TCS APTITUDE PAPERS

(VERBAL + LOGICAL + QUANTITATIVE + REASONING + + Antonyms + Synonyms)

TCS Aptitude Paper

SECTION 1: VERBAL

COMPREHENSION HAD SIX QUESTIONS.SO HAD FILL IN THE BLANKS.FORMER WAS A VERY BORING PASSAGE.FILL IN HAD A PASSAGE WITH SIX SENTENCES IN BETWEEN TO BE FILLED WITH EIGHT CHOICES GIVEN.ALL STUDENTS HAD DIFFERENT PASSAGES.THE DATABASE IS VERY LARGE.FOR FILL IN GRE BOOK IS RECOMMENDED.
MOST OF THEM WERE NOT ABLE TO UNDERSTAND THE PASSAGE.

I HAVE GIVEN BELOW THE WORDS THAT WERE ASKED IN **SYNONYMS AND ANTONYMS.**

1. WHIMSICAL
2. CENSURE.
3. OPTIMUM.
4. MISAPPREHENSION.
5. CANDID.
6. TORSE.
7. CITE.
8. EFFUSIVE.
9. IRRADIATE.
10. TENACIOUS.
11. VOLUBLE.
12. BANAL.
13. RUPTURE.
14. STANDING.
15. NASCENT.
16. TRANSIENT.
17. CLUTCH.
18. GENERIC.
19. EMPIRICAL.
20. ANOMALY.
21. CIRCUITOUS.
22. HAMPER.
23. SURVEILLANCE.

24. OBJECTIVE.
25. RAUCOUS.
26. VORACIOUS.
27. PEDIGREE.
28. FIDELITY.
29. AUGMENT.
30. PRECARIOUS.
31. TRANSIENT.
32. ALACRITY.
33. DEROGATORY.
34. ONUS.
35. ANALOGUE.
36. EXPEDIENT.
37. ANALOGOUS.
38. ASSUAGE.
39. COMPLIANCE.
40. IRRADIATE.
41. DIFFIDANT.
42. PLAINTIVE.
43. INCINUATE.
44. MISDEMEANOR.
45. EXONERATE.
46. GREGARIOUS.
47. ANATHEMATIZE.
48. BENIGN.
49. ATTENUATE.
50. SONOROUS.
51. BOLSTER.
52. DIVERGENT.
53. DECOLLATE
54. HETERODOX
55. RESTIVENESS
56. IGNONIMOUS.
57. PLAGARIOUS.
58. EFFIGY.
59. TENACIOUS.
60. RETROGADE.
61. SACROSANCT.
62. DANGLE.
63. ANOMALY.
64. CRYPTIC.
65. DEBILIATE.
66. DIVULGE.

67. SCEPTIC.
68. SPENDTHRIFT.
69. INDIGENOUS.
70. ERRONIUS.
71. RUPTURE.
72. MINION.
73. VERACITY.
74. QUAIL.
75. DESULTORY.
76. SAGE.

SECTION 2: QUANTITATIVE AND LOGICAL REASONING.

MOST OF THE QUESTIONS WERE FROM TCS OLD PAPERS.
THE QUESTIONS WILL BE OF THIS PATTERN TO EVERYONE. ONLY THE DATA GETS CHANGED.

1. In a two-dimensional array, X (9, 7), with each element occupying 4 bytes of memory, with the address of the first element X (1, 1) is 3000, find the address of X (8, 5).
2. In the word ORGANISATIONAL, if the first and second, third and forth, forth and fifth, fifth and sixth words are interchanged up to the last letter, what would be the tenth letter from right?
3. What is the largest prime number that can be stored in an 8-bit memory?
4. Select the odd one out. a. Java b. Lisp c. Smalltalk d. Eiffel.
5. Select the odd one out a. SMTP b. WAP c. SAP d. ARP
6. Select the odd one out a. Oracle b. Linux c. Ingress d. DB2
7. Select the odd one out a. WAP b. HTTP c. BAAN d. ARP
8. Select the odd one out a. LINUX b. UNIX c. SOLARIS d. SQL SEVER
9. Select the odd one out a. SQL b. DB2 c. SYBASE d. HTTP
10. The size of a program is N. And the memory occupied by the program is given by M = square root of 100N. If the size of the program is increased by 1% then how much memory now occupied?
11. A man, a woman, and a child can do a piece of work in 6 days. Man only can do it in 24 days. Woman can do it in 16 days and in how many days child can do the same work?
12. In which of the system, decimal number 384 is equal to 1234?
13. Find the value of the 678 to the base 7.

14. Number of faces, vertices and edges of a cube
15. Complete the series 2, 7, 24, 77,__
16. Find the value of @@+25-++@16, where @ denotes "square" and + denotes "square root".
17. Find the result of the following expression if, M denotes modulus operation, R denotes round-off, T denotes truncation: M(373,5)+R(3.4)+T(7.7)+R(5.8)
18. If TAFJHH is coded as RBEKGI then RBDJK can be coded as ---------
19. G(0)=-1, G(1)=1, G(N)=G(N-1) - G(N-2), G(5)= ?
20. What is the max possible 3 digit prime number?
21. A power unit is there by the bank of the river of 750 meters width. A cable is made from power unit to power a plant opposite to that of the river and 1500mts away from the power unit. The cost of the cable below water is Rs. 15/- per meter and cost of cable on the bank is Rs.12/- per meter. Find the total of laying the cable.
22. The size of a program is N. And the memory occupied by the program is given by M = square root of 100N. If the size of the program is increased by 1% then how much memory now occupied?
23. In Madras , temperature at noon varies according to $-t^2/2 + 8t + 3$, where t is elapsed time. Find how much temperature more or less in 4pm to 9pm.
24. The size of the bucket is N kb. The bucket fills at the rate of 0.1 kb per millisecond. A programmer sends a program to receiver. There it waits for 10 milliseconds. And response will be back to programmer in 20 milliseconds. How much time the program takes to get a response back to the programmer, after it is sent?
25. A man, a woman, and a child can do a piece of work in 6 days. Man only can do it in 24 days. Woman can do it in 16 days and in how many days child can do the same work?
26. If the vertex (5,7) is placed in the memory. First vertex (1,1) ?s address is 1245 and then address of (5,7) is ----------
27. Which of the following are orthogonal pairs? a. 3i+2j b. i+j c. 2i-3j d. -7i+j
28. If VXUPLVH is written as SURMISE, what is SHDVD?
29. If A, B and C are the mechanisms used separately to reduce the wastage of fuel by 30%, 20% and 10%. What will be the fuel economy if they were used combined.
30. What is the power of 2? a. 2068 b.2048 c.2668
31. Complete the series. 3, 8, --, 24, --, 48, 63
32. Complete the series. 4, -5, 11, -14, 22, ---
33. A, B and C are 8 bit no?s. They are as follows:
A 1 1 0 1 1 0 1 1
B 0 1 1 1 1 0 1 0
C 0 1 1 0 1 1 0 1
Find ((A-B) u C)=?
Hint :

A-B is {A} ? {A n B}

34. A Flight takes off at 2 A.M from northeast direction and travels for 11 hours to reach the destination which is in north west direction. Given the latitude and longitude of source and destination. Find the local time of destination when the flight reaches there?

35. A can copy 50 papers in 10 hours while both A & B can copy 70 papers in 10 hours. Then for how many hours required for B to copy 26 papers?

36. A is twice efficient than B. A and B can both work together to complete a work in 7 days. Then find in how many days A alone can complete the work?

37. A finish the work in 10 days. B is 60% efficient than A. So how days does B take to finish the work?

38. A finishes the work in 10 days & B in 8 days individually. If A works for only 6 days then how many days should B work to complete A?s work?

39. Given the length of the 3 sides of a triangle. Find the one that is impossible? (HINT : sum of smaller 2 sides is greater than the other one which is larger)

40. Find the singularity matrix from a given set of matrices?(Hint det(A)==0)

41. A 2D array is declared as A[9,7] and each element requires 2 byte. If A[1,1] is stored in 3000. Find the memory of A[8,5] ?

42. Sum of slopes of 2 perpendicular st. lines is given. Find the pair of lines from the given set of options which satisfy the above condition?

43. (a) 2+3i (b)1+i (c) 3-2i (d) 1-7i .Find which of the above is orthogonal.

44. (Momentum*Velocity)/(Acceleration * distance) find units.

45. The number 362 in decimal system is given by (1362)x in the X system of numbers find the value of X a}5 b) 6 c) 7 d) 8 e) 9

46. Given $ means Tripling and % means change of sign then find the value of $ %$6-%$%6

47. My flight takes of at 2am from a place at 18N 10E and landed 10 Hrs later at a place with coordinates 36N70W. What is the local time when my plane landed. a) 6:00 am b) 6:40am c)7:40 d)7:00 e)8:00 (Hint : Every 1 deg longitude is equal to 4 minutes . If west to east add time else subtract time)

48. Find the highest prime number that can be stored in an 8bit computer.

49. Which of the following set of numbers has the highest Standard deviation?
1,0,1,0,1,0
-1,-1,-1,-1,-1,-1
1,1,1,1,1,1
1,1,0,-1,0,-1

50. Match the following:
1. Male - Boy ---> a. A type of
2. Square - Polygon ---> b. A part of
3. Roof - Building ---> c. Not a type of
4. Mushroom - Vegetables ---> d. A superset of

Ans: 1- d, 2- a, 3- b, 4- c

51. Match the following.

1. brother ? sister ---> a. Part of
2. Alsatian ? dog ---> b. Sibling
3. sentence ? paragraph ---> c. Type of
4. car - steering ---> d. Not a type of

Ans. 1-b, 2-c, 3-a, 4-d

*****Remaining Questions were from Graph, pie charts, Bar chart and Venn diagram which were very easy.

SECTION 3: CRITICAL REASONING

(BRM ?LOGICAL REASONING PACKAGE WILL BE VERY HELPFUL)

I.The players G,H,J,K,L,M,N,O are to be felicitated of representing the county team in Baseball Out of these H,M,O also are in the Football team and K,N are there in the Basket ball team . These players are to be seated on a table and no two players who has represented the county in more than one game are to sit together.

1.Which one of the orders can they be seated in

2. Which of the orders is not possible

3. If N is seated in the middle then which of the following pairs cannot be seated near him .

4. If M is seated then which of the following pairs can be seated next to him.

Choices are given for all the questions

II There are 2 groups named Brown and red. They can?t marry in the same group. If the husband or wife dies then the person will convert to their own group. If a person is married then the husband will have to change his group to his wife?s group. The child will own the mothers group. From these a set of 4 questions were given .Solve them

Eg;

1.Brown?s daughter is red (False)

2. If a person is red. Then his/her mother?s brother belong to which group if he is married (Brown)

III 7 people ? a,b,c,d,e,f,g

Need to make a seating arrangement for them.

Conditions: 1)A should be at the center 2) B,F should be at the right extreme
3)C,E always in pair 4)D,G as far as possible

Questions from the above were asked?

Eg:
Which of the following pairs were not possible?

Others questions were similar to the above. More questions were from Barrons.

HR QUESTIONS:

For all the questions they expect a elaborate answer with justifications and not a short one.
1) Market urself
2) Why TCS ?
3) Will u switch over to any other company after joining TCS? If NO then why?
4) R u mobile? (R u ready to go anywhere ?)
5) R u ready to go to places of extreme temperature. If yes what do u think of ur safety?
6) What are the requirements for leadership quality ?
7) Why u switch over to s/w from ur own back ground?
8) What are the qualities required for a s/w engineer and Project manager?
9) Rate ur good qualities?
10) What is the difference between hard and smart work?
11) Do u have a plan of doing higher studies ?

TCS Aptitude test :

1.if the word 'ddosszm' is changed to 'central' then what will be the change for 'rtjbl' ?
ans:quick
2.what is the largest prime number in 8 digit number?
3.the word unimpressive was given.they asked us to do change 1st & 2nd,3rd & 4th,so on.then they asked what will be 10th letter from right?
ans:m
4.the plane question was asked.it took off from 7 degree 53' 6.1'' and landed at 8 degree 6' 43.5''.it takes 12 hours to travel between these points.then what will

be local time at destination ?[just follow previous ques paper the problem was same]

5.g[0]=1,g[1]=-1,g[n]=2*g[n-1]-3*g[n-2] then calculate g[4]= ?

6.the series was asked : 5,6,7,8,10,11,14,..?

7.they asked the temperature problem.it was same as previous papers.the ratio was -t*t/6+4t+12.

8.the ques on a man,a woman and a boy finish work together in 6 days.man takes 10 days,woman takes 24 days then how much boy will take?
ans:40 days

8.the matrix of a(7,9) was given.the address of the first byte of a(1,1)=1258.it takes 4 bytes to store the nuymber.then calculate the address of the last byte of a(5,8).

9.the program requires 4000(n)1/2 [ie square root of n].if size of program was increased by 1% then calculate the percentage change in size of program.

10.modulo(373,7)+round(5.8)+truncat(7.2)-round(3.4) = ?
i exactly don't remember the truncate function.but the function was where we skip the '.' part.
ans : 12

11.the bucket size is 10KB.it takes 0.0001 KB/milisec to fill bucket.the bucket takes 100 or 1000 milisec to reach to destination.it takes 100 milisec to pass acknowledgement from dest to source.so calculate how much time will it take to pass N KB ,write formula.
[i don't remember the exact figures of bucket transmission time from source to dest]

12.the graph was given.the x and y axes were there.the line is intersecting them.the points of intersection were y=3,x=0 and x=-2,y=0.write the equation of line.

13.the decimal number was given.it was converted to other system.they asked to identify the
system.i.e. octal,hexadecimal.

14.they asked us to match the pairs.they were like,
A B
basmati-wheat not type of

15.the paragraph was given.it was on associations and the example of lecturer was there in para.

SECTION I

1. If VXUPLVH is written as SURMISE, what is SHDVD ?
Ans. PEASA (hint: in the first
word, the alphabets of the jumbled one is three

alphabets after the corresponding alphabet in the word SURMISE. S = V-3, similarly find the one for SHDVD)

2. If DDMUQZM is coded as CENTRAL then RBDJK can be coded as ---------
Ans. QCEIL (hint: Write both the jumbled and the coded word as a table, find the relation between the corresponding words, i.e C= D-1, N=M+1 & so on

3. In the word ECONOMETRICS, if the first and second , third and forth ,forth and fifth, fifth and sixth words are interchanged up to the last letter, what would be the tenth letter from right?
Ans. word is CENOMOTEIRSC tenth word is R

4. Find the result of the following __expression if, M denotes modulus operation, R denotes round-off, T denotes truncation: M(373,5)+R(3.4)+T(7.7)+R(5.8)
Ans. 19

5. What is the largest prime number that can be stored in an 8-bit memory?
Ans.
6. Find the physical quantity in units from the equation: (Force*Distance)/(Velocity*Velocity)
Ans. Ns2/m
7. Find the value of @@+25-++@16, where @ denotes "square" and + denotes "square root".
Ans: 621

8. If f(0)=1 and f(n)= f(n-1)*n, find the value of f(4).
Ans: 24

9. Convert the decimal number 310 to the base 6.
Ans: 1234

10. Find the missing number in the series: 2, 5, __ , 19 , 37, 75
Ans: 9

11. In a two-dimensional array, X(9,7), with each

element occupying 4 bytes of memory, with the address of the first element X(1,1) is 3000, find the address of X(8,5).
Ans.

12. Find the fourth row, having the bit pattern as an integer in an 8-bit computer, and express the answer in its decimal value.
A 0 0 0 0 1 1 1 1
B 0 0 1 1 0 0 1 1
C 0 1 0 1 0 1 0 1
(AU(B-C)) ?
Ans. 29

13. Complete the series 2, 7, 24, 77,__ (hint: 2*12= 24, 7*11= 77, therefore 24*10= 240)
Ans: 240

14. Consider the following diagram for answering the following questions:

A. Find the difference between people playing cricket and tennis alone.
Ans: 4

B. Find the percentage of people playing hockey to that playing both hockey and cricket.
Ans:

C. Find the percentage of people playing all the games to the total number of players.
Ans: 6%

15. One more question of the same type (Same type of diagram; of course in a different set)

1. How many more or less speak English thanFrench?

2. What % people speak all the three languages?

3. What % people speak German but not English?

{In another set cricket, hockey and tennis are changed
with the name of some computer languages, such as
Java, Cobol, Fortran (may be some other name)}

16. Select the odd one out
a. Oracle b.
Linux c. Ingress
d. DB2

17. Select the odd one out
a. SMTP b. WAP
c. SAP
d. ARP

18. Select the odd man out.
a. Java b.
Lisp c. Smalltalk
d. Eiffel

19. Which of the following are orthogonal pairs?
a. 3i+2j
b. i+j c. 2i-3j
d. -7i+j

20. Number of faces, vertices and edges of a cube
a. 12,8,6
b. 4,6,8 c. 6,8,12
d. 6,12,8

21. Given a Bar Chart showing the sales of a company.
(In Figure) The sales in years as shown in the figure
are (in crores) 1998-1999 - 130, 1997-1998 - 90,
1996-1997 - 90, 1995-1996 - 70

1. The highest growth rate was for the year
Ans. 1998-1999

2. The net increase in sales of the company in the
year span of 1995-1999
Ans. 60 crores.

3. The lowest growth rate was for the year
Ans. 1997

22. Find the value of the decimal number to the base
7.
Ans. 1436.

23. Complete the series:5,6,7,8,10,11,14,__.
Ans. 15

24. If the vertex (5,7) is placed in the memory. First
vertex (1,1) ?s address is 1245 and then address of
(5,7) is ----------
Ans.

25. In which of the system, decimal number 384 is
equal to 1234?
Ans.

26. A man, a woman, and a child can do a piece of work
in 6 days. Man only can do it in 24 days. Woman can do
it in 16 days and in how many days child can do the
same work?
Ans.

27. In Madras , temperature at noon varies according to
-t^2/2 + 8t + 3, where t is elapsed time. Find how
much temperature more or less in 4pm to 9pm.
Ans.

28. The size of the bucket is N kb. The bucket fills
at the rate of 0.1 kb per millisecond. A programmer
sends a program to receiver. There it waits for 10
milliseconds. And response will be back to programmer
in 20 milliseconds. How much time the program takes to
get a response back to the programmer, after it is
sent?
Ans.

29. The size of a program is N. And the memory
occupied by the program is given by M = square root of
100N. If the size of the program is increased by 1%

then how much memory now occupied ?
Ans.

30. A power unit is there by the bank of the river of
750 meters width. A cable is made from power unit to
power a plant opposite to that of the river and
1500mts away from the power unit. The cost of the
cable below water is Rs. 15/- per meter and cost of
cable on the bank is Rs.12/- per meter. Find the total
of laying the cable.
Ans. Rs. 22,500 (hint: the plant
is on the other side of the plant i.e. it is not on
the same side as the river)

{There are two questions, both showing a curve. In the
first one, you have to identify the curve. In the
second one you have to Write the equation of the
curve. In }

SECTION II

1. If A can copy 50 pages in 10 hours and A and B
together can copy 70 pages in 10 hours, how much time
does B takes to copy 26 pages?
a. b.
c. d.

2. Match the following:
1. Male - Boy --->
a. A type of
2. Square - Polygon ---> b.
A part of
3. Roof - Building --->
c. Not a type of
4. Mushroom - Vegetables ---> d.
A superset of
Ans: 1- d, 2- a, 3- b, 4- c

3. Match the following.
1. brother ? sister --->
a. Part of
2. Alsatian ? dog --->
b. Sibling

3. sentence ? paragraph ---> c.
Type of
4. car - steering --->
d. Not a type of
Ans. 1-b, 2-c, 3-a, 4-d

Questions 20- 24 are based on the following passage:
The office staff of the XYZ
corporation presently consists of three bookkeepers
(A, B and C) and five secretaries (D, E, F, G and H).
Management is planning to open a new office in another
city using three secretaries and two bookkeepers of
the current staff. To do so they plan to separate
certain individuals who do not function well together.
The following guidelines were established to set up
the new office:
I. Bookkeepers A and C are
constantly finding fault with one another and should
not be sent as a team to the new office.
II. C and E function well alone but
not as a team. They should be separated.
III. D and G have not been on
speaking terms for many months. They should not go
together.
IV. Since D and F have been competing
for promotion, they should not be a team.
Ans.

4. If A is to be moved as one of the bookkeepers,
which of the following cannot be a possible working
team?
(a) ABDEH (b) ABDGH
(c) ABEFH (d) ABEGH (e) ABFGH

5. If C and F are moved to the new office, how many
combinations are possible?
(a) 1 (b) 2
(c) 3 (d) 4
(e) 5

6. If C is sent to the new office, which member of the
staff cannot go with C?
(a) B (b) D

(c) F (d) G
(e) H

7. Under the guidelines developed, which of the
following must go to the new office?
(a) B (b) D
(c) E (d) G
(e) H

8. If D goes to the new office which of the following
is (are) true?
I. C cannot go.
II. A cannot go.
III. H must also go.
a. I only. b. II only.
c. I and II only. d. I and III only.
e. I, II and III.

9. Two stations A & B are 110 km apart. One train
starts from A at 7 am, and travels towards B at
20kmph. Another train starts from B at 8 am and
travels towards A at 25kmph. At what time will they
meet?
a. 9 am b. 10 am
c. 11 am d. 10.30 am

10. If a man can swim downstream at 6kmph and upstream
at 2kmph, his speed in still water is:
a. 4kmph b. 2kmph
c. 3kmph d. 2.5kmph

Answer the following three questions based on the
paragraph:
A student applying at a college should take three
courses. There are altogether four courses, namely,
Science, Maths, Social Sudies and Economics. (The
names may vary, but the pattern is the same)
One can take a Science course onty if he has taken a
Maths course.
One can take a Maths course only if he has taken a
Science course.
One can take a n Economics course only if he has taken
a Social Studies course.

11. Which of the following is a possible course?
a. Two Science courses and a Social
Studies Course.
b. Two Maths courses and an Economics
course.
c. One Mats course, one Science course and
a Social Studies course.
d. One Maths course, one Science course
and an Economics course.

12. Which of the following courses a student can take?
I. One Science, one Social Studies,
one Economics
II. Two Science, one Social Studies
III. Two Science, one Maths.
a. I only
b. III only c. I and II only
d. II and III only

13. Which of the following is not a possible course?
a. Two Science courses and a Maths course.
b. Two Maths course and a
Science course.
c. One Maths course, one Science course
and a Social Studies Course.
d. One Maths course, one Science course
and an Economics course.

Synonyms:

Pillage ? steal , loot , plunder
Cleft - split , crack
Incesment ?
Brazen - bold , shameless
Awry - skewed , twisted , crooked
Remiss ? careless , negligent
Defection - desertion
Ensue - follow
Avid - keen , eager
Rupidiate Repudiate - reject,deny
Gauche - clumsy, vulgar

Intrinsic - essential
Gaudy ? flashy , showy
Hidebound ? narrow minded
Incognitent -
Intermittent ? irregular,broken
Clastrophobia - fear
Contraband ? illegal trade
Pagm concealed rapt
Voracious ? avid,hunger,greedy
Seedy ? sleazy,seamy
Omniscience ? knowing all
Diatribe ? attack,criticism
Slack - loose, relaxed
Felicitous ? fortunate,luck
Relish ? enjoy,savor
Aloofness ? unfriendliness, remoteness
Ambiguity - unknown
Pattry
Baleful ? threatening, malevolent
Odium ? hatred, disgust
Lapidarian
Gambol - skip
High handed ? dominant,imperious
Retrospection - perception
Antithe
Pagan
Genuflect ? kneel,bow
coerce ? force,compel
Indubitably ? undoubtedly, certainly
Extraneous ? irrelevant , unrelated
Corpulent ? fat,pump
Transient ? momentary
Spurious ? false,fake
Whimsical - fancy
Braggadocio -
Chimerical
Callow ? inexperience,naive
Menial ? unskilled,boring
Indigenous ? native,original
Ambiguity
Foil ? frustrate,halt

Antonyms:

Awry
Consensus * disagreement
Retrograde * forward looking
Galleon
Chide * praise
Depravity * goodness,righteousness
Paradox * consistency
Stilted * natural
Levity * gravity
Fritty
Genry