

Latest Sample Placement Paper Of CTS For Year-2009-10 (Reasoning, English)

1. In a certain code language the word DISTURB is written as DTWVUKF. How will the word FRANTIC be written in that code language?

- 1) EKUPDTH
- 2) FKCPVTH
- 3) EKVPCTH
- 4) FLVPCTH
- 5) None of these

2. If 'A \$ B' means 'A is brother of B', 'A @ B' means 'A is wife of B', 'A #B' means 'A is daughter of B' and 'A * B' means 'A is father of B', then which of the following expressions indicates the relationship 'U is father-in-law of P'?

- 1) P@Q\$T#U*W
- 2) P@W\$Q*T#U
- 3) P@Q\$W*T#U
- 4) P@Q\$T#W*U
- 5) None of these

3. Six friends A, B, C, D, E and F joined an institute in the year 1993 but on different days. Only E has joined after C and D. C joined immediately before A and immediately after B. F is not the first or the last person to join.

Who is the first person joining the Institute?

- 1) D
- 2) B
- 3) A
- 4) Data inadequate
- 5) None of these

(Q. 4-9): Study the following information carefully and answer the questions given below it:

1) Six boys B1, B2, B3, B4, B5, B6, and six girls C1, C2, C3, C4, C5, and C6 are standing in rows in such a way that each girl faces one boy, not necessarily in the same order.

2) C1 is to the immediate right of the girl who is facing B5, the boy at the extreme right. Only B2 is between B4 and B5.

B6 is to the immediate left of B1 and is to the immediate right of B3. C3 is facing B1 and is to the immediate left of C2.

C6 is third to the left of C4.

4. Which of the following girls is facing B4?

- 1) C5
- 2) C4
- 3) C3
- 4) C6

5) None of these

5. Which of the following pairs of boy and girl is at one of the extreme ends?

- 1) C1, B5
- 2) C4, B5
- 3) C5, B2
- 4) Data inadequate
- 5) None of these

6. Which of the following boys is to the immediate left of B4?

- 1) B1
- 2) B2
- 3) B1 or B2
- 4) Data inadequate
- 5) None of these

7. Who is facing C2?

- 1) B1
- 2) B6
- 3) B4
- 4) Data inadequate
- 5) None of these

8. In a certain language 'go for morning walk' is written as '\$*?#', 'good for health' is written as '??@', and good to walk fast' is written as '+@?#', then what is the code for 'health' in that language?

- 1) ?
- 2) ?
- 3) #
- 4) +
- 5) None of these

9. In a certain code language „ROUTINE" is written as 'VMRGFLI'. How will 'CRUELTY' be written in that code language?

- 1) VPVCZRL
- 2) VPCVZRL
- 3) WPCVZRL
- 4) VOCVZRL
- 5) None of these

Directions (Q. 10-16): Read the following informations carefully and answer the questions given below:

- (i) Saurav and Sachin go to stadium and school.
- (ii) Rahul and Yuvraj go to health club and college.
- (iii) Ramesh and Rahul go to theatre and health club.
- (iv) Yuvraj and Saurav go to college and school.
- (v) Sachin and Ramesh go to theatre and stadium.

10. Name the boy who goes to health club, stadium and theatre.

- 1) Yuvraj
- 2) Ramesh
- 3) Saurav
- 4) Rahul
- 5) Sachin

11. Name the boy who goes to stadium, college and school.

- 1) Ramesh
- 2) Saurav
- 3) Rahul
- 4) Sachin
- 5) Yuvraj

12. Name the boy who goes to school, college and health club.

- 1) Yuvraj
- 2) Sachin
- 3) Saurav
- 4) Rahul
- 5) Ramesh

13. Name the boy who goes everywhere except theatre.

- 1) Saurav
- 2) Yuvraj
- 3) Ramesh
- 4) Sachin
- 5) None of these

14. Which of the following statements is true?

- 1) Yuvraj does not go to stadium or health club.
- 2) Sachin does not go to college or theatre.
- 3) Rahul does not go to stadium or school.
- 4) Ramesh does not go to college or stadium.
- 5) Saurav does not go to college or theatre.

15. A man pointing to a lady says, "Her brother is the father of my only son's sister." How is that lady related to the man?

- 1) Sister
- 2) Niece
- 3) Daughter
- 4) Granddaughter
- 5) None of these

16. How many 6's are there in the following number series which are immediately followed by 7 but not immediately preceded by 3?

2 6 7 3 4 6 7 2 3 6 7 6 5 2 7 6 3 9 8 6 7 1 3 6 5

- 1) Two
- 2) Three
- 3) Four

- 4) Five
- 5) None of these

17. Which of the following words contains all the five vowels?

- 1) VERIFICATION
- 2) PUBLICATION
- 3) RECALCULATION
- 4) Both (2) and (3)
- 5) All of the above

Directions (Q. 18-22): Given below are five sentences, ie A), B), C), D) and E). Arrange them in proper order so as to form a meaningful paragraph and then answer the following questions.

A) It assumes incorrectly that the amount of business activity in an economy is fixed.

B) Since that time, productivity in agriculture has increased tremendously.

C) It is tempting to conclude that if productivity increases, then employment must go down.

D) In fact, if workers are available, entrepreneurs can match them with new business ideas and investment capital and thus increase the total amount of business activity in an economy.

E) After all, 200 years ago virtually all people who could work worked in agriculture.

18. Which sentence will come at 'second' place in the paragraph?

- 1) A
- 2) B
- 3) C
- 4) D
- 5) E

19. Which sentence will come at 'last' place in the paragraph?

- 1) E
- 2) D
- 3) C
- 4) B
- 5) A

20. Which will be the 'first' sentence in the paragraph?

- 1) A
- 2) B
- 3) C
- 4) D
- 5) E

21. Which will be the 'fourth' sentence in the paragraph?

- 1) E
- 2) D
- 3) C
- 4) B
- 5) A

22. Which sentence will come at 'third' place in the paragraph?

- 1) B
- 2) D
- 3) A
- 4) E
- 5) C

Directions (Q. 23-25): In each of the following sentences there are two blank spaces. Below each sentence there are five pairs of words denoted by numbers 1), 2), 3), 4) and 5). Find out which pair of words can be filled up in the blanks in the same sequence to make it meaningfully complete.

23. The party has itself to _____ for failing in its basic task of addressing people's _____.

- 1) punish, concerns
- 2) penalise, woes
- 3) bear, anxieties
- 4) blame, problems
- 5) introspect, duties

24. The serial has been _____ aspirants from _____ the society.

- 1) tantalising, over
- 2) attracting, across
- 3) haunting, amidst
- 4) eulogising, among
- 5) gathering, above

25. Despite illiteracy, the _____ of Indian voters have already demonstrated their political _____.

- 1) mood, hobnob
- 2) bulk, collousness
- 3) multitude, maturity
- 4) reflection, taste
- 5) mass, differences

ANSWERS : 1. (3) 2. (1) 3. (2) 4. (4) 5. (5) 6. (1) 7. (2) 8. (1) 9. (2) 10. (2) 11.(2) 12. (1) 13. (5) 14. (3) 15. (1) 16.(2) 18. (1) 17.(3) 19. (4) 20. (3) 21. (1) 22. (2) 23. (4) 24. (2) 25. (3)

Cognizant (CTS) 2010 batch Recruitment Process and Question Paper



Cognizant (CTS) batch 2010 recruitment process and question papers are provided here to help the vtu college students in their campus placements. The questions will be posted in the body of this article itself.

If you want to download it then click on the pdf icon under the title of this article and you can save it on your computer.

The selection process consists of two rounds

- (1) Written test
- (2) Technical + HR round

Written test consists of three sections

VERBAL SECTION (25 questions-25min)

- (1-10) comprehension (passages r too long)
- (11-15) find the incorrect sentences
- (16-20) find the correct sentences
- (21-25) arrange the jumbled sentences

This is a quiet tough section. Just make guesses. Mark option B or C. Always read passage at last. Read questions first.

ANALYTICAL SECTION (25 questions-30min)

(1-5) Venn diagram

A group is divided into three. The first group is persons of 5'6 height and second and third r 6'0 and 6'6 respectively. There r totally 130 peoples, 50 of them r 5'6 and 65 of them r 6'6, 10 of them r 5'6 and 6'6, 15 of them r 5'6 and 6, 20 of them r 6'6 and 6, and 5 of them r all the three.

- (1) How many of them r 6 feet? (Ans 70)

(2) How many of them r only 6 feet? (Ans 30)

(3) How many of them are only 5"6? (Ans 20)

(4) How many of them are only 6"6? (Ans 30)

(5) How many of them are at least two? (Ans 50)

Important formula in Venn diagram is

EXACTLY ONE = TOTAL - EXACTLY TWO - ALL THREE

(6-10) quantitative questions

Questions on Blood relations(quite difficult)

Other questions r from profit loss and other general questions. Sorry I don't remember

(11-15) data sufficiency--Very easy one

(16-20) binary conversion

Please don't read anything in the question. Just change any value to binary and convert that 1 to \$ and 0 to *.

(Eg) LCM of (12 15 10) (ans 60 = 111100 = \$\$\$**)

(21-25) cubes

Questions like :if a dice is thrown 2 on top,3&5 at left &right,in another turn 5 on top,3&4 at left&right and one another condition(dont remember exactly)

21-25 What is opposite to 5?.....

NON VERBAL SECTION (20 questions-20 min)

(1-4) syllogism (study all rules in the aggarwal book but TIME book will help u a lot)

(Eg) All mosquitoes" are lizards.

All lizards are insects.

(Ans: all mosquitoes" are insects)

(5-6) logical deduction (study all rules from TIME book)

(7-15) figure sequence and odd one out from figures (very easy)(just go through R S Agarwal)

(16-17) Seating arrangement

(18-20) logical puzzle

After two hours the sortlist was declared by them .I was almost sure that I would be clearing the aptitude.

HR + TECHNICAL INTERVIEW (please write carefully your HR form)

Be confident at the time of interview and maintain smile on your face.Firstly i was tensed bcoz my technical was not so good & all the panelyst were MTech. Elect. from IIT.

INTERVIEWER: Hello Akshay!

Me: Good Afternoon Sir.

INTERVIEWER: Good afternoon.Please be sittid.

Me: Thank you, Sir .

INTERVIEWER: Tell me about yourself?

Me: Told(academic).....Apart from studies bckgrnd I am also a good sportsman .I led under 14 cricket team of latur district and got runner -up prize for Kho-Kho cometition.

INTERVIEWER: Are you a player of your college team?

Me: No Sir,Only last year students are allowed to play in the team.

INTERVIEWER: Were you a part of your college's annul social gathering sports?

Me: Yes Sir, I was captain of the T.E Trical Cricket team.

INTERVIEWER: What role did you play in it?

Me: I was the opening batsman and also the WC in team who has responsibility of heading the team.

INTERVIEWER: What do you expect from CTS?

Me: My whole knowledge and skills should be utilised by CTS.There should be great environment.

INTERVIEWER: Have you appeared for TCS and Infy.?

Me: No,Sir.Waiting for CTS.

INTERVIEWER: Why CTS?

Me: As it is world's fastest growing company it is growing exponentially, I am also fast in my life.CTS and My principles match exactly,that's why CTS.

INTERVIEWER: As you are fast, tell me five things about microprocessor very fast

Me: Told.....confidently and surely but fastly

INTERVIEWER: Tell me 5 applications of OP-AMP?

Me: Told....(they check confidence)(when i gave 3 he said 1 just for checking confidence.

INTERVIEWER: Which is your favourite subject?

Me: Power System

INTERVIEWER :I have conducted interview of 5 electrical student all have same favourite subject ,Why?

Me: I don't know about them but as per my opinion everything in Power system is visible lively.

INTERVIEWER: What is skin effect,corona.....?Have you seen it?

Me: Explained ..

INTERVIEWER: What did you get from Linear Control Systems?

Me: Answered..

INTERVIEWER: Do you have any question?

Me: Sir,I have one more year to complete my course What do you expect me to do in thisone year to fit into CTS

INTERVIEWER: If selected no need to do anything.You just be cleared with your basics.

Me: Thank You, Sir

INTERVIEWER: Wait for the result.

Me: Thank You,Sir and HAPPY HOLI

SET 2

Total attended = 1,333

Cleared Written = 238

Selected = 28(15 boys 13 girls)

It was a shock that they selected only 28 from 1,333 and I'm really happy that I am one among that few.

Two Rounds:

1. Written test.

2. Interview. (Tech n HR)

The Merit Track conducted the test. It was organized perfectly and they expect discipline from us.. Before the test u have to fill a form. Do it carefully because some of my friends got questions 4m tat.

1. Software Orientation:

2. Hobbies and extra-curricular activities

3. Strengths and Weakness

4. Expectation from CTS

5. Why CTS

6. Long term and short-term goal with CTS

7. What are the qualities necessary for software professional to be successful

WRITTEN TEST (3 sections) NO -VE MARKING

1. Analytical Ability (25 Q, 30 Minutes)

Venn diagram questions

Data sufficiency

coding 1 represented as \$ and 0 as *(easy.. jus convert it into Binary)

Cubes related questions are very important

My suggestion is do Coding First. Then Venn dig. Cube problem n others..u can surely score full marks fm coding n venn dig...cube is also easy when u understand it. For

cube take the cubic root of the no of pieces. 64 means 4(keep as x value)..then 2 side painted means $12*(x-2)$. 1 side painted means $6*(x-2)$ 2 . (horizontal n vertical) like wise u must think n apply according to the question..

1. venn dig- people hving dif heights 6feet ,6"6 feet, 5"5 feet. and questions like no of people who is 6 feet. no of people who is 5"5feet.....

2. In coding there will be only normal arithmetic operations n L.c.m..i don remember them.

For ex.. $64/4=16=2^{****}$.first solve it n convert it to binary..

3.Cube- a cube of 12 cm is cut into small 3cm pieces..then place another 4 small cubes over it..and another 2 small cubes over the 4cubes..then again one more cube over the 2 cube...the cube is then painted from top to bottom

$12/3=4$...so 4row 4column...draw a dig of cube first. Imagining the cube only help u to solve rather than formulas. How many cubes r painted on only one side?

how many cubes r painted on only 2 sides?

how many cubes r painted on only 3 sides?

how many cubes r painted on only 4 sides?

how many cubes r painted 0 sides?

(my friends told me tat cube problems hav more marks than other questions)

2.Verbal Ability (20 Q, 20 Min)

Comprehension

Find out the incorrect sentence

Find out the correct sentence

Jumbled Passages

-Don prepare any thing for this .It won help u..Jumbled sent n correct incorrect sent are a little confusing..it depends on ur grammer n English language skills. do the comprehension last(it is a very big passage..i didn't even read it ,jus ticked..no time)

3.Attention Details (20 Q, 20 Min)

Find the odd man out

Analogy of figures (Simple)

syllogism

Puzzle

Very easy compared to other sections..any one can crack it with out any preparation..If u think to prepare jus go through puzzle test n syllogism from R.S.Agarwal Verbal reasoning

Analogy of figures –Non verbal Reasoning

Interview:

Next Day My interview was at 4 .00 p.m.I was really exhausted at tat time in waiting from morning. 9 panels (approx 25 each). I went into the interview hall. He was reading something.

Me: Good Evening sir..

He: (raised his head).Good eve.Sit down

Me: Thank u sir

He: again he started to read something.after 10 sec he asked "So u are Uma"

Me: yes sir

He: Tell me smthing abt urself

Me: said.

He: Tell abt ur project

Me: Told abt the theme of project ,modules n everything I know.(as I m in the start of my final sem I don know my project in depth)

He: wat language

Me: C n Java

He: So,wat r u doing ,wat is ur part in that.

Me: (told frankly)Sir as I m in the start of my final sem I know only the concept.We are having one more month to complete it. So we are still learning things abt our project.

He: k...(great relief for me).. u hav put tat u know C n C++.

Me: Yes sir

He: Tell abt Object Oriented Programming

Me: Tld abt inheritance, abstraction, Encapsulation, polymorphism....

He: Tell all those things with an example program.

Me: (Be Confident in whatever u say.. Even though u fear don show it in ur face)
Explained him all with examples... he interrupted me thrice and asked questions frm wat I said.

He: wat is Overloading and overriding...with eg program

Me: Explained it with program

He: wat is operator n function overloading its diffe

Me: Explained

He: wat is virtual ,Inline..

Me: Explnd (I bcame happy as I answd al of them..but my happiness didn't last much time)

He: k...Listen Carefully..I will give u a situation...(Oh!GodSave me).In a college Library they contain a set of books..and all the books are different..many professors will take those book now and then.. the books come from various places and he kept on saying...(I couldn't understand al tat he said) tell wat concept of inheritance u implement in this situation..

Me: Multiple Inheritance...(tld quickly)

He: hmm...Wat is the base n derived class in it..

Me: Base class-Book....Derived class- professors

He: wat is the relation n wat details each class contains....

Me: Base class contains the details of bookID,Authour...derived class contains the details abt professors...who hav last taken it.. date of return...and said something more abt the relations(not sure ...)

He: questioned from wat I said... I answered two more questions..it was difficult. So I started to think...

He: K...(Stoppd my thinking)..wat is ur goal n wat do u want to become

Me: I want to become a senior s/w engineer and must have learnt so many things in my way of it...

He: hmm..Wat is the method

Me: it is a function-block of code etc....

HE: Why v have to use it.. wat is the reason

Me: reduces complexity..if the pgm is like a paragraph it is not easy for user to understand...reduces length.. reusability...blah..blah..

He: k...write the declaration of an array of pointer.

Me: did

He: K, apart frm ur curriculm hav u dne anyting in computer science

Me: yes sir I hav dne paper presentation in Cryptography

He: tell abt it

Me: this is easy for me...I explained.

He: k..that"s al the questions from my side...Do u want to ask me any thing

Me: how many months we will be provided the training..

He: answered and asked "If u are placed means are u comfortable to work in chennai" (tat is the clue tat I m placed..I got excited tat I m going to get selected)

ME: Yes sir I"m very much Comfortable to work there...

He: k..thank you

Me: Thank u so much sir.....

Set 3

1. A says " the horse is not black".

B says " the horse is either brown or grey."

c says " the hoese is brown"

At least one is telling truth and atleast one is lying. tell the colour of horse.

Answer : grey

2. A son and father goes for boating in river upstream . After rowing for 1 mile son notices the hat of his fathe falling in the river.

After 5min. he tells his father that his hat has fallen. So they turn around and are able to pick the hat at the point from where they began boating

after 5min.

Tell the speed of river.

Ans...6 miles/hr

3 $A+B+C+D=D+E+F+G=G+H+I=17$ where each letter represent a number from 1 to 9. Find out what does letter D and G represent if letter $A=4$.

(8 marks)

ans. D=5
G=1

4. Argentina had football team of 22 player of which captain is from Brazilian team and goalki from European team. For remainig palayer they have picked 6 from argentinan and 14 from european. Now for a team of 11 they must have goalkeeper and captain so out of 9 now they plan to select 3 from argentinian and 6 from European. Find out no. of methods available for it (2 marks)

Ans : 160600(check out for right no. $6C3 * 14C6$)

5 Three thives were caught stealing sheep, mule and camel.

A says " B had stolen sheep "

C says " B had stolen mule"

B says he had stolen nothing.

the one who had stolen horse is speaking truth. the one who had stolen camel is lying . Tell who had stolen what? (5 marks)

ans. A- camel
B- mule
C- horse

6 a group of friends goes for dinner and gets bill of Rs 2400 . Two of them says that they have forgotten their purse so remaining make an extra contribution of Rs 100 to pay up the bill. Tell the no. of person in that group. (3 marks)

Ans - 8 person

7. In acolony there are some families. Each of them have children but different in numbers.Following are conditions

a no of adult no of sons no of daughters no of families.

b each sister must have atleast one brother and should have at themost 1 sister.

c no of children in one family exceeds the sum of no of children in the rest families.

Tell the no of families.(5 marks)

ans : 3 families

8. There are 6 people W,H,M,C,G,F who are murderer , victim ,

judge , police, witness, hangman. There was no eye witness only circumtancial witness. The murderer was sentenced to death.
Read following statement and determine who is who.

1. M knew both murderer and victim.
2. Judge asked C to discribe murder incident.
3. W was last to see F alive.
4. Police found G at the murder site.
- 5 H and W never met.

(8 marks)

The above mentioned questions are of 37 marks

[durgajobs.com](http://www.durgajobs.com)

Paper: CTS Campus Placement Paper (Aptitude Section)

1. A starts from a place at 11.00 A.M. and travels at a speed of 4 kmph, B starts at 1.00 P.M. and travels with speeds of 1 kmph for 1 hour, 2 kmph for the next 1 hour, 3 kmph for the next 1 hour and so on. At what time will B catch up with A?

- a) 9.24 b) 9.32 c) 9.48 d) none

2. The average temperature of Monday to Wednesday was 37C and of Tuesday to Thursday was 34C. If the temperature on Thursday was $\frac{4}{5}$ th of that of Monday, the temperature on Thursday was

- a) 36.5C b) 36C c) 35.5C d) 34C

3. Swetha and Chaitanya went to a bookshop. Swetha purchased 5 pens, 3 note books and 9 pencils and used up all her money. Chaitanya purchased 6 pens, 6 note books and 18 pencils and paid 50% more than what Swetha paid. What % of Swethas money was spent on pens?

- a) 12.5 b) 62.5 c) 75 d) cant be determined.

Directions for Questions 4,5,6.

Alex, Bond, Calvin and Dorna collected coins of different countries.

- a. They collected 100 altogether
- b. None collected less than 10
- c. Each collected an even no.
- d. Each collected a different no.

4. Based on the above, we can say that the no. of coins collected by the boy who collected the most could not have exceeded

- a) 54 b) 64 c) 58 d) 60

5. If Alex collected 54 coins, we can say (on the basis of information obtained so far) that difference in nos. collected by the boy who collected the most and the boy who collected the 2nd most should be at least

- a) 30 b) 34 c) 26 d) 12

6. Alex collected 54 coins. If Calvin collected 2 more than double the no. collected by Dorna, the no. collected by Calvin was

- a) 10% b) 30% c) 22% d) 26 %

7. How many nos. are there between 100 and 200 both inclusive and divisible by 2 or 3?

- a) 67 b) 68 c) 84 d) 100

8. Find the greatest no. that will divide 964,1238 and 1400 leaving remainder of 41,31 and 51 resp.

- a) 58 b) 64 c) 69 d) 71

9. If all 6's get inverted and become 9's, by how much will the sum of all nos. between 1 and 100 both inclusive change?

- a) 300 b) 330 c) 333 d) none of these

10. If all the picture cards are removed from a pack of cards, the sum of the values of the remaining is

- a) 55 b) 220 c) 54 d) 216

11. What is the min. no. of weighing operations required to measure 31 kg of rice if only one stone of 1 kg is available?

- a) 31 b) 6 c) 5 d) 16

12. The ratio of the no. of white balls in a bag to that of black balls is 1:2. If 9 grey balls are added the ratio of nos. of white, black and grey become 2:4:3. How many black balls were in the bag?

- a) 6 b) 9 c) 12 d) 8

13. There are 2 toy cars facing each other at a distance of 500 cm from each other. Each car moves forward by 100 cm at a speed of 50 cm/s and then moves backward by 50 cm at a speed of 25 cm/s. How long will it take for the cars to collide?

- a) 12s b) 14s c) 16s d) 13s

14. It takes 8, 12 and 16 days for A,B and C resp. to complete a task. How many days will it take if A works on the job for 2 days then B works on it until 25% of the job is left for C to do, and C completes the work?

- a) 10 days b) 14 days c) 13 days d) 12 days

15. A and B run in opposite directions from a pt. P on a circle with different but constant speeds. A runs in clockwise direction. They meet for the first time at a distance of 900 m in clockwise direction from P and for the second time at a distance of 800 m in anticlockwise direction from P. If B is yet to complete one round, the circumference of the circle is

- a) 1700m b) 1250m c) 1300m d) 1200m

16. Bird A starts flying from P to Q at 9.00 A.M. and bird B starts flying from Q to P at 10.00 A.M. B is 50% faster than A. What is the time at which they meet if P and Q are 300kms apart and A's speed is 50kmph.

- a) 12 noon b) 12.30pm c) 11.30am d) 11.00am

17. There are 6 cities, of which each is connected to every other city. How many different routes can one trace from A to B, such that no city is touched more than once in any one route

- a) 48 b) 60 c) 65 d) 72

18. In a group of 80 coins, exactly one is counterfeit and weighs less than the others. U are provided a scale to weigh to coins. The min. no. of weightings req. to determine the counterfeit coin is

- a) 4 b) 1 c) 5 d) none of these

Directions for questions 19 to 23

Mark a if the ans. Can be obtained using 1 and 2 independently

Mark b if the ans. Can be obtained by using only one of the two statements.

Mark c if the ans. Can be obtained by using both statements 1 and 2 but not either of them alone.

Mark d if the ans. Cannot be obtained by using 1 and 2

19. What is the selling price of product X

1. Profit as a % sales is 10%, cost price is Rs.27
2. Profit as % sales is 20%, cost price is Rs.20

20. Find the perimeter of the rear wheel of a cart

1. When the cart moves 5m, the rear wheel moves R rotations less than the front wheel.
2. The radius of the rear wheel is 3 times that of front wheel.

21. Is $a-b+c > a+b-c$. a, b, c are integers.

1. b is negative
2. c is positive

22. What is the distance from Mumbai to Nagpur?

1. Driving at 90kmph I reach Nagpur 1 hr earlier than if I were to drive at 80kmph.
2. Driving at 100kmph I covered 40% of the distance in 7 hrs.

23. What is the age of father and the son?

1. The ratio of their ages is 5:3 now and will be 3:2 in 10 years.
2. The sum of their ages now is 80, and 5 years ago the ratio was 9:5.

24. A cube of 12cm sides is painted red on each side. It is cut into cubes of 3cm side each. How many of

the smaller cubes do not have any side painted red?

- a) 8 b) 12 c) 16 d) 0

CTS Exam on 15th Dec 2010

Aptitude Test

Questions = 70; time limit = 70 minutes. Correct answer carry one mark and wrong answer carry 0.25 marks. Offline (paper & pen) test.
Verbal section (25 questions-25min)

Directions for Questions 1-5: Read the passage and answer the questions that follow on the basis of the information provided in the passage. Work expands so as to fill the time available for its completion. The general recognition of this fact is shown in the proverbial phrase, It is the busiest man who has time to spare. Thus, an elderly lady at leisure can spend the entire day writing a postcard to her niece. An hour will be spent in writing a postcard, another hunting for spectacles, half an hour to search for the address, an hour and a quarter in composition and twenty minutes in deciding whether or not to take an umbrella when going to the pillar box in the street. The total effort that could occupy a busy man for three minutes, all told may in this fashion leave another person completely exhausted after a day of doubt, anxiety and toil.

1. What happens when the time to be spent on some work increases?

- A) the work is done smoothly. B) the work is done leisurely.
C) work consumes all the time.
D) The work needs additional time.

Ans: C

2. Explain the sentence: 'Work expands so as to fill the time available for its completion'.

- A) The more work there is to be done, the more time needed.
B) whatever time is available for a given amount of work, all of it will be used.
C) If you have more time you can do some work.
D) If you have some important work to do, you should always have some additional time.

Ans: B

3. Who is the person likely to take more time to do work.

- A) a busy man. B) a man of leisure. C) an elderly person. D) an exhausted person

Ans: B

4. What is the total time spent by the elderly lady in writing a postcard?

- A) Three minutes. B) four hours and five minutes. C) half day D) the entire day.

Ans: D

5. What does the expression 'pillar box' stand for?

- A) a box attached to the pillar. B) a box in the pillar C) box office. D) a pillar type postbox.

Ans: D

Directions for Questions 6-10: Read the passage and answer the questions that follow on the basis of the

information provided in the passage. According to Albert Einstein the non mathematician, is seized by a mysterious shuddering when he hears of 'four-dimensional' things, he is seized by a feeling, which is very similar to the thoughts awakened by the occult. And at the same time the statement that the world in which we live is a four-dimensional space - time continuum is quite a common place statement.

This might lead to an argument regarding the use of the term "commonplace" by Einstein. Yet the difficulty lies more in the wording than the ideas. Einstein's concept of the universe as a four-dimensional space-time continuum becomes plain and clear, when what he means by "continuum" becomes clear. A continuum is something that is continuous, A ruler, for example, is a one-dimensional space continuum. Most rulers are divided into inches and frwasLions, scaled down to one-sixteenth of an inch.

Will it be possible to conceive a ruler, which is calibrated to a millionth or billionth of an inch. In theory there is no reason why the steps from point to point should not be even smaller. What distinguishes a continuum is the fWASL that the space between any two points can be sub-divided into an infinite number of smaller divisions.

A railroad track is a one-dimensional space continuum and on it the engineer of a train can describe his position at any time by citing a single co-ordinate point - i.e., a station or a milestone. A sea captain, however, has to worry about two dimensions. The surface of the sea is a two-dimensional continuum and the co-ordinate points by which sailor fixes his positions in his two dimensional continuum are latitude and longitude. An airplane pilot guides his plane through a three - dimensional continuum, hence he has to consider not only latitude and longitude, but also his height above the ground. The continuum of an airplane pilot constitutes space as we perceive it. In other words, the space of our world is a three-dimensional continuum.

Just indicating its position in space is not enough while describing any physical event, which involves motion. How position changes in time also needs to be mentioned. Thus to give an accurate picture of the operation of a New York-Chicago express, one must mention not only that it goes from New-York to Albany to Syracuse to Cleveland to Toledo to Chicago, but also the times at which it touches each of those points. This can be done either by means of a timetable or a visual chart. If the miles between New York and Chicago are plotted horizontally on a piece of ruled paper and the hours and minutes are plotted vertically, then a diagonal line properly drawn across the page illustrates the progress of the train in two-dimensional space-time continuum. This type of graphic representation is familiar to most newspaper readers; a stock market chart, for example, pictures financial events in a two-dimensional dollar time continuum. Similarly for the best picturisation of the flight of an airplane from New York to Los Angeles a four dimensional space time continuum is essential. The latitude, longitude and altitude will only make sense to the traffic manager of the airline if the time co - ordinate is also mentioned. Therefore time is the fourth dimension. If a flight has to be looked at, perceived as a whole, it wouldn't work if it is broken down into a series of disconnected take - offs, climbs, glides, and landing, it needs to be looked at and perceived as a continuous four- dimensional space - time continuum curve.

Following are some sample questions on this passage:

The significant feature of a continuum, according to the passage, revolves around The divisibility of the interval between any two points. An ordinary ruler's caliber for marking Its unending curve Its lucid from providing comprehensibility to the non-scientists as well It's variety of co-ordinates.

Answer: A

The purpose of this passage is to highlight the point that Plots and sea captains have something in common Stock market charts may be helpful to physicists The fourth dimension is time. Non-mathematician's are often

afraid of the commonplace There is a marked quality to distance

Answer: C

According to the passage, an airlines traffic manager depends upon all of the following EXCEPT latitude altitude the time co-ordinate longitude the continuous curve in co four

Answer: E

The underlying tone of this selection is persuasive deferential candid instructive gently condescending

Answer: D

According to the author if on wishes portray a physical event in which motion plays a role-one has to Make use of a time-table Indicate how position changes in time Be conversant with the scientist's theories Describe it graphically Be aware of altitude, latitude and longitude

Answer: B

Directions for Questions 11-12: Read each sentence to find if there is any grammatical error in it. If there is any error, it will be only one part of the sentence. The number or alphabet of that part is your answer.(Disregard punctuation errors if any)

11. I never have / visited / or intend to visit / foreign countries /

A B C D

Ans: C

12. The clothes / were neatly / hanged / on the cloth line.

A B C D

Ans:C

Directions for Questions 13-15: One of the four sentences given in each question is grammatically wrong . Find the incorrect sentence.

13. A) Our followers are but a handful. B) Neither he nor I was there. C) Many a glorious deeds were done. D) Everyone of the boys loves to ride.

Ans: C

14. A) She had finished her work when I met her. B) Do you believe in God? C) He cut his hand with a knife. D) He challenged me for a duel.

Ans: D

15. A) Sumit is my elder brother. B) He is two years younger to me. C) He is the eldest man of this village. D) Ravi is five years older than me.

Ans: C

Directions for Questions 16-20: In each of the following questions, some sentence are given which are on the same theme. decide which

sentence is the most preferable with respect to grammar; meaning and usage, suitable for formal writing in English. Find the correct sentence.

16. A) From which train did you come?
B) A series of incidents have taken place.

- C) It is a five men committee.
D) This pronunciation is peculiar to Bengalis.

Ans: D

17. A) They have placed order for books.
B) He has applied for lectureship.
C) The river has overflown its bank.
D) Give me rupees two and a half.

Ans: D

18. A) The proceeds of the charity show are for riot victims
B) He asked Ajay and I to go.
C) The weather of this place does not suit me.
D) Either Rajesh or his friends has done it.

Ans: A

19. A) It is far too hard an essay for me to attempt.
B) It is too far hard an essay to attempt for me.
C) Too far it is an essay hard for me to attempt.
D) It is too hard an essay for me to far attempt

Ans:D

20. A) Hoping to be hearing from you, I remain yours sincerely.
B) Hoping to hear from you, I remain yours sincerely.
C) Hoping to have heard from you, I sincerely remain yours.
D) Sincerely I remain yours hoping to be hearing from you.

Ans: B

Directions for Questions 21-25: In each of the following questions, a paragraph or a sentence has been broken up into different parts. The parts have been scrambled and numbered as given below. Choose the correct order of these parts from the given alternatives.

21. 1) I 2)do 3) a 4) of 5) in 6) lot 7) reading 8) my 9) time 10) free

- A. 1, 2, 3, 6, 4, 7, 5, 10, 8, 9 B. 1, 2, 6, 3, 4, 7, 5, 8, 10, 9
C. 1, 2, 3, 6, 7, 4, 5, 8, 10, 9 D. 1, 2, 3, 6, 4, 7, 5, 8, 10, 9

Ans: D

22. 1) on to 2) seat 3) evening 4) Edinburgh 5)the 6) booked 7) flight 8) a 9) time 10)to

- A. 9, 6, 8, 2, 1, 5, 3, 7, 10, 4 B. 9, 6, 8, 1, 2, 5, 3, 7, 10, 4
C. 9, 3, 8, 2, 1, 5, 6, 7, 10, 4 D. 9, 6,

1, 2, 5, 8, 3, 7, 10, 4

Ans: A

23. 1) I 2) my 3) leg 4) to 5) hire 6) gardener 7) when 8) a 9) had 10) I 11) broke

- A. 1, 9, 4, 5, 8, 6, 7, 10, 11, 3, 2 B. 1, 9, 4, 5, 11, 6, 8, 10, 7, 2, 3
C. 1, 9, 4, 5, 8, 6, 7, 10, 11, 2, 3 D. 1, 4, 9, 5, 8, 6, 7, 10, 11, 2, 3

Ans: C

24. 1) She 2) trust 3) Don't 4) because 5) is 6) her 7) lying

- A. 1, 5, 2, 3, 4, 6, 7 B. 3, 2, 6, 4, 1, 5, 7
C. 3, 2, 6, 4, 1, 5, 7 D. 3, 2, 6, 1, 4, 5, 7

Ans: B

25. 1) rent 2) a 3) has 4) room 5) in 6) house 7) she 8) to 9) rent

- A. 7, 3, 2, 4, 1, 8, 5, 9, 6 B. 7, 3, 1, 4, 8, 2, 5, 9, 6
C. 7, 3, 2, 4, 8, 1, 5, 9, 6 D. 7, 3, 2, 4, 8, 1, 5, 6, 9

Ans: C

Analytical section (25 Questions - 30 mins) Directions for

Questions 1-5: There are five friends Sachin, Kunal, Mohit, Anuj and Rohan. Sachin is shorter than Kunal but taller than Rohan. Mohit is tallest. Anuj is a little shorter than Kunal and a little taller than Sachin.

1. Who is the shortest?

- (a) Rohan (b) Sachin (c) Anuj (d) Kunal (e) None of these

Ans: A

2. If they stand in the order of their heights, who will be in the middle?

- (a) Kunal (b) Rohan (c) Sachin (d) Anuj (e) None of these

Ans: D

3. If they stand in the order of increasing heights, who will be the second?

- (a) Anuj (b) Sachin (c) Rohan (d) Kunal (e) None of these

Ans: B

4. Who is the second tallest?

- (a) Sachin (b) Kunal (c) Anuj (d) Rohan (e) None of these

Ans: B

5. Who is taller than Anuj but shorter than Mohit?

- (a) Kunal (b) Rohan (c) Sachin (d) Date Inadequate (e) None

Ans: A

Directions for Questions 6-10:

6. A group of friends goes for dinner and gets bill of Rs 2400 . Two of them says that they have forgotten their purse so remaining make an extra contribution of Rs 100 to pay up the bill. Tell the no. of person in that group.

Ans - 8 person

7. Given the following functions (1) $f(n a b c) = ac$ if $n=1$ (2) $f(n a b c) = f(n-1 a c b) + f(1 a b c) + f(n-1 b a c)$ if $n > 1$ Then what is the value $f(2 a b c) = ?$

Ans: $f(2 a c b) = ab + ac + bc.$

8. There are 600 tennis players 4% wear wrist band on one wrist Of the remaining, 25% wear wrist bands on both hands How many players don't wear a wrist band?

Ans. 432

9. Three types of tea the a,b,c costs Rs. 95/kg,100/kg and70/kg respectively. How many kgs of each should be blended to produce 100 kg of mixture worth Rs.90/kg, given that the quantities of band c are equal 70,15,15 50,25,25 60,20,20 40,30,30

Ans. B

10. If all the 6 are replaced by 9, then the algebraic sum of all the numbers from 1 to 100(both inclusive) varies by

Ans: 330

Directions for Questions 11-15: Each question given below has a problem and two statements numbered I and II giving certain information. You have to decide if the information given in the statements are sufficient for answering the problem. Indicate your answer as

- (a) If the data in statement I alone are sufficient to answer the question;
- (b) If the data in statement II alone are sufficient to answer the question;
- (c) If the data in either in I or II alone are sufficient to answer the question;
- (d) If the data even in both the statements together are not sufficient to answer the question;
- (e) If the data in both the statements together are needed;

11. A) The boy regretted that he had spend a greater part of his vacation in the chair with a plastered leg.
B) With a plastered leg, the boy regretted that he had spent a greater part of his vacation in the chair
C) The boy regretted that a plastered leg he had spent a greater part of his vacation in the chair.
D) The boy with a plastered leg regretted that he had spent a greater part of his vacation in the chair.

Ans: C

12. A) If You will pay heed to the small details, the general plans will surely succeed.
B) If you pay heed to the small details, the general plans will surely succeed.
C) If you would heed the small details, the general plans would have succeed.
D) If you heeded to the small details, the general plans would surely succeed.

Ans: B

13. A) It is a pleasure to see an alligator basking in the sunshine on a river bank as long as 90 feet.
B) It is a pleasure to see an alligator as long as 90 feet basking in the sunshine on a river bank
C) It is a pleasure to see an alligator basking in the sunshine as long as 90 feet on a river bank
D) It is a pleasure to see an alligator basking as long as 90 feet in the sunshine on a river bank.

Ans: B

14. A) There will be a meeting in the long room at 4 o'clock of all the boys who play cricket and football.
B) There will be a meeting of all the boys who play cricket and football in the long room at 4 o'clock.
C) There will be in the long room at 4 o'clock a meeting of all the boys who play cricket and football
D) In the long room at 4 o'clock there will be a meeting of all the boys who play cricket and football.

Ans: D

15. A) We had in this village, some twenty years ago, an idiot boy, whom I well remember, who from a child showed strong propensity for bees.
B) Some twenty years ago, we had an idiot boy in this village, who from a child showed strong propensity for bees, whom I well remember.
C) We had an idiot boy, whom I well remember, who from a child showed strong propensity for bees, in this village some twenty years ago.
D) In this village, we had an idiot boy some twenty years ago, who from a child showed strong propensity for bees, whom I well remember.

Ans: A

Directions for Questions 16-20: Convert the given binary numbers.

16. $(11111011)_2 = (\quad)_8$

Ans: (373)₈

17. $(11011110110010101101)_2 = (\quad)_{16}$

Ans: (DECAD)₁₆

18. $(11010101)_2 = (\quad)_{10}$

Ans: (213)₁₀

19. $(11100111)_2 = (\quad)_8$

Ans: (347)8

20. $(1100010101010010001)_2 = ()_8$

Ans: (1425221)8

Questions 21-25: A cube painted red on two adjacent faces and black on the faces opposite to the red faces and green on the remaining faces is cut into sixty-four smaller cubes of equal size.

21. How many cubes are there which have no face painted?

A) 0 B) 4 C) 8 D) 6

Ans: C

22. How many cubes have only one face painted?

A) 8 B) 16 C) 24 D) 32

Ans: C

23. How many cubes have less than three faces painted?

A) 80 B) 24 C) 28 D) 48

Ans: D

24. How many cubes are there with three faces painted?

A) 4 B) 8 C) 16 D) 24

Ans: B

25. How many cubes have one face green and one of the adjacent faces black or red?

A) 8 B) 16 C) 24 D) 28

Ans: C

Reasoning section (20 Questions- 20 mins)

Directions for Questions 1-4: In each questions below are given two statements followed by two conclusions numbered I and II. You have to take the given two statements to be true even if they seem to be at variance from commonly known facts. read the conclusion and then decide which of the given conclusions logically follows from the two given statements, disregarding commonly known facts.

Give answer

- (A) If only conclusion I follows;
- (B) If only conclusion II follows;
- (C) If either I or II follows;
- (D) If neither I nor II follows and
- (E) If both I and II follow.

1. Statements: Most clocks are fans some fans are walls
conclusions:

I. Some walls are fans II. Some clocks are walls

Ans: D

2. Statements: All birds are dogs some dogs are cats

Conclusions:

I. Some cats are not dogs

II. All dogs are not birds

Ans: D

3. Statements: Some fools are intelligent some intelligent are great

Conclusions:

I. Some fools are great

II. All great are intelligent.

Ans: D

4. Statements: All Men are married some men are educated

Conclusions:

I. Some married are educated

II. Some educated are married.

Ans: E

Directions for Questions 5-6: In each questions below are given two statements followed by two conclusions numbered I and II. You have to take the given two statements to be true even if they seem to be at variance from commonly known facts. read the conclusion and then decide which of the given conclusions logically follows from the two given statements, disregarding commonly known facts.

5. Statements: All bags are chalks. All chalks are bottles.

Conclusions:

I. Some bottles are bags. II. All bags are bottles III. All bottles are bags

IV. Some chalks are not bags

A) Only I, II and IV follow B) Only I, III and IV follow. C) Only II, III and IV follow.

D) All Follow E) none of these

Ans: A

6. Statements: Some trees are buses. All buses are hats

Conclusions: I Some trees are hats II. Some hats are trees

III. All hats are buses IV. Some buses are hats

A) None follow s

B) Only I, II and IV follow.

C) Only II, III and IV follow. D) All Follow E) none of these

Ans: B

Directions(7-15): In each of the following questions one word is different from the rest. Find out the word which does not belong to the group

7. A) Yokel B) Upshot C) Lout D) Bumpkin

Ans: B

8. A) Sofa B) Bed C) Diwan D) Chair E) Table

Ans: B

9. A) Keraunophobia B) Tonitrophobia C) Phonophobia D) Astraphobia

Ans: C

10. A) HB B) ZU C) NI D) TO E) PK

Ans: (A)

11. A) Printer B) Author C) Publisher D) Correspondent E) Reader

Ans: (E)

12. A) EQL B) BHF C) KTI D) SXD E) JWM

Ans: (D)

13. A) Curd B) Butter C) Oil D) cream

Ans: C

14. A) Poland B) Greece C) Spain D) Korea

Ans: D

15. A) Copper B) Tin C) Brass D) Zinc

Ans: C

16. Mr. A, Miss B, Mr. C and Miss D are sitting around a table and discussing their trades.

1. Mr. A sits opposite to cook 2. Miss B sits right to the barber.
3. The washer man is on the left of the tailor 4. Miss D sits opposite Mr. C
What are the trades of A and B?

A. Tailor and Barber B. Tailor and cook C. Barber and cook D.
washer man and cook

Ans: B

17. In a pile of 10 books, there are 3 of History, 3 of Hindi, 2 of mathematics and 2 of English. Taking from above, there is an English book between a history and mathematics book, a history book between a mathematics and an English book, a Hindi book between an English and a mathematics book, a mathematics book between two Hindi books and two Hindi books between a Mathematics and a History book. Book of which subject is at the sixth position from top?

A. English B. Hindi C. Mathematics D. History

Ans: B

18. On a man's tombstone, it is said that one sixth of his life was spent in childhood and one twelfth as a teenager. One seventh of his life passed between the time he became an adult and the time he married; five years later, his son was born. Alas, the son died four years before he did. He lived to be twice as old as his son did. How old did the man live to be?

Ans: 84 years

19. What two numbers have a product of 48 and, when the larger number is divided by the smaller, a quotient of 3?

Ans: 4 and 12

20. A drove of sheep and chickens have a total of 99 heads and feet. There are twice as many chickens as sheep. How many of each are there?

Ans: Nine sheep and eighteen chickens.

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CTS 13 th jan 2010

APTITUDE TEST

Questions = 70 ; time limit = 70 minutes... Correct answer carry one mark and wrong answer carry 0.25 marks. , Offline (paper & pen) test

VERBAL SECTION (25 questions-25min)

Directions for Questions 1-5: Read the passage and answer the questions that follow on the basis of the information provided in the passage.

Outside, the rain continued to run down the screened windows of Mrs. Sennett's little Cape Cod cottage. The long weeds and grass that composed the front yard dripped against the blurred background of the bay, where the water was almost the color of the grass. Mrs. Sennett's five charges were vigorously playing house in the dining room. (In the wintertime, Mrs. Sennett was housekeeper for a Mr. Curley, in Boston, and during the summers the Curley children boarded with her on the Cape.) My expression must have changed. "Are those children making too much noise?" Mrs. Sennett demanded, a sort of wave going over her that might mark the beginning of her getting up out of her chair.

I shook my head no, and gave her a little push on the shoulder to keep her seated. Mrs. Sennett was almost stone-deaf and had been for a long time, but she could read lips. You could talk to her without making any sound yourself, if you wanted to, and she more than kept up her side of the conversation in a loud, rusty voice that dropped weirdly every now and then into a whisper. She adored talking. To look at Mrs. Sennett made me think of eighteenth-century England and its literary figures. Her hair must have been sadly thin, because she always wore, indoors and out, either a hat or a sort of turban, and sometimes she wore both. The rims of her eyes were dark; she looked very ill. Mrs. Sennett and I continued talking. She said she really didn't think she'd stay with the children another winter. Their father wanted her to, but it was too much for her. She wanted to stay right here in the cottage. The afternoon was getting along, and I finally left because I knew that at four o'clock Mrs. Sennett's "sit down" was over and she started to get supper. At six o'clock, from my nearby cottage, I saw Theresa coming through the rain with a shawl over her head. She was bringing me a six-inch-square piece of spice cake, still hot from the oven and kept warm between two soup plates. A few days later I learned from the twins, who brought over gifts of firewood and blackberries, that their father was coming the next morning, bringing their aunt and her husband and their cousin. Mrs. Sennett had promised to take them all on a picnic at the pond some pleasant day. On the fourth day of their visit, Xavier arrived with a note. It was from Mrs. Sennett, written in blue ink, in a large, serene, ornamented hand, on linen-finish paper: . . . Tomorrow is the last day Mr. Curley has and the Children all wanted the Picnic so much. The Men can walk to the Pond but it is too far for the Children. I see your Friend has a car and I hate to ask this but could you possibly drive us to the Pond tomorrow morning? . . . Very sincerely yours, Carmen Sennett After the picnic, Mrs. Sennett's presents to me were numberless. It was almost time for the children to go back to school in South Boston. Mrs. Sennett insisted that she was not going; their father was coming down again to get them and she was just going to stay. He would have to get another housekeeper. She said this over and over to me, loudly, and her turbans and kerchiefs grew more and more distraught. One evening, Mary came to call on me and we sat on an old table in the back yard to watch the sunset. "Papa came today," she said, "and we've got to go back day after tomorrow." "Is Mrs. Sennett going to stay here?" "She said at supper she was. She said this time she really was, because she'd said that last year and came back, but now she

means it ."I said, "Oh dear," scarcely knowing which side I was on. "It was awful at supper. I cried and cried."

"Did Theresa cry?"

"Oh, we all cried. Papa cried, too. We always do."

"But don't you think Mrs. Sennett needs a rest?"

"Yes, but I think she'll come, though. Papa told her he'd cry every single night at supper if she didn't,

and then we all did."

The next day I heard that Mrs. Sennett was going back with them just to "help settle."

She came over the following morning to say goodbye, supported by all five children. She was wearing her traveling

hat of black satin and black straw, with sequins. High and somber, above her ravaged face, it had quite a Spanish grandee air.

"This isn't really goodbye," she said. "I'll be back as soon as I get these bad, noisy children off my hands."

But the children hung on to her skirt and tugged at her sleeves, shaking their heads frantically, silently saying,

"No! No! No!" to her with their puckered-up mouths

Following are some questions on this passage:

1. According to the narrator, Mrs. Sennett wears a hat because she:

1. is often outside.
2. wants to look like a literary figure.
3. has thin hair.
4. has unique taste in clothing.

Answer: C

2. Considering the events of the entire passage, it is most reasonable to infer that Mrs. Sennett calls the children bad because she:

1. is bothered by the noise they are making.
2. doesn't like them hanging on her skirt.
3. doesn't want to reveal her affection for them.
4. is angry that they never do what she tells them.

Answer: C

3. What is the main insight suggested by the conversation in lines 69–83?

1. The Curley family cries to manipulate Mrs. Sennett into doing what they want.
2. The narrator regrets that she is not going to Boston and is a little jealous of Mrs. Sennett.
3. Mrs. Sennett is happy to leave the Curley family because they are always whining and crying.
4. Mrs. Sennett intends to return to the Cape soon because she has discovered that they have been manipulating and taking advantage of her.

Answer: A

4. Given the evidence provided throughout the passage, the children probably silently mouth the word “no” because:

1. Mrs. Sennett has just called them bad, noisy children, and they are defending themselves.
2. they do not want to leave the Cape before the summer is over and are protesting.
3. they are letting the narrator know that Mrs. Sennett is thinking about returning to the Cape.
4. they are continuing their battle against Mrs. Sennett’s intention to return to the Cape.

Answer: D

5. At what point does Mr. Curley cry at the supper table?

1. Before Mary and the narrator sit and watch the sunset
2. Before Mrs. Sennett tells the narrator she doubts she will stay another winter with the children
3. Before the children spend a rainy afternoon playing house in the dining room
4. After the narrator learns that Mrs. Sennett will return to Boston

Answer: A

Directions for Questions 6-10: Read the passage and answer the questions that follow on the basis of the information provided in the passage.

From the 197 million square miles, which make up the surface of the globe, 71 per cent is covered by the interconnecting bodies of marine water; the Pacific Ocean alone covers half the Earth and averages near 14,000 feet in depth. The portions which rise above sea level are the continents-Eurasia, Africa; North America, South America, Australia, and Antarctica. The submerged borders of the continental masses are the continental shelves, beyond which lie the deep-sea basins.

The ocean are deepest not in the center but in some elongated furrows, or long narrow troughs, called deeps. These profound troughs have a peripheral arrangement, notably around the borders of the Pacific and Indian oceans. The position of the deeps, like the highest mountains, are of recent origin, since otherwise they would have been filled with waste from the lands. This is further strengthened by the observation that the deeps are quite often, where world-shaking earthquakes occur. To cite an example, the “tidal wave” that in April, 1946, caused widespread

destruction along Pacific coasts resulted from a strong earthquake on the floor of the Aleutian Deep.

The topography of the ocean floors is none too well known, since in great areas the available soundings are hundreds or even thousands of miles apart. However, the floor of the Atlantic is becoming fairly well known as a result of special surveys since 1920. A broad, well-defined ridge—the Mid-Atlantic ridge—runs north and south between Africa and the two Americas and numerous other major irregularities diversify the Atlantic floor. Closely spaced soundings show that many parts of the oceanic floors are as rugged as mountainous regions of the continents. Use of the recently perfected method of submarine topography. During world war II great strides were made in mapping submarine surfaces, particularly in many parts of the vast Pacific basin.

Most of the continents stand on an average of 2870 feet above sea level. North America averages 2300 feet; Europe averages only 1150 feet; and Asia, the highest of the larger continental subdivisions, averages 3200 feet. Mount Everest, which is the highest point in the globe, is 29,000 feet above the sea; and as the greatest known depth in the sea is over 35,000 feet, the maximum relief (that is, the difference in altitude between the lowest and highest points) exceeds 64,000 feet, or exceeds 12 miles. The continental masses and the deep-sea basins are relief features of the first order; the deeps, ridges, and volcanic cones that diversify the sea floor, as well as the plains, plateaus, and mountains of the continents, are relief features of the second order. The lands are unendingly subject to a complex of activities summarized in the term erosion, which first sculpts them in great detail and then tends to reduce them ultimately to sea level. The modeling of the landscape by weather, running water, and other agents is apparent to the keenly observant eye and causes thinking people to speculate on what must be the final result of the ceaseless wearing down of the lands. Much before there was any recognizable science as geology, Shakespeare wrote “the revolution of the times makes mountains level.”

6. The peripheral furrows or deeps are found

1. only in the Pacific and Indian oceans
2. near earthquakes
3. near the shore
4. in the center of the ocean
5. to be 14,000 feet in depth in the Pacific.

Ans : C

7. We may conclude from this passage that earth quakes

1. Occur more frequently in newly formed land or sea formations
2. Are caused by the weight of the water
3. Cause erosion
4. Occur in the deeps
5. Will ultimately “make mountains level”.

Ans : A

8. The highest mountains are

1. oldest
2. in excess of 12 miles

3. near the deeps
4. relief features of the first order
5. of recent origin.

Ans : E

9. The highest point on North America is

1. 2870 feet above sea level
2. not mentioned in the passage
3. higher than the highest point in Europe
4. 2300 feet above sea level
5. in Mexico.

Ans : B

10. The deeps are subject to change caused by

1. erosion
2. soundings
3. earthquakes
4. waste
5. weathering

Ans : C

Directions for Questions 11-15: Read each sentence to find if there is any grammatical error in it. If there is any error, it will be only one part of the sentence. The number or alphabet of that part is your answer. (Disregard punctuation errors if any)

11. The firm show / began / when we arrived / in the hall/ no error

A B C D E

Ans: B

12. No sooner the news appeared in the paper/ than / there was a rush / in the counter/ no error

A B C D E

Ans: A

13. Unlike the other/ rich men of his community,/ he does not look/ down upon the poor/ no error

A B C D E

Ans: E

14. His supporters are / not as enthusiastic / and co-operative as / that of his opponent's/
no error

A B C D E

Ans: D

15. Our company can / no longer afford / over-manned unit as/; out profit has lower./ no
error

A B C D E

Ans: D

Directions for Questions 16-20: In each of the following questions, some sentence are given which are on the same theme. decide which sentence is the most preferable with respect to grammar; meaning and usage, suitable for formal writing in English. Find the correct sentence.

16. A) Without your help must try to carry out my task alone.

B) Barring your help I should try to carry out my task alone

C) Besides help from you, I must try to carry out my task alone.

D) Failing your help I must try to carry out my task alone

Ans: D

17. A) Since the dividend being declared than the notices were prepared for mailing.

B) Scarcely had the dividend been declared than the notices were sent out.

C) They had no sooner declared the dividend when they sent the notices to the stockholders.

D) No sooner than the dividend been prepared for mailing.

E) The company hardly declared the dividend till the notices were prepared for mailing

Ans: D

18. A) Many works must close owing to lack of fuel, if the strike lasts till the weekend.

B) If the strike lasts for the weekend, owing to lack of fuel many works must close.

C) Owing to lack of fuel, many works must close if the strike lasts over the weekend.

D) Having the strike lasting to the weekend, many works close for lack of fuel.

Ans: C

19. A) As one travels from Karjat to Khandala, he finds the line most beautifully laid.
B) Travelling from Karjat to Khandala, one finds the line most beautifully laid
C) While travelling from Karjat to Khandala, one would find the line most beautifully laid
D) If one travels from Karjat to Khandala, he will find the line most beautifully laid

Ans: B

20. A) Nobody will want to play in his team if he does not treat people kindly
B) If he does not treat people kindly, nobody will play to want his team C)
Nobody will treat people kindly, he does not want to play in this team D)
Nobody will want to treat people, if he does not play in his team kindly.

Ans: A

Directions for Questions 21-25: In each of the following questions, a paragraph or a sentence has been broken up into different parts. The parts have been scrambled and numbered as given below. Choose the correct order of these parts from the given alternatives.

21. 1) you can take

2) you can't take

3) the boy

4) the village

5) out of the village

6) out of the boy

7) but

A) 1,3,5,7,2,4,6

B) 1,5,2,6,3,7,4

C) 1,6,5,3,7,2,4

D) 1,7,2,4,3,5,6

Ans: A

22. 1) food supply

2) storage, distribution and handling

3) pastoral industry and fishing

- 4) besides increasing
- 5) by preventing wastage in
- 6) the productivity from agriculture
- 7) can be increased

A) 1,7,5,2,4,3,6 B) 4,1,6,7,5,3,2 C) 4,6,3,1,7,5,2 D) 6,3,5,7,4,1,2

Ans: C

23. 1) in some of the developed countries

2) in the developing countries

3) mostly in the form of beef, pork etc.

4) about 180 kilograms

5) per capita consumption is

6) of grain per capita annually

7) the people

8) five times that amount

9) consume only

A) 1,7,9,4,6,2,5,8,3 B) 2,5,8,2,7,9,4,6,3 C) 7,2,9,4,6,1,5,8,3 D) 5,8,1,2,7,9,4,6,3

Ans: C

24. 1) The African elephant is usually larger

2) being about three and a half metres in height

3) than the Indian

4) and 6000 kg in weight

5) It has enormous ears

6) which are valued for the ivory

7) and very long tusks

8) that they contain

A) 1,3,2,4,5,7,6,8 B) 1,4,2,3,6,5,8,7 C) 5,3,6,2,7,4,1,8 D) 5,6,2,4,1,3,7,8

Ans: A

25. 1) not only for

2) but also for

3) lumbering

4) construction purposes

5) as an occupation

6) on modern lines

7) the manufacture of wood pulp, paper , resins etc.

owing to the great demand for timber

9) has developed

A) 3,9,6,5,8,1,4,2,7 B) 3,8,9,5,6,1,7,2,4 C) 3,5,9,6,8,1,4,2,7 D) 5,3,9,6,8,1,7,2,4

Ans: C

ANALYTICAL section (25 Q's – 30 mins)

Directions for Questions 1-5: In each of the following questions, there are three words which are related in some way. The relationship in each case is indicated by one of the four alternatives (a), (b), (c) and (d) given below. The alternative which best states the relationship is the answer.

(a) P includes part of Q and part of R but Q and R are independent of each other.

(b) P includes Q and part of R but Q is independent of R.

(c) P, Q and R include parts of one another

(d) P includes both Q and R

1. **Wheat, Loaf, Barley**

Ans: A

2. **Singer, Writer, Actor**

Ans: C

3. **Soldier, Army, engineer**

Ans: A

4. Tiger, Elephant, Quadruped

Ans: D

5. Researcher, historian, scholar.

Ans:C

Questions 6-10 :

6. The total no. of numbers that are divisible by 2 or 3 between 100 and 200(both inclusive) are

Ans:67

7. From a pack of cards Jack, Queen, King & ace are removed. Then the algebraic sum of rest of the cards is

Ans:216

8. The average temperature of days from Monday to Wednesday is 37 degree Celsius and that of from Tuesday to Thursday is 34 degrees. The temperature of Thursday is $\frac{4}{5}$ th of Monday. Then the temperature of Thursday is

Ans: 36 degrees

9. B is 50% faster than A. If A starts at 9 A.M. and B starts at 10 A.M. A travels at a speed of 50 km/hr. If A and B are 300 kms apart, The time when they meet when they travel in opposite direction is ?

Ans:12 noon

10. A cube of 12 mm is painted on all its side. If it is made up of small cubes of size 3mm. If the big cube is splitted into those small cubes, the number of cubes that remain unpainted is

Ans: 8

Directions for Questions 11-15 : Each question given below has a problem and two statements numbered I and II giving certain information. You have to decide if the information given in the statements are sufficient for answering the problem. Indicate your answer as

(a) if the data in statement I alone are sufficient to answer the question;

(b) if the data in statement II alone are sufficient to answer the question;

(c) if the data in either in I or II alone are sufficient to answer the question;

(d) if the data even in both the statements together are not sufficient to answer the question;

(e) if the data in both the statements together are needed;

11. How many new year"s greeting cards were sold this year in your shop?

I. Last year 2935 cards were sold

II The number of cards sold this year was 1.2 times that of last year.

Ans: E

12. Hemant ranks tenth in a class . How many students are there in the class?

I. His friend got 58th rank which is the last.

II Hemant"s rank from the last 49th

Ans: C

13. In a code, „lee pee tin" means „ Always keep smiling" . What is the code for „smiling".

I. „tin lut lee" means „ Always keep left"

II „dee pee" means „rose smiling"

Ans: C

14. At what time did sonali leave her home for office ?

I. Sonali received a phone call at her home

II Sonali"s car reached office at 10.15 AM , 45 minutes after she left her home

Ans: B

15. A, B, C, D and E are sitting ina row. B is between A and e. Who among them is in the middle ?

I. A is left of B and right of D

II C is at the right end

Ans: E

Directions for Questions 16-20 :Convert the given binary numbers.

16. $(1000\ 1111)_2 = (\quad)_{10}$

Ans: $(143)_{10}$

17. $(10\ 1011\ 0001)_2 = (\quad)_{16}$

Ans: $(2B1)_{16}$

18. $(1100\ 1110\ 0001)_2 = (\quad)_{16}$

Ans: $(CE1)_{16}$

19. $(1\ 1101)_2 = (\quad)_{10}$

Ans: $(29)_{10}$

20. $(10\ 1011\ 1111\ 1001)_2 = (\quad)_{16}$

Ans: $(2BF9)_{16}$

Directions(21-25):

A solid cube of each side 8cms, has been painted red , blue , black on pairs of opposite faces.It is then cut into cubical blocks of each side 2cms.

21. How many cubes have only one face painted?

- A) 8 B) 16 C) 24 D) 28

Ans:C

22. How many cubes have 3 faces painted?

- A) 0 B) 4 C) 6 D) 8

Ans:D

23. How many cubes have two faces painted red and black and all other faces unpainted?

- A) 4 B) 8 C) 16 D) 32

Ans:B

24. How many cubes have 2 faces painted black?

- A) 2 B) 4 C) 8 D) None

Ans:D

25. How many cubes are there in all

A) 64 B) 56 C) 40 D) 32

Ans:A

REASONING section (20 Q"s – 20 mins)

Directions for Questions 1-4: In each questions below are given two statements followed by two conclusions numbered I and II. You have to take the given two statements to be true even if they seem to be at variance from commonly known facts. read the conclusion and then decide which of the given conclusions logically follows from the two given statements, disregarding commonly known facts.

Give answer (A) if only conclusion I follows; (B) if only conclusion II follows; (C) if either I or II follows;

(D) if neither I nor II follows and (E) if both I and II follow.

1. Statements : Some papers are files.

Some files are pens.

Conclusions : I some files are not pens.

Some pens are papers.

Ans: D

2. Statements : All locks are keys

No key is a spoon

Conclusions : I No lock is a spoon

II. No spoon is a lock

Ans: A

3. Statements : Some bottles are pencils

Some pencils are glasses

Conclusions : I No glass is bottle

II. Some bottles are glasses

Ans: D

4. Statements : Sohan is a good sportsman

sportsmen are healthy.

Conclusions : I All healthy persons are sportsmen.

II. Sohan is healthy.

Ans: D

Directions for Questions 5-6: In each questions below are given two statements followed by two conclusions numbered I and II. You have to take the given two statements to be true even if they seem to be at variance from commonly known facts. read the conclusion and then decide which of the given conclusions logically follows from the two given statements, disregarding commonly known facts.

5. Statements : All green are blue.

All blue are white.

Conclusions : I Some blue are green.

II. Some white are green

III Some green are not white

III. All white are blue.

A) Only I and II follow B) Only I and III follow.

C) Only I and IV follow. D) Only II and IV follow

E) All follow.

Ans: A

6. Statements : No parrot is crow

All crows are bats.

Conclusions : I Some bats are parrots

II. All bats are parrots

III. Some bats are crows

IV Some bats are not crows

A) None follow s B) Only I and II follow.

C) Only I , II and III follow. D) Only II, III and IV follow

E) Only III and IV follow

Ans: E

Directions 7-15: In each of the following questions one word is different from the rest. Find out the word which does not belong to the group

7. A) CE B) HK C) SQ D) MN E) WZ

Ans : D

8. A) Jupiter B) Sky C) Star D) Moon E) Sun

Ans : B

9. A) Shoulder B) Foot C) Elbow D) Arm

Ans: B

10. A) Nephrology B) Entomology C) Astrology D) Pathology

Ans: C

11. A) Kiwi B) Eagle C) Emu D) Ostrich

Ans: B

12. A) Pineapple B) Orange C) Malta D) Banana

Ans: D

13. A) Kwashiorkor B) Cretinism C) Marasmus D) Gcitre

Ans: D

14. A) hireling B) Cub C) Duckling D) Calf

Ans: A

15. A) KMNO B) ABDE C) PRST D) UWXY

Ans : (B)

16. Four girls are sitting on a bench to be photographed . Shikha is to the left of Reena. Manju is to the Right of reena . Rita is between Reena and manju. who would be second from the left in the photograph ?

A) Reena B) Shikha C) Manju D) Rita

Ans: D

17. Five persons A, B, C, D and E are sitting in a row facing you such that D is on the left of E. If E occupies a corner position , then who is sitting in the center ?

A) A B) B C) C D) D

Ans: D

18. At a family reunion were the following people: one grandfather, one grandmother, two fathers, two mothers, four children, three grandchildren, one brother, two sisters, two sons, two daughters, one father-in-law, one mother-in-law, and one daughter-in-law. But not as many people attended as it sounds. How many were there ?

Ans: 7

19. 97 baseball teams participate in an annual state tournament. The champion is chosen for this tournament by the usual elimination scheme. That is, the 97 teams are divided into pairs, and the two teams of each pair play against each other. The loser of each pair is eliminated, and the remaining teams are paired up again, etc. How many games must be played to determine a champion?

Ans: 96

20. A mountain goat attempts to scale a cliff sixty feet high. Every minute, the goat bounds upward three feet but slips back two. How long does it take for the goat to reach the top .

Ans: 58 minutes

CTS placement paper on 29th JAN 2010

APTITUDE TEST

Questions = 70 ; time limit = 70 minutes... Correct answer carry one mark and wrong answer carry 0.25 marks., Offline (paper & pen) test

VERBAL SECTION (25 questions-25min)

Directions for Questions 1-5: Read the passage and answer the questions that follow on the basis of the information provided in the passage.

For a period of more than two centuries paleontologists have been intrigued by the fossilized remains of pterosaurs, the first flying vertebrates. The issues, which puzzle them, are how these heavy creatures, having a wingspan of about 8-12 meters managed the various problems associated with powered flight and whether these creatures were reptiles or birds.

Perhaps the least controversial assertion about the pterosaurs is that they were reptiles. Their skulls, pelvises, and hind feet are reptilian. The anatomy of their wings suggests that they did not evolve into the class of birds. In pterosaurs a greatly elongated fourth finger of each forelimb supported a winglike membrane. The other fingers were short and reptilian, with sharp claws. In birds the second finger is the principal strut of the wing, which consists primarily of feathers. If the pterosaurs walked on all fours, the three short fingers may have been employed for grasping. When a pterosaur walked or remained stationary, the fourth finger, and with it the wing, could only turn upward in an extended inverted V-shape along each side of the animal's body.

In resemblance they were extremely similar to both birds and bats, with regard to their overall body structure and proportion. This is hardly surprising as the design of any flying vertebrate is subject to aerodynamic constraints. Both the pterosaurs and the birds have hollow bones, a feature that represents a savings in weight. There is a difference, which is that the bones of the birds are more massively reinforced by internal struts.

Although scales typically cover reptiles, the pterosaurs probably had hairy coats. T.H. Huxley reasoned that flying vertebrates must have been warm-blooded because flying implies a high rate of metabolism, which in turn implies a high internal temperature. Huxley speculated that a coat of hair would insulate against loss of body heat and might streamline the body to reduce drag in flight. The recent discovery of a pterosaur specimen

covered in long, dense, and relatively thick hair like fossil material was the first clear evidence that his reasoning was correct.

Some paleontologists are of the opinion that the pterosaurs jumped from a tree and dropped from trees or perhaps rose into the light winds from the crests of waves in order to become airborne. Each theory has its associated difficulties. The first makes a wrong assumption that the pterosaurs hind feet resembled a bat's and could serve as hooks by which the animal could hang in preparation for flight. The second hypothesis seems unlikely because large pterosaurs could not have landed in trees without damaging their wings. The third calls for high altitudes to channel updrafts. The pterosaurs would have been unable

to control their flight once airborne as the wind from which such waves arose would have been too strong.

1.As seen in the above passage scientists generally agree that:

1. the pterosaurs could fly over large distances because of their large wingspan.
2. a close evolutionary relationship can be seen between the pterosaurs and bats, when the structure of their skeletons is studied.
3. the study of the fossilized remains of the pterosaurs reveals how they solved the problem associated with powered flight
4. the pterosaurs were reptiles
5. Pterosaurs walked on all fours.

Answer : D

2.As inferred from the passage, the skeleton of a pterosaur is distinguishable from that of a bird by the

1. length of its wingspan
2. hollow spaces in its bones
3. anatomic origin of its wing strut
4. evidence of the hooklike projections on its hind feet
5. location of the shoulder joint joining the wing to its body.

Answer : C

3.From the viewpoint of T.H.Huxley, as given in the passage, which of the following statements is he most likely to agree with?

1. An animal can master complex behaviors irrespective of the size of its brain.
2. Environmental capabilities and physical capabilities often influence the appearance of an animal.
3. Usually animals in a particular family group do not change their appearance dramatically over a period of time
4. The origin of flight in vertebrates was an accidental development rather than the outcome of specialization or adaption
5. The pterosaurs should be classified as birds, not reptiles.

Answer : B

4.The organization of the last paragraph of the passage can best be described as:

1. New data is introduced in order to support a traditional point of view
2. Three explanations are put forth and each of them is disputed by means of specific information
3. An outline of three hypotheses are given and evidence supporting each of them is given
4. Description of three recent discoveries is presented, and their implications for future study are projected
5. The material in the earlier paragraphs is summarized and certain conclusions are from it.

Answer : B

5. According to the passage, some scientists believe that pterosaurs

1. Lived near large bodies of water
2. Had sharp teeth for tearing food
3. Were attacked and eaten by larger reptiles
4. Had longer tails than many birds
5. Consumed twice their weight daily to maintain their body temperature.

Answer : A

Directions for Questions 5-10: Read the passage and answer the questions that follow on the basis of the information provided in the passage.

After his father's death, writer Laurence Yep returned to San Francisco to look for the apartment house where his family had lived, which also housed their grocery store. It had been replaced by a two-story parking garage for a nearby college. There were trees growing where the store door had been. I had to look at the street signs on the corner to make sure I was in the right spot. Behind the trees was a door of solid metal painted a battleship gray. Stretching to either side were concrete walls with metal grates bolted over the openings in the sides. The upper story of the garage was open to the air but through the grates I could look into the lower level. The gray, oil-stained concrete spread onward endlessly, having replaced the red cement floor of our store. Lines marked parking places where my parents had laid wooden planks to ease the ache and chill on their feet. Where the old-fashioned glass store counter had been was a row of cars. I looked past the steel I-beams that formed the columns and ceiling of the garage, peering through the dimness in an attempt to locate where my father's garden had been; but there was only an endless stretch of cars within the painted stalls. We called it the garden though that was stretching the definition of the word because it was only a small, narrow cement courtyard on the north side of our apartment house. There was only a brief time during the day when the sun could reach the tiny courtyard; but fuchsia bushes, which loved the shade, grew as tall as trees from the dirt plot there. Next to it my father had fashioned shelves from old hundred-pound rice cans and planks; and on these makeshift shelves he had his miniature flower patches growing in old soda pop crates from which he had removed the wooden dividers. He would go out periodically to a wholesale nursery by the beach and load the car with boxes full of little flowers and seedlings which he would lovingly transplant in his shadowy garden. If you compared our crude little garden to your own backyards, you would probably laugh; and yet the cats in the neighborhood loved my father's garden almost as much as he did—to his great dismay. The cats loved to roll among the flowers, crushing what were just about the only green growing things in the area. Other times, they ate them—perhaps as a source of greens. Whatever the case, my father could have done without their destructive displays of appreciation. I don't know where my father came by his love of growing things. He had come to San Francisco as a boy and, except for a brief time spent picking fruit, had lived most of his life among cement, brick, and asphalt. I hadn't thought of my father's garden in years; and yet it was the surest symbol of my father. Somehow he could persuade flowers to grow within the old, yellow soda pop crates though the sun seldom touched them; and he could coax green shoots out of what seemed like lifeless sticks. His was the gift of renewal. However, though I stared and stared, I could not quite figure out where it had been. Everything looked the same; more concrete and more cars.

Store, home and garden had all been torn down and replaced by something as cold, massive and impersonal as a prison. Even if I could have gone through the gate, there was nothing for me inside there. If I wanted to return to that lost garden, I would have to go back into my own memories. Award-winning author Laurence Yep did return to his father's garden in his memories. In 1991 he published *The Lost Garden* an autobiography in which he tells of growing up in San Francisco and of coming to use his writing to celebrate his family and his ethnic heritage.

1. The author is searching for something as he looks through the window of a parking garage. What is he searching for?

1. A particular car
2. The red cement floor of an old store
3. Reminders of the past
4. Evidence of his father's financial success

Ans: C

2. What kind of work did the author's father do?

1. He was a professional gardener
2. He worked in a parking garage.
3. He owned a restaurant.
4. He owned a store.

Ans: D

3. What idea does the story suggest about the author's parents?

1. They both worked hard to support their family
2. They had encouraged their son to become a writer
3. They had not wanted to see a parking garage replace their home.
4. They had been farmers most of their lives.

Ans: C

4. What do you know about the father's garden?

1. It grew in spite of being neglected.
2. The cats would eat all the plants before they grew
3. It flourished in an unlikely spot.
4. It didn't grow well because of lack of sun.

Ans: D

5. Why are details about the neighborhood cats included in this story?

1. To show how much the garden meant to the family.
2. To show how important this garden was to the author's father.
3. To show how hard the author worked at helping his father.
4. To show that the author's father loved animals as well as plants.

Directions for Questions 11-12: Read each sentence to find if there is any grammatical error in it. If there is any error, it will be only one part of the sentence. The number or alphabet of that part is your answer. (Disregard punctuation errors if any)

11. I shall / ring him / tomorrow / in the afternoon.

A B C D

Ans: B

12. I enjoyed / during my / stay in / England.

A B C D

Ans:A

Directions for Questions 13-15: one of the four sentences given in each question is grammatically wrong . Find the incorrect sentence.

13. A) the odds are against him.

B) Let me thread the needle .

C) A nurse is taking care of him.

D) I don't know if snow is falling.

Ans. D

14. A) Let me put my sign here.

B) These cattle are mine.

c) He examined the book closely.

D) He has no knowledge of and no interest in music.

Ans: A

15. A) He has no desire for fame.

B) I intend going to Calcutta.

C) He is too miserly to part with his money.

D) He has invited me for dinner.

Ans: C

Directions for Questions 16-20: In each of the following questions, some sentence are given which are on the same theme. decide which sentence is the most preferable with respect to grammar; meaning and usage, suitable for formal writing in English. Find the correct sentence.

16. A. Our school had won the match if only we have concentrated .
B. Our school would have won the match if only we would have concentrated.
C. Our school would win the match if only we had concentrated.
D. Our school had won the match if only we would have concentrated.
E. Our school would have won the match if only we had concentrated.

Ans: E

17. A. He will not pay unless he is not compelled
B. He will not pay unless he will be compelled .
C . He will not pay unless he is compelled
D. he will not pay till he is compelled.

Ans: C

18. A. Since he lacked needed money , he never turned down anyone who needed help.
B. He wasn't rich by any means, although he never turned down anyone who needed help.
C. Being not rich by any means, but he never turned away anyone who needed help.
D. He wasn't rich by any means, but he never turned away anyone who needed help.
E. Since he wasn't rich by any means, he never turned away anyone who needed help.

Ans: D

19. A) I was asked to stop writing.
B) She denied to go with me.
C) My hairs stood on end.
D) I am reading this novel for four days.

Ans. D

20. A. The teacher asked the student with a frown on his face, to leave the room.

- B. The teacher asked with a frown on his face the student to leave the room.
- C. With a frown on his face, the teacher asked the student to leave the room.
- D. The teacher asked the student to leave the room with a frown on his face .

Ans: C

Directions for Questions 21-25: In each of the following questions, a paragraph or a sentence has been broken up into different parts. The parts have been scrambled and numbered as given below. Choose the correct order of these parts from the given alternatives.

21. 1) is decidedly harmful
- 2) disregarding other equally important aspects,
- 3) to the total neglect of others
- 4) in the life of a man or a woman
- 5) is not wisdom but
- 6) cultivating only one quality
- 7) giving all attention and energy to one aspect of national life only,
- 8) folly
- 9). similarly in the life of a nation.

- A) 4,6,2,5,8,9,7,1,3 B) 4,6,3,1,9,7,2,5,8
- C) 6,2,4,5,1,9,7,3,8 D) 6,4,2,1,9,7,3,5,8

Ans: B

22)

- 1) Zealand 2) islands 3) Australia 4) of 5) new 6) consist 7) both 8) and 9) two
- A) 2,4,3,6,5,7,1,8,9 B) 5,1, 8 3,7,6,9,2,4
- C) 5,1,8,3,7,6,4,9,2 D) 5,1,8,2,3,7,6,4,9

Ans: C

23.

1) Pentium 4 2) any 3) conflicts. 4) handle 5) It seems 6)can 7)that 8)without 9) it

A) 5, 7, 1, 4, 6, 9, 8, 3, 2

B) 5, 7, 2, 4, 6, 8, 9, 1, 3

C) 5, 7, 1, 4, 6, 9, 8, 2, 3

D) 5, 7, 1, 6, 4, 9, 8, 2, 3

Ans: D

24. 1) language 2) of 3) two 4) the 5) official 6)countries 7) is 8) English 9) the

A) 8, 7, 4, 5, 1, 2, 9, 3, 6

B) 8, 7, 1, 5, 4, 2, 9, 3, 6

C) 8, 7, 4, 1, 5, 2, 9, 3, 6

D) 8, 7, 4, 5, 1, 9, 2, 3, 6

Ans: A

25. 1) two 2) there 3) some 4) however 5) countries 6) between 7) are 8) differences 9) the

A) 4, 2, 8, 3, 7, 6, 9, 1, 5

B) 4, 2, 5, 3, 8, 6, 9, 1, 7

C) 4, 2, 7, 3, 8, 6, 9, 1, 5

D) 4, 2, 7, 3, 8, 6, 9, 1, 5

Ans: C

ANALYTICAL section (25 Q's – 30 mins)

Questions 1-5:

1. Out of forty students, there are 14 who are taking Physics and 29 who are taking Calculus. What is the probability that a randomly chosen student from this group is taking only the Calculus class?

Ans: $0.6 = 60\%$.

2. In town of 500 people, 285 read Hindu and 212 read Indian express and 127 read Times of India 20 read Hindu and times of India and 29 read hindu and Indian express and 35 read times of India and Indian express. 50 read no news paper. Then how many read only one paper?

Ans: 45

3. In a group of persons travelling in a bus, 6 persons can speak Tamil, 15 can speak Hindi and 6 can speak Gujarati. In that group , none can speak any other language. If 2 persons in the group can speak

two languages and one person can speak all the three languages, then how many persons are there in the group ?

- A) 21 B) 23 C) 22 D) 24

Ans: B

4. Out of a total of 120 musicians in a club , 5% can play all the three instruments- Guitar, violin and Flute. It so happens that the number of musicians who can play any two and only two of the above instruments is 30.

The number of musicians who can play the guitar alone is 40. What is the total number of those who can play violin alone or flute alone ?

- A) 30 B) 38 C) 44 D) 45

Ans: C

5. In a town 65% people watched the news on television , 40% read a newspaper and 25% read a newspaper and watched the news on television also. What percent of the people neither watched the news on television nor read a news paper ?

- A) 5 B) 10 C) 15 D) 20

Ans: D

Questions 6-10 :

1. A secret can be told only 2 persons in 5 minutes .the same person tells to 2 more persons and so on . How long will take to tell it to 768 persons ?
a)47.5 min b)50 min c) 500 min d)49 min

Ans: 47.5 min

2. When I was married 10 years ago my wife is the 6th member of the family. Today my father died and a baby born to me.The average age of my family during my marriage is same as today. What is the age of Father when he died?

Ans: 70.

3. A son and father goes for boating in river upstream . After rowing for 1 mile son notices the hat of his father falling in the river. After 5 min. he tells his father that his hat has fallen. So they turn round and are able to pick the hat at the point from where they began boating after 5min. Tell the speed of river?

Ans: 6 miles/hr

4. There are three departments having students 64, 58, 24. In an exam they have to be seated in rooms such that each room has equal number of students and each room has students of one type only (No mixing of departments). Find the minimum number of rooms required?

Ans : 73

5. Argentina had a football team of 22 players of which the captain is from the Brazilian team and the goalkeeper is from the European team. For the remaining players they have picked 6 from the Argentinean team and 14 from the European team. Now for a team of 11 they must have a goalkeeper and a captain, so out of 9 now they plan to select 3 from the Argentinean team and 6 from the European team. Find out the number of methods available for it.

Ans : 160600 (check out for right no. $6C3 * 14C6$)

Directions for Questions 11-15 : Each question given below has a problem and two statements numbered I and II giving certain information. You have to decide if the information given in the statements is sufficient for answering the problem. Indicate your answer as

- (a) if the data in statement I alone are sufficient to answer the question;
- (b) if the data in statement II alone are sufficient to answer the question;
- (c) if the data in either I or II alone are sufficient to answer the question;
- (d) if the data even in both the statements together are not sufficient to answer the question;
- (e) if the data in both the statements together are needed;

11. How many visitors saw the exhibition yesterday?

I. Each entry pass holder can take up to three persons with him / her.

II. In all, 243 passes were sold yesterday.

Ans: D

12. How much was the total sale of the company?

I. The company sold 8000 units of product A each costing Rs. 25.

II. The company has no other product line

Ans: E

13. In what proportion would Raj, Karan and Altaf distribute profit among them

I. Raj gets two-fifth of the profit.

II. Karan and Althaf have made 75% of the total investment.

Ans: D

14. What time did the train leave today.

I. The train normally leaves on time

II. The scheduled departure is at 14.30.

Ans: D

15. On which day in January, Subhas left for Germany?

I. Subhas has so far spent 10 years in Germany.

II. Subhas' friend Anil left for Germany on 15th February and joined Subhas 20 days after Subhas' arrival.

Ans: D.

Directions for Questions 16-20 : Convert the given binary numbers.

16. $(1110\ 0111)_2 = (\)_{16}$

Ans: $(E7)_{16}$

17. $(01011010)_2 = (\)_8$

Ans: $(132)_8$

18. $(11110000)_2 = (\)_{10}$

Ans: $(240)_{10}$

19. $(11000101010000111)_2 = (\)_{16}$

Ans: $(18A87)_{16}$

20. $(01001110)_2 = (\)_8$

Ans: $(116)_8$

Directions(21-25): a cube is coloured orange on one face , pink on the opposite face, brown on one face and silver on a face adjacent to the brown face. The other two faces are left uncoloured. It is then cut into 125 smaller cubes of equal size. now, answer the following questions based on the above statements:

21. How many cubes have at least one face coloured pink ?

- A) 1 B)9 C) 16 D) 25

Ans:D

22. How many cubes have all the faces uncoloured ?

- A) 24 B)36 C) 48 D) 64

Ans:C

23. How many cubes have atleast two faces coloured ?

- A) 19 B)20 C) 21 D) 23

Ans:C

24 How many cubes are coloured orange on one face and have the remaining faces uncoloured ?

- A) 8 B) 12 C) 14 D) 16

Ans:D

25 How many cubes one coloured silver on one face , orange or pink on another face and have four uncoloured faces ?

- A) 8 B) 10 C) 12 D) 16

Ans:A

REASONING section (20 Q's – 20 mins)

Directions for Questions 1-4: In each questions below are given two statements followed by two conclusions numbered I and II. You have to take the given two statements to be true even if they seem to be at variance from commonly known facts. read the conclusion and then decide which of the given conclusions logically follows from the two given statements, disregarding commonly known facts.

Give answer (A) if only conclusion I follows; (B) if only conclusion II follows; (C) if either I or II follows;

(D) if neither I nor II follows and (E) if both I and II follow.

1. Statements : Some shirts are biscuits

No biscuit is book

Conclusions : I Some shirts are books

II. Some books are biscuits

Ans: D.

2. Statements : No women can vote

Some women are politicians

Conclusions : I Male politicians can vote

II. Some politicians can vote

Ans: D

3. Statements : No man is a donkey

Rahul is a man

Conclusions : I Rahul is not a donkey.

II. All men are not Rahul

Ans: A

4. Statements : All poles are guns

Some boats are not poles

Conclusions : I All guns are boats

II. Some boats are not guns

Ans: D

Directions for Questions 5-6: In each questions below are given two statements followed by two conclusions numbered I and II. You have to take the given two statements to be true even if they seem to be at variance from commonly known facts. read the conclusion and then decide which of the given conclusions logically follows from the two given statements, disregarding commonly known facts.

5. Statements : All rats are cows

No cow is white.

Conclusions : I No white is rat.

II. No rat is white

III. Some whites are rats

IV All cows are rats

- A) None follows B) Only I and IV follow.
C) Only II and IV follow. D) Only IV follow
E) None of these

Ans: E

6. Statements : All apples are brinjals

All brinjals are ladyfingures

All ladyfingures are oranges

Conclusions : I. Some oranges are brinjals

II. All brinjals are apples

III. some apples are oranges

IV All ladyfingures are apples

- A) None follows B) All follow
C) Only I and III follow D) Either I or III follows
E) None of these

Ans: A.

Directions(7-15): In each of the following questions one word is different from the rest. Find out the word which does not belong to the group

7. (A) Ginger (B) Tomato (C) Carrot (D) Beet (E) Potato

Ans : B

8. (A) BFD (B) NRP (C) HLG (D) QUS (E) UYW

Ans : (C)

9. (A) ML (B) TS (C) FG (D) PO (E) XW

Ans : (C)

10. (A) Cheese (B) Butter (C) Ghee (D) Milk (E) Curd

Ans : (D)

11. (A) GTSH (B) BYXC (C) ETUF (D) LONM (E) KPIR
Ans : (C)

12. (A) PQ (B) CD (C) MN (D) DF (E) RS
Ans : (D)

13. (A) FLOK (B) CROWD (C) HERD (D) SWARM (E) TEAM
Ans : (E)

14. (A) 64 (B) 54 (C) 42 (D) 31 (E) 20

Ans: D

15. A) mania B) pneumonia C) Influenza D) Cholera

ANS: A

16. Five children are sitting in a row. S is sitting next to P but not T. K is sitting next to R who is sitting on the extreme left and T is not sitting next to K. Who are sitting adjacent to S?

A) K and P B) R and P C) Only P D) P and T E) Insufficient Information.

Ans: D

17. In the Olympic Games, the flags of six nations were flown on the masts in the following way. The flag of America was to the left of Indian tricolour and to the right of the flag of France. The flag of Australia was on the right of the Indian flag but was to the left of the flag of Japan, which was to the left of the flag of China. Find the two flags which are in the centre.

A) India and Australia B) America and India C) Japan and Australia D) America and Australia

Ans: A

18. One boy can eat 100 chocolates in half a minute, and another can eat half as many in twice the length of time. How many chocolates can both boys eat in 15 seconds?

Ans: 62.5 chocolates.

19. Potatoes are made up of 99% water and 1% "potato matter." Jack bought 100 pounds of potatoes and left them outside in the sun for a while. When he returned, he discovered that the potatoes had dehydrated and were now only made up of 98% water. How much did the potatoes now weigh?

Ans: 50 pounds.

20. You own a pet store. If you put in one canary per cage, you have one canary too many. If you put in two canaries per cage, you have one cage too many. How many canaries and cages do you have?

Ans: four canaries and three cages.

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