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National Talent Search Examination 2006-2007

SAMPLE QUESTION PAPER FOR 2006-2007 EXAMINATIONS FOR CLASS VIII (N.T.S.E. - I)

Directions : In questions 1 to 10 there is a blank space in which only one of the four alternatives (1, 2, 3, 4) given under the question satisfies the same relationship as is found between the two terms to the left of the sign (: :) given in the question. Choose the correct alternative and write its number on your answer sheet.

निर्देश : प्रश्न संख्या 1 से 10 चिन्ह (: :) के बाईं ओर दो शब्द दिये गये हैं। इन शब्दों में आपस में एक विशिष्ट सम्बन्ध है। प्रत्येक प्रश्न के नीचे दिये गये चार विकल्पों (1,2,3,4) में से एक सही विकल्प चुनिये, जो बाईं ओर के दोनों पदों के सम्बन्ध के समान ही दायीं ओर के पद से उसी प्रकार सम्बन्धित हो, उत्तर-पुस्तिका में उस विकल्प की क्रम संख्या अंकित कीजिये।

1. BAROMETER : PRESSURE : :
THERMOMETER : ?
(1) HEAT
(2) MERCURY
(3) THERMOSCOPE
(4) TEMPERATURE
2. UMBRELLA : SUN SHINE : : OZONE : ?
(1) INFRA RED RAYS
(2) LIGHT RAYS
(3) ULTRA VIOLET RAYS
(4) X-RAYS
3. NIGHT BLINDNESS : VITAMIN-A : :
SCURVY : ?
(1) VITAMIN-B
(2) IRON
(3) VITAMIN-C
(4) IODINE
4. CARPENTER : SAW : : MASON : ?
(1) HAMMER
(2) BRICK
(3) SPADE
(4) TROWEL
5. BRICK : HOUSE : : PROTEIN : ?
(1) FISH
(2) MILK
(3) BODY
(4) SOYABEAN
6. TEETH : CHATTER : : HAND : ?
(1) SHAKE
(2) CLAP
(3) WAVE
(4) WRITING
7. GLUTTON : PIG : : IDLE : ?
(1) LEADER
(2) LAZY
(3) DRONE
(4) SCORPION
8. FLOWER:BOUQUET : : CRIMINAL:?
(1) JAIL
(2) GANG
(3) CRIME
(4) LAWYER
9. MUSIC : RHYTHM : : DESIGN : ?
(1) SYMMETRY
(2) TECHNICAL
(3) ARCHITECT
(4) BUILDING

10. SURFACE : LINE : : LINE : ?
 (1) SOLID
 (2) PLANE
 (3) STRING
 (4) POINT

Directions: In each of the following questions (11 to 20) the mathematical numbers are arranged in a particular order. There is a blank space in each of the following questions. Choose the missing number from the given alternatives and write its serial number on your answer sheet.

11. 1, 4, 9, 16, 25, ?
 (1) 34
 (2) 35
 (3) 36
 (4) 38

12. 6, 10, 18, 34, ?
 (1) 50
 (2) 58
 (3) 66
 (4) 68

13. 4, 3, 16, 12, 64, 48, ?
 (1) 145
 (2) 208
 (3) 256
 (4) 266

14. 1, 3, 5, 7, 13, 12, 25, 18, ?
 (1) 25
 (2) 30
 (3) 37
 (4) 41

15. 7, 19, 11, 17, 15, 15, 19, ?
 (1) 13
 (2) 17
 (3) 19
 (4) 23

16. 3, 6, 12, 15, 30, 33, ?
 (1) 36
 (2) 39
 (3) 60
 (4) 66

17. 2, 9, 28, 65, 126, ?
 (1) 187 (2) 217
 (3) 242 (4) 344

18. 80, 63, 48, 35, 24, ?
 (1) 13
 (2) 15
 (3) 17
 (4) 19

19. 2, 5, 6, 8, 12, 14, 20, 23, ?
 (1) 26
 (2) 27
 (3) 30
 (4) 32

20. 5, 9, 17, 33, 65, ?
 (1) 121
 (2) 123
 (3) 129
 (4) 131

Directions: Out of the four choices given for each of the questions from 21 to 30, you have to select one that will maintain the same relationship on the two sides of the sign : : if it is substituted for the question mark ‘?’

21. XZTV : ? : : RTNP : JLFH
 (1) PRNL
 (2) PRNM
 (3) PRLN
 (4) RPLN

22. ADCB : EHGf :: M P O N : ?
 (1) QTRS
 (2) TPRS
 (3) STQR
 (4) QTSR
23. LNPR : TVXZ :: FHJL : ?
 (1) RPNT
 (2) NTRP
 (3) NPRT
 (4) RTNP
24. JKGE : JLHF :: LOIF : ?
 (1) JPMG
 (2) MPGI
 (3) MPJG
 (4) PMGJ
25. TRUS : OMPN :: ? : JHKI
 (1) LOMP
 (2) OMPN
 (3) LNMO
 (4) MONP
26. ? : VKAF :: APFK : UJZE
 (1) BQGL
 (2) BQHL
 (3) CQGL
 (4) GLCQ
27. OILR : UCFX :: ? : CORL
 (1) CXUF
 (2) CUYF
 (3) FUCX
 (4) CUXF
28. ? : BGLQ :: YDIN : VAFK
 (1) EJOT
 (2) DLMS
 (3) DKMT
 (4) EKNS

29. OKQM : RNPL :: ? : ZVTY
 (1) YIWV
 (2) SYTW
 (3) YUSX
 (4) WSYU
30. TOPK : JEFA :: ZUVQ : ?
 (1) PKLG
 (2) PLKG
 (3) LKQH
 (4) PKLH

Directions: Out of the four choices given for each of the questions from 31 to 35, select one from the four alternatives (1,2,3,4) which will maintain the same relationship on the two sides of the sign “:” same if it is substituted for the question mark “?”

31. ANO : DQR :: GTU : ?
 (1) JWV
 (2) JWX
 (3) JKX
 (4) JKW
32. ADQN : BERO :: HKXQ : ?
 (1) VILY
 (2) ILVY
 (3) FISV
 (4) FIVS
33. ZWTQ : QNKH :: UROL : ?
 (1) JGDA
 (2) KIFC
 (3) MJFC
 (4) NKGD
34. HWJU : ETGR :: ? : DSFQ
 (1) IYKV
 (2) IXKV
 (3) ITGV
 (4) AQC�

35. MOQS : FHJL :: ? : OQSU
 (1) DFHJ
 (2) CEGJ
 (3) SUWZ
 (4) IKMP

Directions : Questions from 36 to 45 are based on logic. Write the correct answer.

36. Amar is shorter than Bimal but not as short as Chaman. Dinesh is taller than Ekta who is not as short as Fatima. Who is shortest among the group?
 (1) Amar
 (2) Ekta
 (3) Fatima
 (4) Bimal
37. In a class among the passed candidates in the annual examination, Arun's position is 12th from top and 28th from bottom. If fifteen students failed, how many students appeared in the examination?
 (1) 51 (2) 52
 (3) 53 (4) 54
38. Five boys are sitting in a row. Pramod is on the right of Mukesh. Naresh is on the left of Mukesh but is on the right of Virendra. Pramod is on the left of Anand. Which boy is on the extreme left?
 (1) Virendra
 (2) Anand
 (3) Pramod
 (4) Mukesh
39. Rani is Jayant's sister. Monica is Jayant's mother. Dinesh is Monica's father. Lata is Dinesh's Mother. How is Rani related to Lata?
 (1) Daughter
 (2) Grand daughter
 (3) Great grand daughter
 (4) Great grand mother
40. If Friday falls after two days of 15th August, then what day it will be on the last day of August?
 (1) Monday (2) Tuesday
 (3) Thursday (4) Friday
41. Bimala is as old as Aruna but half as young as Fatima. Chameli is half the age of Aruna but is twice older than Divya. Which two ladies form the pair of the oldest and the youngest?
 (1) Fatima and Divya
 (2) Fatima and Bimala
 (3) Fatima and Aruna
 (4) Aruna and Divya
42. If 'a' stands for addition 'b' for subtraction, 'g' for division and 'd' for multiplication, then what does 6a7b10g5d3 stand?
 (1) 4
 (2) 5
 (3) 6
 (4) 7
43. If BACK is written as AZBJ, how is LACK written?
 (1) JZBJ
 (2) KZBJ
 (3) LZBJ
 (4) MZBJ
44. If AMERICA is coded as ckgpkac, how will GERMANY be coded?
 (1) ictkema
 (2) ictlema
 (3) ictkela
 (4) ictmopa
45. If M=13 and MAD=18 what is MADAM equal to?
 (1) 31
 (2) 32
 (3) 33
 (4) 34

Direction for question 46-55 : In each of the following squares a different rule has been followed to fill up the numbers in the nine cells. Find out the rule and supply the number in the missing place where the question mark (?) is placed from among the four given choices.

निर्देश: प्रश्न संख्या 46 से 55 तक : निम्न में प्रत्येक वर्ग के नौ (9) कोष्ठों को संख्याओं में भरने हेतु अलग-अलग नियमों का पालन किया गया है। उन नियमों को ज्ञात करते हुए प्रत्येक वर्ग में लुप्त संख्या जिसे प्रश्न चिह्न (?) से दर्शाया गया है, लिए चार विकल्पों में से चुनकर निर्देशानुसार पंक्ति कीजिए।

46.

0	-1	-2
1	0	-1
2	?	0

- (1) 1 (2) -1
(3) -2 (4) 4

47.

3	4	5
3	7	12
3	?	22

- (1) 8 (2) 9
(3) 10 (4) 11

48.

1	2	9
4	3	?
5	6	7

- (1) 5 (2) 7
(3) 8 (4) 9

49.

1	1/2	1/3
2	1	?
3	3/2	1

- (1) 1/3 (2) 1/2
(3) 2/3 (4) 1

50.

1	2	3
11	7	5
3	17	?

- (1) 15 (2) 16
(3) 17 (4) 19

51.

2	4	6
6	2	4
4	?	2

- (1) 2 (2) 4
(3) 6 (4) 8

52.

2	4	6
4	6	10
?	10	16

- (1) 2 (2) 6
(3) 10 (4) 12

53.

?	5	5
2	5	10
3	5	15

- (1) 1 (2) 2
(3) 5 (4) 0

54.

4	4	7
?	5	2
3	6	6

- (1) 5 (2) 6
(3) 7 (4) 8

55.

1	1/2	3/2
2	2/3	8/3
3	?	15/4

- (1) 1/2 (2) 2/3
(3) 3/4 (4) 4/5

Directions : Select the alternative whose alphabets when placed at the missing places, complete the chain.

56. A—cd—cda—dab—abc

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

57. ab—bca—ab—bcb—a

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

58. a—bca—bc—bcc—bc

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

59. abc—bc—acab—a—cc

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

60. d—ba—badb—dc—dcb

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

Directions for Question 61-65 : Column I in the following gives a word and column II gives its code against the word. You have to find out from amongst the four choices given for each question as to what is the corresponding code for each letter.

निर्देश: 61-65 तक के प्रश्नों के लिए : निचे column I में शब्द दिए गए हैं और column II में इन शब्दों के सामने इनके कोड दिए गए हैं। आपको प्रत्येक प्रश्न में दिए गए चार विकल्पों में से प्रत्येक अक्षर का संचादी कोड ज्ञात करना है।

Column I Column II

BALE c d m k

WORLD g j y n c

AIR k a n

SOCK h b t g

LOVER d l g c n

SALE k b c d

COIL g c h a

VOILE g c l d a

GOLF c q s g

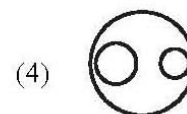
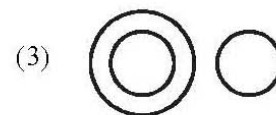
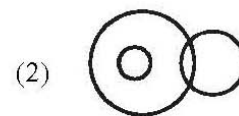
DONKEY x t d j g c

Which is the code letter for :-

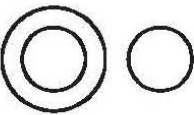
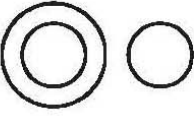
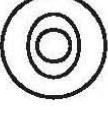

- | | (1) | (2) | (3) | (4) |
|-------|-----|-----|-----|-----|
| 61. L | c | d | e | f |
| 62. O | c | f | g | h |
| 63. V | j | k | l | m |
| 64. E | c | d | e | f |
| 65. R | k | l | m | n |

Instructions : In each of the following questions 66-70 the items are depicted by set of circles on the basis of relationship among items. Match the right set of items which corresponding set of circles. The size of circles does not matter.


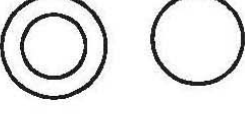
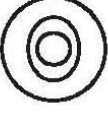
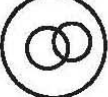
66. India : Earth : Jupiter



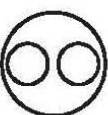
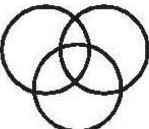
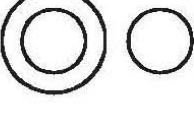

67. Alphabet : Words : Paragraph

- (1) 
- (2) 
- (3) 
- (4) 

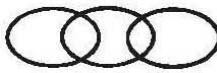
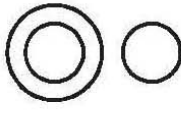
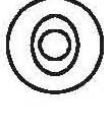

68. Natural numbers : prime numbers : even numbers

- (1) 
- (2) 
- (3) 
- (4) 

69. President : Politician : Scientist

- (1) 
- (2) 
- (3) 
- (4) 

70. Reptiles : Snake : Lizard

- (1) 
- (2) 
- (3) 
- (4) 

Directions : Questions 71-75 in the questions given below some relationships have been expressed through symbols which are defined as follows:

X stands for 'greater than'

\square stands for 'not less than'

\div stands for 'not equal to'

ϕ stands for 'equal to'

$+$ stands for 'not greater than'

Δ stands for 'less than'

Now answer the following questions:

71. if $a \times b \Delta c$, then:

- (1) $a \phi c \Delta b$
- (2) $b \square a \times c$
- (3) $a \square b + c$
- (4) $c + b \square a$

72. if $a \div b + c$, then :

- (1) $b \Delta c \times a$
- (2) $a \times c \Delta b$
- (3) $c \times b \Delta a$
- (4) $b \times a \phi c$

73. if $a \Delta b \Delta c$, then :

- (1) $a \times c \times b$
- (2) $b \square a \Delta c$
- (3) $b \times a \Delta c$
- (4) $c \times b \times a$

74. if $a + b + c$, it does not imply that :

- (1) $a \phi b \Delta c$
- (2) $c \phi b \Delta a$
- (3) $a \Delta b \Delta c$
- (4) $a \Delta b \phi c$

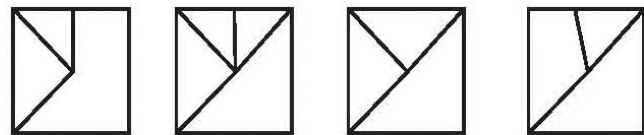
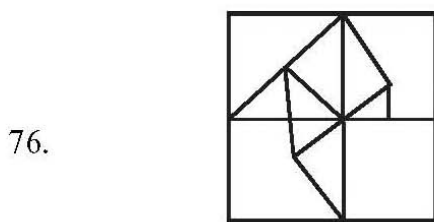
75. if $a \square b \times c$ it implies that

- (1) $a \times c + b$
- (2) $c \times b \times a$
- (3) $b \times a \times c$
- (4) $a \Delta b \square c$

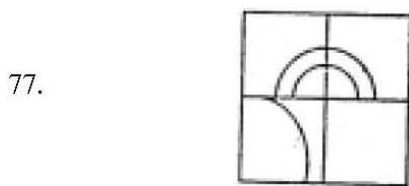
Directions : In questions 76-82, choose the correct figure to complete the pattern in the problem figure :

PROBLEM FIGURE

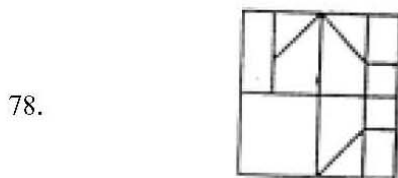
ANSWER FIGURES



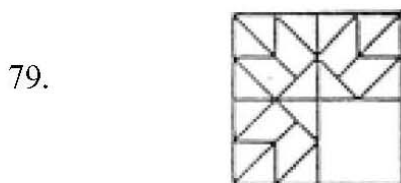
- (1)
- (2)
- (3)
- (4)



- (1)
- (2)
- (3)
- (4)



- (1)
- (2)
- (3)
- (4)

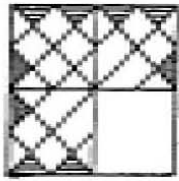


- (1)
- (2)
- (3)
- (4)



- (1)
- (2)
- (3)
- (4)

81.



(1)



(2)

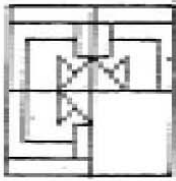


(3)



(4)

82.



(1)



(2)



(3)



(4)

Directions : In questions 83-92, select the answer figure which completes the given figure series.

FIGURE SERIES

ANSWER FIGURES

83.



(1)



(2)



(3)



(4)

84.



(1)



(2)



(3)



(4)

85.



(1)



(2)

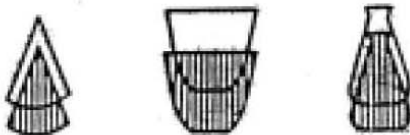


(3)



(4)

86.



(1)



(2)



(3)



(4)

87.



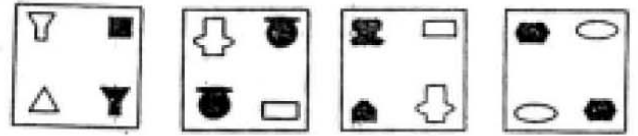
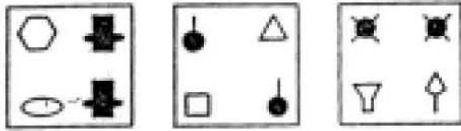
(1)

(2)

(3)

(4)

88.



(1)

(2)

(3)

(4)

89.



(1)

(2)

(3)

(4)

90.



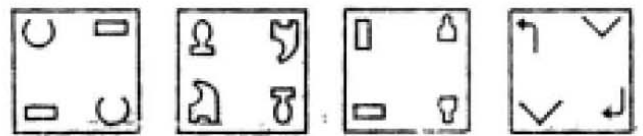
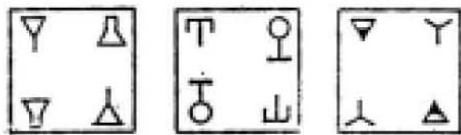
(1)

(2)

(3)

(4)

91.



(1)

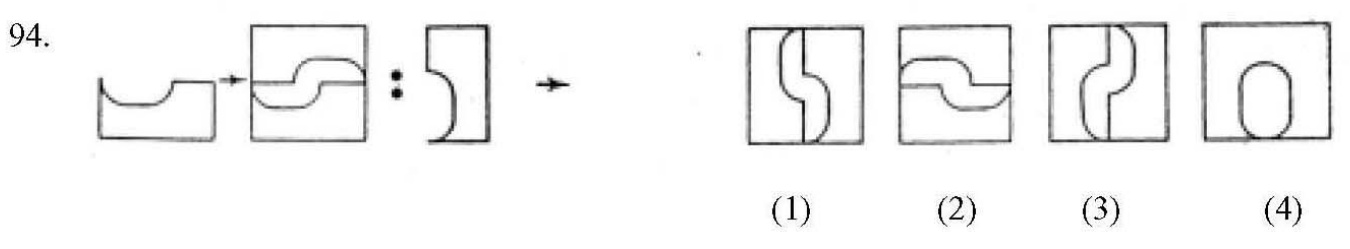
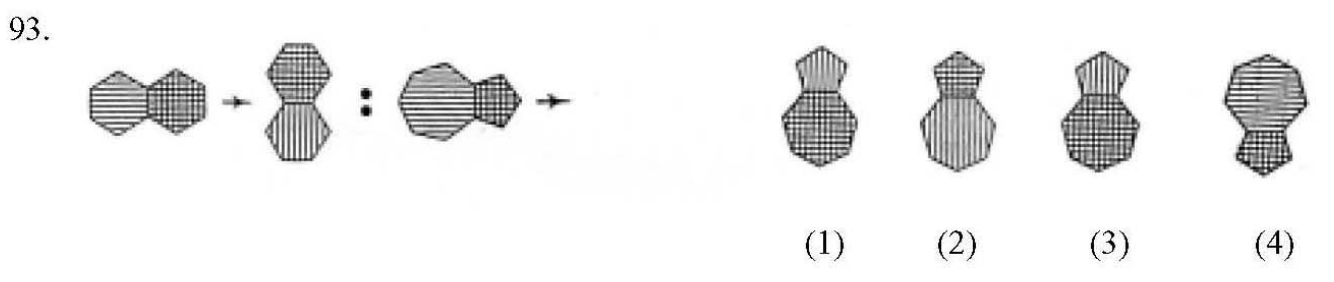
(2)

(3)

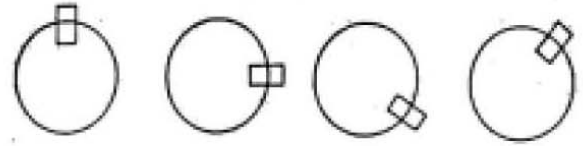
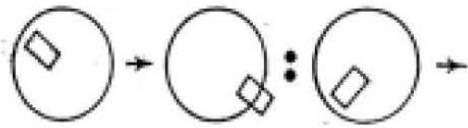
(4)



Directions : In questions 93-100, select the answer figure which has the same relationship to the third figure which is between the first two figures on the left of :

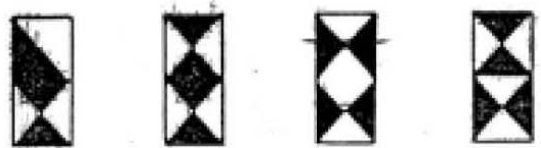


97.



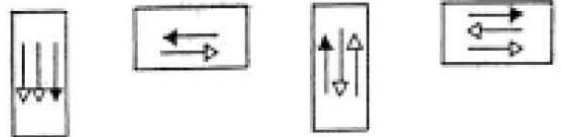
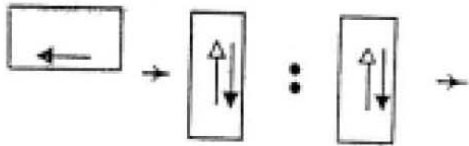
(1) (2) (3) (4)

98.



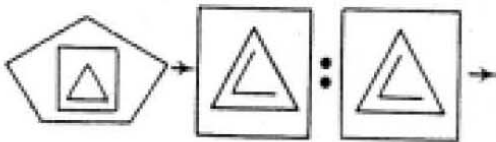
(1) (2) (3) (4)

99.



(1) (2) (3) (4)

100.



(1) (2) (3) (4)