata Animals  
(A) Shark (B) Frog (C) Balanoglossus (D) Rohu
53. Which is the improved hybrid variety of Wheat?  
(A) Sona (B) Sonalika (C) PS-16 (D) Paras
54. Which of the following is not consumer?  
(A) Carnivores (B) Herbivores (C) Autotrophs (D) Omnivores
55. What is the range of wavelength of U.V. rays?  
(A) 132 to 200 nm (B) 310 to 400nm (C) 310 to 200 nm (D) 300 to 200 nm
56. Which of the following gland acts as an endocrine gland as well as exocrine gland?  
(A) Salivary gland (B) Pancreas gland (C) Pituitary gland (D) Parathyroid gland
57. By which cell the process of opening and closing of stomata is controlled?  
(A) Epidermal Cell (B) Guard Cell (C) Accessory Cell (D) Leaf Cell
58. What is the weight of the brain of an adult human?  
(A) 1350gm (B) 1.350gm (C) 1530gm (D) 3150gm
59. How many upper chambers are present in human heart?  
(A) Four (B) Three (C) Two (D) One
60. In which book endangered plant species names are published?  
(A) Endangered species book (B) Green data book  
(C) Red data book (D) Yellow data book

**Social Science**

61. "Kanchenjunga" Peak is situated in \_\_\_\_\_ state in India  
(A) Arunachal Pradesh (B) Asam (C) Sikkim (D) Uttranchal
62. By which name the combined flow of river the Ganga and the Brahmaputra is known?  
(A) Doab (B) Bangar (C) Meghna (D) Tarai
63. Which area is Jammu and Kashmir is an area of scanty rainfall?  
(A) Leh (B) Ladakh (C) Jammu (D) Kashmir
64. Distance between India and Europe was reduced due to \_\_\_\_\_ canal.  
(A) Suez (B) Panama (C) Agra (D) Grand
65. Which river does not meet to Bay of Bengal?  
(A) Krishna (B) Kaveri (C) Maha (D) Narmada
66. What is prepared out of the liquid of Chid?  
(A) Catechu (B) Turpentine (C) Lac (D) Gam
67. Which soil contains more combination of iron and Aluminum?  
(A) Red (B) Laterite (C) Desert (D) Alluvial
68. Where are the flying squirrels seen?  
(A) Greater Rann of Kutchch (B) At higher altitude in Himalaya  
(C) Marshy land (D) In Western Ghats Forests
69. Which class of Animals are desert cat Ghudkhar and bear in Gujarat?  
(A) Extinct (B) Endangered  
(C) on the verge of extinction (D) Adversely (Vulnerable) affected
70. On which river lies the Nagarjunasagar project?  
(A) Godavari (B) Krishna (C) Tungbhadra (D) Kaveri
71. For which crop, is kanam region of Bharuch famous?  
(A) Tabacco (B) Wheat (C) Paddy (D) Cotton

72. Which institution of following does not purchase farm products from farmers as a sustainable prize?  
(A) GROFED (B) GUJCOMASOL (C) NDDB (D) DARE
73. Which soil have been derived from the Deccan Trap?  
(A) Black soil (B) Red soil (C) Alluvial soil (D) Laterite Soil
74. In which state was ' Chipko Movement' occurred?  
(A) Bihar (B) Gujarat (C) Punjab (D) Uttranchal
75. Which day is celebrated as "World Biodiversity Day"?  
(A) 21 -March (B) 5-June (C) 29-December (D) 4-October
76. How many countries had plunged into the first world war?  
(A) 23 (B) 32 (C) 20 (D) 19
77. When was Jallianwala Bagh Massacre happended?  
(A) 1919 (B) 1819 (C) 1920 (D) 1820
78. When did Dandi March start?  
(A) 12<sup>th</sup> April, 1930 (B) 12<sup>th</sup> March, 1931  
(C) 12<sup>th</sup> March 1930 (D) 12<sup>th</sup> April, 1931
79. England and America established military organization is known as \_\_\_\_\_  
(A) NATO (B) SEATO (C) CENTO (D) SWATO
80. In 1971 with which country India made traty?  
(A) China (B) Pakistan (C) Russia (D) America
81. Who was the promoter of non-aligned movement of India?  
(A) Lalbahadur Shashtri (B) Dr. Radhakarishnan  
(C) Pandit Jawaharlal Nehru (D) Shrimati Indira Gandhi
82. Which state is related to Kathak Dance?  
(A) Asam (B) Kerala (C) Uttar Pradesh (D) Orissa

83. The work by Amir Khusro is \_\_\_\_\_
- (A) Padmawat (B) Ashikan  
(C) Raghuvamsha (D) Swapnavasanhattam
84. Who Founded the city of Fatehpur sikri?
- (A) Baber (B) Akbar (C) Shahjahan (D) Humayu
85. Which Mughal emperor's period is known as golden period of Indian architecture?
- (A) Shah Jahan (B) Baber (C) Akbar (D) Humayu
86. Which is the world's largest Epic?
- (A) Ramayana (B) Ettutokai (C) Patthuppattu (D) Mahabharat
87. In Which literature a collection of dialogues between Buddha and his disciples is given?
- (A) Sukta Pitaka (B) Vinay Pitika (C) Abhidhamma Pitika (D) Milind Pahano
88. Give the name of race known as creator of Mohen-jo-Daro Culture
- (A) Australoid (Nlshad People) (B) Dravidian  
(C) Aryans (D) Negroid (Habsi People)
89. Black complexion, broad hand, flat nose, short height ect. were the physical features of the tribe called.....
- (A) The Dravidians (B) The Armenoids  
(C) The Mongoloids (D) The Autroloids
90. German poet Goethe was so much impressed by reading which drama that the put it on his head and danced with joy?
- (A) Malvikagnimitram (B) Vikramovarshiyam  
(C) Abhignam Shankuntalam (D) Mahavir Charitam
91. Who can give the casting vote in case of a tie for any bill?
- (A) Vice Chairman (B) Vice President (C) Chairman (Speaker) (D) President
92. Which one right is not included in fundamental rights in our constitution?
- (A) Right of Equality (B) Insulting of women by men  
(C) Right to freedom (D) Right against exploitation

93. How many percentage have been provided reservation for women entire nation including Gujarat in local self-government organization.
- (A) 43%                      (B) 23%                      (C) 53%                      (D) 33%
94. Gujarat has implemented scheme such as \_\_\_\_\_ Bond to promote women education.
- (A) Mahila                      (B) Saraswati                      (C) Vidyalaxmi                      (D) Narmada
95. According to 2001 census, there were \_\_\_\_\_ women per thousand men in India
- (A) 933                      (B) 927                      (C) 930                      (D) 941
96. India \_\_\_\_\_ Country.
- (A) Backward                      (B) Developed                      (C) Developing                      (D) Very poor
97. Which country is not developed from following?
- (A) U.S.A                      (b) Japan                      (C) Nepal                      (D) France
98. Which activity cannot be classified under service sector?
- (A) Business                      (B) Education and Health (C) Gas and Electricity                      (D) Cattle rearing
99. The policy of globalization is associated with \_\_\_\_\_
- (A) Local trade                      (B) Foreign trade                      (C) Regional trade                      (D) All of these
100. In which year, Government of India passed air pollution control act in India?
- (A) 1999                      (B) 1981                      (C) 1995                      (D) 2002

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**NTSE STAGE 1, 2016 – 17****ANSWER KEY****SCHOLASTIC APTITUDE TEST****Mathematics**

1. C	2. A	3. D	4. D	5. A	6. B	7. A	8. D	9. D	10. A
11. C	12. C	13. C	14. C	15. C	16. B	17. *	18. B	19. A	20. C

**Physics**

21. A	22. B	23. C	24. B	25. D	26. C	27. D	28. D	29. C	30. B
31. A	32. D	33. B							

**Chemistry**

34. B	35. A	36. A	37. C	38. C	39. B	40. C	41. B	42. A	43. C
44. C	45. D	46. C							

**Biology**

47. D	48. A	49. D	50. B	51. A	52. C	53. B	54. C	55. *	56. B
57. B	58. A	59. C	60. C						

**Social Science**

61. C	62. C	63. A	64. A	65. D	66. D	67. B	68. A	69. B	70. B
71. D	72. D	73. A	74. D	75. C	76. A	77. A	78. C	79. A	80. C
81. C	82. C	83. B	84. B	85. A	86. D	87. A	88. B	89. D	90. C
91. C	92. B	93. D	94. C	95. A	96. C	97. C	98. D	99. B	100. B

\*means question is not correct / bonus.