

TCS

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 $M = \text{square root of } 100N$. 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 $M = \text{square root of } 100N$. 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 $(A-B) \cup C$ =?
- Hint :
 $A-B$ is $\{A\} - \{A \cap B\}$
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 $\det(A) \neq 0$)
 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. $(\text{Momentum} \times \text{Velocity}) / (\text{Acceleration} \times \text{distance})$ 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 off 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 an 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 ?

Technical Questions :

General :

The questions were different for different persons and depends on the field of interest that u say.

Communication :

- 1) OSI Layers in n/w with the functionalities
- 2) TCP/IP protocol
- 3) Bridges, Routers, LAN, WAN, MAN
- 4) Token bus, FDDI, Ethernet

C Language :

- 1) Datastructures esp :Linked list and trees
- 2) Structures , unions, Kind of variables (local ,Global)
- 3) Strrev() program
- 4) Case structure (it is not the usual switch case stat)
- 5) Calloc,malloc
- 6) Divide 2 number and print the o/p (NOTE: Check for divide by zero error)

PSYCHOMETRY TEST

Direction:

In this section you will find different questions with the same meaning. In all such questions your answer has to be same. for e.g.:

In being thrown by chance with a stranger, you wait for the person to introduce himself or herself.

- (a) Yes (b) No (c) ?

It is difficult for you to chat about things in general with people.

- (a) Yes (b) No (c) ?

These two questions have similar meanings. If you answer the first one 'NO' and the second one 'YES', i.e. if you differ in your answers to similar questions you lose marks for every question with the above meaning.

The choices to these questions are:

- (a) Yes.
- (b) No.
- (c) ?

1. You start to work on a project with great deal of enthusiasm.
2. You would rather plan an activity than take part in it.
3. You have more than once taken lead in organizing project or a group of some kind.
4. You like to entertain guests.
5. Your interests change quickly from one thing to another.
6. When you eat a meal with others, you are usually one of the last to finish.
7. You believe in the idea that we should "eat, drink and be merry, for tomorrow we die."
8. When you find that something you have bought is defective, you hesitate to demand an exchange or a refund.
9. You find it easy to find new acquaintances.
10. You are sometimes bubbling over with energy and sometimes very sluggish.
11. You are happiest when you get involved in some projects that calls for rapid action.
12. Other people think of you as being very serious minded.
13. In being thrown by chance with a stranger, you wait for the person to introduce himself or herself.
14. You like to take part in many social activities.
15. You sometimes feel "just miserable" for no good reason at all.
16. You are often so much "on the go" that sooner or later you may wear yourself out.
17. You like parties you attend to be lively.
18. If you hold an opinion that is radically different that expressed by a lecturer, you are likely to tell the person about it either during or after the lecture.
19. It is difficult for you to chat about things in general with people.
20. You give little thought to your failures after they are passed.
21. You often wonder where others get all the excess energy they seem to have.
22. You are inclined to stop to think things over before you act.
23. You avoid arguing over a price with a clerk or sales person.
24. You would dislike very much to work alone in some alone place.
25. You often find it difficult to go to sleep at night because you keep thinking of what happened during the day.
26. You find yourself hurrying to get to places even when there is plenty of time.
27. You like work that requires considerable attention to details.
28. You are satisfied to let some one else take the lead in group activities.
29. You enjoy getting acquainted with people.
30. It takes a lot to get you emotionally stirred up or excited.
31. You work more slowly and deliberately than most people of your sex and age.
32. You are a carefree individual.
33. When people do not play fair you hesitate to say anything about it to them.
34. It bothers you to have people watch you at your work.
35. You have usually been optimistic about your future.
36. You like to have plenty of time to stop and rest.
37. You take life very seriously.
38. You enjoy applying for a job in person.
39. You would like to be a host or hostess for parties at club.
40. You often feel uncomfortable or uneasy.
41. You are the kind of person who is "on the go" all the time.
42. You often crave excitement.
43. The thought of making a speech frightens you.
44. You find it easy to start conversation with strangers.
45. You often feel guilty without a very good reason for it.
46. People think you are a very energetic person.
47. You sometimes make quick decisions that you later wish you hadn't made.
48. You find it difficult to ask people for money or other donations, even for a cause in which you are

interested.

49. You are so naturally friendly that people immediately feel at ease with you.
50. You daydream a great deal.
51. You are quick in your actions.
52. You have a habit of starting things and then losing interest in them.
53. When you were a child many of your playmates naturally expected you to be the leader.
54. You sometimes avoid social contacts for fear of doing or saying the wrong thing.
55. You have frequent ups and downs in mood, sometimes with and sometimes without apparent cause.
56. You always seem to have plenty of vigour and vitality.
57. It is difficult for you to understand people who get very concerned about things.
58. When a clerk in a store waits on others who come after you, you call his or her attention to the fact.
59. You would be very unhappy if you were prevented from making numerous social contacts.
60. There are times when your future looks very dark.
61. You sometimes wish that people would slow down a bit and give you a chance to catch up.
62. Many of your friends think you take your work too seriously.
63. You hesitate to walk into a meeting when you know that everyone's eye will be upon you.
64. You limit your friendships mostly to members of your own sex.
65. You almost always feel well and strong.
66. You seem to lack the drive necessary to get as much as other people do.
67. You make decisions on the spur of the moment.
68. You are rather good at bluffing when you find yourself in difficulty.
69. After being introduced to someone , you just cannot think of things to say to make good conversation.
70. You feel lonesome even when with other people.
71. You are able to work for unusually long hours without feeling tired.
72. You often act on the first thought that comes into your head.
73. At the scene of an accident, you take an active part in helping out.
74. You have difficulty in making new friends.
75. Your mood often changes from happiness to sadness or vice versa without knowing why.
76. You talk more slowly than most people.
77. You like to play practical jokes upon others.
78. You take the lead in putting life into a dull party.
79. You would like to belong to as many clubs and social organizations as possible.
80. There are times when your mind seems to work very slowly and other times when it works very rapidly.
81. You like to do things slowly and deliberately.
82. You are a happy-go-lucky individual.
83. When you are served stale or inferior food in a restaurant, you say nothing about it.
84. You would rather apply for a job by writing a letter than by going through with a personal interview.
85. You are often in low spirits.
86. You are inclined to rush from one activity to another without pausing enough for rest.
87. You are so concerned about the future that you do not get as much fun out of the present as you might.
88. When you are attracted to a person whom you have not met earlier you make an active attempt to get acquainted even though it may be quite difficult.
89. You are inclined to limit your acquaintances to select few
90. you seldom give your past mistakes a second thought.

91. You are less energetic than many people you know.
92. You often stop to analyze your thoughts and feelings.
93. You speak out in meetings to oppose those whom you feel sure are wrong.
94. You are so shy it bothers you.
95. You are sometimes bothered by having a useless thought come into your mind over and over.
96. You get things in hurry.
97. It is difficult for you to understand how some people can be so unconcerned about the future.
98. You lie to sell things (i.e. to act as a sales person)
99. You are often "Life of the Party".
100. You find daydreaming very enjoyable.
101. At work or at play other people find it hard to keep up with the pace you set.
102. You can listen to a lecture without feeling restless.
103. You would rather work for a good boss than for yourself.
104. You can express yourself more easily in speech than in writing.
105. You keep in fairly uniform spirits.
106. You dislike to be hurried in your work.
107. You sometimes find yourself "crossing bridges before you come to them".
108. You find it somewhat difficult to say "no" to a sales person who tries to sell you something you do not really want.
109. There are only a few friends with whom you can relax and have a good time.
110. You usually keep cheerful in spite of trouble.
111. People sometimes tell you to "slow down" or "take it easy".
112. You are one of those who drink or smoke more than they know they should.
113. When you think you recognize people you see in a public place, you ask them whether you have met them before.
114. You prefer to work alone.
115. Disappointment affects you so little that you seldom think about them twice.
116. You are slow and deliberate in movements.
117. You like wild enthusiasm, sometimes to a point bordering on rowdiness at a football or baseball game.
118. You feel self-conscious in the presence of important people.
119. People think of you as being a very social type of person.
120. You have often lost sleep over your worries.
121. You can turn out a large amount of work in a short time.
122. You keep at a task until it is done, even after nearly everyone else has given up.
123. You can think of a good excuse when you need one.
124. Other people say that it is difficult to get to know you well.
125. You daydreams are often about things that can never come true.
126. You often run upstairs taking two steps at a time.
127. You seldom let your responsibility interfere with your having a good time.
128. You like to take on important responsibilities such as organizing a new business.
129. You have hesitated to make or to accept "dates" because of shyness.
130. Your mood is very easily influenced by people around you.
131. Others are often amazed by the amount of work you turn out.
132. You generally feel as though you haven't a care in the world.
133. You find it difficult to get rid of sales person whom you do not care to listen or give your time.
134. You are a listener rather than a talker in a social conversation.
135. You almost always feel that life is very much worth living.
136. It irritates you to have to wait at a crossing for a long freight train to pass.
137. You usually say what you feel like saying at the moment.
138. You like to speak in public.

139. You like to be with people.
140. You generally keep cool and think clearly in exciting situations.
141. Other people regard you as a lively individual.
142. When you get angry, if you let yourself go, you feel better.
143. You seek to avoid all trouble with other people.
144. People seem to enjoy being with you.
145. You sometimes feel listless and tired for no good reason.
146. It is hard to understand why many people are so slow and get so little done.
147. You are fond of betting on horse races and games, whether you can afford it or not.
148. If someone you know has been spreading untrue and bad stories about you, you see the person as soon as possible and have a talk about it.
149. Shyness keep you from being as popular as you should be.
150. You are generally free from worry about possible misfortunes.

PSYCHOMETRY GROUPING

I have grouped the psychometric questions numbering 150. as it is not possible for me to write each question I am indicating only the numbers. Its up to u to correspond to the questions

At the outset I would like to clearly state that this version has no guarantee to be the correct version. Actually some 30/150 questions fall in to many groups and the line differentiating them is very thin. I have tried my best to group them.

Talking about the groups- they are 11 in number. As I have mentioned- this is not the only correct version- but this can be one. So if u feel u can group them more finer u can subdivide them in to many more.

I would advise u strictly to go through the whole set of groups and define urselves- the key to psychometric test is to define who u are and then start looking in to deeply the questions.

Each group represents a character or personality- u will decide which of the following attributes u would like to include in ur personality.

GROUP 1 LEADERSHIP QUALITIES

2 3 28 39 53 73 103 128

GROUP 2 SOCIABLE NATURE

4 9 13 14 24 29 44 49 54 59 64 70 74 79 88 89 109 114 119 139

GROUP 3 BALANCED PSYCHE people who are balanced- not wavery in their moods etc.. etc...

5 10 15 16 35 40 41 45 52 55 60 65 75 80 95 105 130 145 148

GROUP 4 DAYDREAMERS

50 100 107 125

GROUP 5 PATIENCE AND ATTRIBUTE OF TAKING RISKY DECISIONS AFTER CAREFUL ANALYSIS

22 27 47 67 72 86 92 96 102 112 117 126 134 136 137 140 142 147

GROUP 6 EASYGOING AND CAREFREE NATURED PERSONALITIES

6 20 25 32 57 68 77 82 87 90 98 115 123 127 132 135 150

GROUP 7 ENTHUSIASTIC PERSONALITIES

1 17 42 66 78 85 99 110 141 144

GROUP 8 SLOW SLUGGISH DULL PERSONALITIES

7 11 21 30 31 36 46 51 56 61 76 81 91 106 116 101 146

GROUP 9 SERIOUS PERSONALITIES

12 26 37 62 97 111 120 124 143

GROUP 10 STRONG FULL OF ENERGY

71 121 122 131

GROUP 11 DIFFIDENT (shy, not able to ask even the most required thing..... etc..)

8 18 19 23 33 34 38 43(34) 48 58 63(34) 69 83 84(38) 93 104(34) 108 113
118(34) 129 133 149

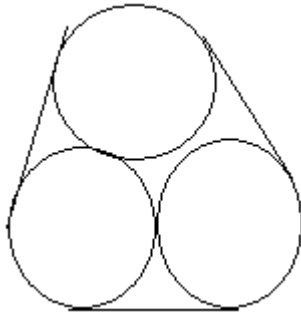
read the following before proceeding

1. the last group is bigger and within the group itself a small subgrouping is done- the no. in the bracket is the parent question to which the no outside the bracket belongs to- hope u understand
2. strictly- this may not be 100 % right as many questions look very similar. So go thru and make alterations if u feel so.
3. in each groups there r 2 kinds of questions- if u say yes to some and no to others u will land up at the same definition. So its ur common sense to understand the affirmative and negative tones of each question and answer accordingly- u shld know when to answer no and yes for each question in the same group-
4. some groups itself are opposite to each other and can be grouped together- but I have separated them on the basis of finer inferences eg:- serious persons cant be easy going type. if u say no to any question on serious group question u will land as an easygoing personality and vice versa- so they can be put under a single group- but some finer points prevent from doing so

ALL THE BEST

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1)



Diameter of circle is d , Find length of string.(outer string that covers the circle)

Ans: $d(\pi + 3)$

2) Diamond's value is proportional to its weight². When the diamond broke into pieces in ratio 1:2:3:4:5.

Total loss in value is 85,000. What is the value of the diamond twice the wt of the original diamond.

Ans : 45,000

3) Person X joins a job at 20 yrs. First 3 years sal = 10,000 p.a. Afterwards every year inc of 2,000 per year for 10 years. Then sal becomes const till retirement. At retirement avg sal is 25,000. (thru'out career) what age he retires.?

4) In an island there are r tribals who speak lang of at most 4 words. Lang consists of 4 alphabets. How many words can be formed in that language? Ans 340

5) It was found that the cause for the malaria was the swamp marsh and so the swamps were drained. Mosquito the real cause for malaria due to lack of breeding grounds (Swamps) also was wiped out. What does this illustrate?

(Ans : (Possible) when many conditions form a result eradication of one cause also eradicates the result)

6) An officer kept files on his table at various times in the order 1,2,3,4,5,6. Typist can take file from top whenever she has time and type it. What order she can't type.?

(Ans : 4,5,6,2,3,1)

7) A and B are fighting. B fires 3 times as many missiles as A. Total hits: total misses = $1/7$. B's misses 357. B's hits - A's hits = 66. A's hits?

8) 40 shots taken. 50p for a hit. 10p for a miss. (he has to give). Finally he has Rs.5. How many hits? Ans 15

9) Find avg of a, b, c, d, e . Given data : avg of any 4 num = avg of any 3 num $2(a+b)^2 = 36$

Which of the above are sufficient?

10) What is the difference in times between clock 1 & clock 2.

- 1) both show same time 6 hrs back 2) 1 clock gains 1 min an hr, clock 2 gains 2 min an hour.
Like above....

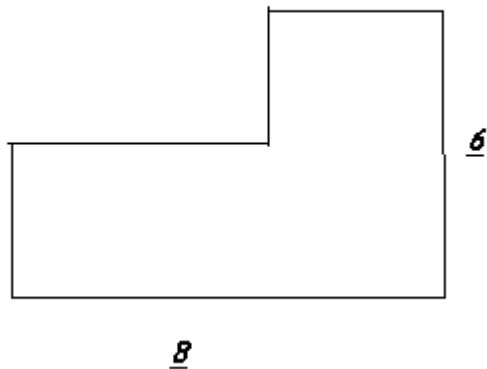
11) A takes 9 strides to B's 7 strides. A stride = 1 meter. B stride = 1.2m B gets the start of 24m. What distance should A travel to overtake B?

12) Tortoise gets 100 m head start. Hare is 10 times faster than tortoise. What is the distance traveled by hare to catch up tortoise?

13) 4 weights are weighed in pairs. Weights of pairs are determined as 103, 105, 106, 106, 107, 109. What is the minimum weight?
Ans 51

14) Constant cost = 300
and 1.75 / copy. How many copies should he sell at 7.75 / copy to make a profit.

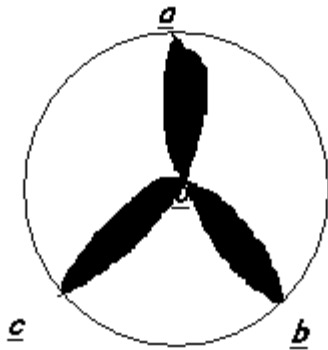
15)



Find the perimeter ? Ans 28

16) 20 members avg = 10.5. 3 members of 11.5, 12.5, 13.5 left and 3 members of 10.5, 12.5, 14.5 joined along with a teacher of 21 yr. Now avg = Ans 11.

17)



Find the area of shaded. Radius of circle = 1cm.....Arcs r drawn with center at circumference.

18)



Find the area of the shaded portion?

- 19) Solid cube of $6 * 6 * 6$. This cube is cut into to 216 small cubes.($1 * 1 * 1$).the big cube is painted in all its faces. Then how many of cubes are painted at least 2 sides. (Ans 56)
- 20) A Bacteria is doubling at every 4 min. After 40 min 1024 bact. Then 256 when>.....?
Ans : 32 min
- 21) A bag contains 3 balls of 11 different colors each. Find the min no of chances to find at least 3 balls of same color?
Ans : 23
- 22) If $x^2 < 4$ then $100/x$ is....? Ans : $100/x > 50$ & $100/x < -50$.

- 23) If $[x]$ is the int less than x and $|x|$ is the abs val of x . Then max of $[x]/|x|$ is Ans
d) none
- 24) A work in 12 days b in 15 days. Find the no of days if they work on alternate days.
Ans $13\frac{1}{4}$
- 25) A,B,C r positive int. Out of them 2 r odd. Then $5^{2a} + (b-5)^3 (c-3)^2 = ?$ Ans : always odd.
- 26) A squarer side is 5cm. If a square of side 10cm is hinged @ the center of the prev square. when they r rotated common area to both squares (Ans : Does not change)
- 27) $3p^2 + pq + 5q^2$ is even. If
a) If p is odd, q is odd
b) If p is even, q is odd
c) If p is odd, p is even
d) Atleast one of p and q is odd.

Choices are given. Ans : 4) None of these

- 28) A lady has to feed a dog for the one week from Monday to Sunday .She has food types M,N,O,P,Q,R,S .

MNOP \rightarrow protein enriched RS \rightarrow vitamin enriched. Vitamin enriched cannot be fed on consecutive days.

Conditions given : M should be fed before S.

M should be fed before Q.

R Should be fed before S.

Before N and Q there should be four types.

Based on this 3 ?s are asked. All r easy to answer...

- 29) A man bought at the cost of 5 plums a rupee and 2 oranges a rupee. He sells 10 plums and 6 oranges at the selling price of 4 plums a rupee and 3 oranges a rupee. What is his gain or loss? Ans loss of 50p.
- 30) Out of 32 books the cost of 10 books is Rs. 50 each and he got a profit of 4%. He sells 15 books at a profit of 3.8461% on the selling price of Rs 70. The remaining cost is 576. The remaining books are sold at Rs 74. What is his total profit.
- 31) Two solutions have milk & water in the ratio 7:5 and 6:11. Find the proportion in which these two solutions should be mixed so that the resulting solution has 1 part milk and 2 parts water?
a) 35:3 b) 21:36 c) not possible Ans : c

Further qs are from reading comprehension. (verbal reasoning) All are easy to answer if u read carefully.

We are not able to get the remaining questions.