Question and answers for TCS ION CCQT Exam 2019:-

Quants:-

Ques 1. Amina sells a TV at a profit of 25%. Had she sold it at a profit of 25% of the selling price, her profit would have increased by 5% of the cost price plus Rs. 150. What is the cost price of the TV?

1. 13000

2. 12480

3. 12000

4. 10800

Ans: Let CP= x Profit in 1st care = x*25/100 = (¼)x

(¼)x = x* (s/100) + 150 = 12000

Ques 2. From a Vessel containing 25L of pure milk, 5L are taken out and some quantity of water is added. This activity is done one more time. What quantity of milk is the final solution?

1. 21L

2. 16L

3. 15L

4. 19L

Ans: milk-25

1st operation: 20-5(water)

2nd operation: (20/25)*5 = 4

20-4 = 16L

Ques 3. From a number, when the quotient obtained on dividing it by 19 is subtracted, then 360 is obtained. What is the number?

1. 380

2. 361

3. 342

4. 6840

Ans: x-(x/19) = 360

x=380

Ques 4. A and B enter into a partnership, with A putting in three times what B has put in. However B is the working partner and entitled to a salary of Rs 50,000 per month to be paid from the gross profit, in addition to his share of the profit. If the gross profit at the end of the year is Rs 30 lakh, what is A's profit?

1. 24 lakh

2. 12 lakh

3. 18 lakh

4. 6 lakh

Ans: A:3x, B = x

Ratio of profit = 3:1

Gross profit = Rs 30,00,000

share of B working part new = 12*50000 = 600000

Remaining profit = 24,00,000

A's share = 18 lakhs

Ques. 5 Let x be the greatest number of four digits which,when divided by 15,20, and 28.leaves a remainder 2in each case.What is the sum of digts of X?

1. 23

2. 20

3. 21

4. 25

Explantions: LCM 15,20,28==420

420*23=9660+2==9662

Sum of digts =9+6+6+2==23

Ques. 6 Even after reducing the marked price of an article by 68, a trader still makes a profit of 20% on it. If the cost price is 360, what approximate percentage of profit would he have made if he had sold it at the marked price?

1. **40%**

2. **41%**

3. **38%**

4. **39%**

Answer:-Cp=360   sp=(360*120)/100==432

MP-68=432➔432+68=500

New % profit==((500-360)/360)*100==((140*100)/360)=39%

Ques. 7 A student was asked to divide a number by 6 and add 12 to the quotient. He, however, first added 12 to the number and thendivided by 6, getting 112 as the answer. What was the sum of digits of the correct answer?

1. **9**

2. **12**

3. **7**

4. **5**

Answer:-what he did (x+12)/6==112 x+12=112*6=678

X=660

Correct ans=(660/6)+12=110+12=122

Sum of digts = 5

Ques. 8 There are four prime numbers written in ascending order of magnitude. The product of first three is 715 and that of the last three is 2431. What is the largest number?

1. 13
2. 19
3. 17
4. 23

Answer:-

715 = 5 x 11 x 13

2431 = 11 x 13 x 17

5, 11, 13, 17 largest

Ques. 9 If a discount of 12% is given on the marked price of an article, Harish makes a loss of 20%. What will be loss/profit percentage if a discount of 1% is given on the marked price of the article?

1. Loss of 10 %
2. Loss of 9 %
3. Profit of 9 %
4. profit of 10 %

Answer:-Let mp=100 ➜sp,8B, cp=(88*100)/80==110

If discount is 10%

Then sp2 =99, Loss ((110-99)/110)=10%

Answer:-

61408-56789=4619 = 31 x 149

61408 ÷ 149 à remainder =20

Ques. 10 A shopkeeper allows 25% discount on the marked price of an article and still makes a profit of 20%. If he gains 240 over the sale of one article, then what is the cost price of the article?

1. 1600
2. 800
3. 600
4. 1200

Answer:-Let Cp=100 ,profit =20%, Sp = 120

If profit is Rs.20, CP=100

(240*100)/20==1200

Let CP = 100, profit = 20%, SP = 120

If profit is Rs. 20, CP = 100

240 *100 / 20 = 1200

Ques. 11 Let α, β, γ and δ be non-zero numbers. If α, β are the roots of $x^2 + \gamma x + \delta = 0$ and γ, δ are the roots of $x^2 + \alpha x + \beta = 0$, then what is the value of $(\alpha + \beta - \gamma + \delta)$?

1. -4
2. 2
3. 3
4. -2

Ques. 12 A and B working together can finish a piece of work in 4 days. If A working alone can finish it in 6 days, how long will B take to finish the same work?

1. 24 days
2. 12 days
3. 2 days

4. 10 days

Ques. 13 If 4.8 = x + 1 / y + (1/z+1) wherex,y and z are positive integers, then Y+ Z the value of 2x — 3y + 4z is:

1. 15

2. 19

3. 17

4. 13

Answer:-

Ques. 14 A boatman can row to a place 48 km away and return in 14 hours. He also finds that the time he requires to row 4 km with the river is the same as the time required to row 3 km against the river. What is the speed at which the boatman can row in still water?

1. 4 km/hr

2. 7 km/hr

3. 6 km/hr

4. 5 km/hr

Answer:-((48/(u+v))+ ((48)u-v)=14

4/(u+v)==3/(u-v)

(48+36)/(u-v)==14➔(8-4)/(u-v)=14➔u-v similarly u+v=8

U=7

Ques. 15 A sum of money is divided amongst three people A, B and C in the ratio 4 : 5: 6. If B gets 1500, how much did C get?

1. 3000

2. 1800

3. 4500

4. 2000

Answer:-

Ques. 16 If a discount of 12% is given on the marked price of an article, Harish makes a loss of 20%. What will be loss/profit percentage if a discount of 1% is given on the marked price of the article?

1. Loss of 10 %

2. Loss of 9 %

3. Profit of 9 %

4. profit of 10 %

Answer:-Let mp=100 ➜sp,8B, cp=(88*100)/80==110

If discount is 10%

Then sp2 =99, Loss ((110-99)/110)=10%

Ques. 17 In what proportion should fine tea costing Rs. 2000 per kg be mixed with coarse tea costing Rs. 500 per kg, so that the cost of the mixture is Rs. 1000?

1. 1:3

2. 1:5

3. 1:4

4. 1:2

Answer:

Ques. 18 Amit borrows a sum of 13120 and pays back in two equal yearly instalments. If the compound interest is reckoned annually at 5%, what is the value of each instalment?

1. 7054

2. 7056

3. 7065

4. 7045

Answer:-

Ques. 19 One of the roots of the equation

1/x+1 + 1/x+2 = 4 / x+4

1. $1 + \sqrt{3}$

2. $1 + 2\sqrt{3}$

3. $2 + 2\sqrt{3}$

4. $2 + \sqrt{3}$

Answer:-=>x=2+-=2√3

Our of the roots = 2+-2√3

Ques. 20 'p' litres of water was poured into a tank and it was still 'c'% empty. How much water (in litres) must be poured into the tank, in order to fill it to the brim?

1. p + c /100 — c

2. pc / 100 + c

3. pc / 100 — c

4. 100p / 100 + c

Answer:-let speed of boat = 2x,speed of water flow =x

Speed downstream = 3x, speed upstream = x

60/3x=4

X=60/12=5, speed of boat =10

Distance cover in 2 hrs opposite in flow :5*2=10

English:-

Ques. 1 Choose the most appropriate synonym for the underline word.

The committee condemned the suspended players.

1. Criticized
2. Sentenced
3. Surprised
4. Praised

Sol: condemned to say somebody has done something wrong i,e,to criticized.

Ques. 2 The museum will be closed until _____ notice.

Which word is suited to fill in the blank.

1. Further
2. Near
3. Nearest
4. Father

Sol : Closed until further notice

Ques. 3 Two Nigerian scientists have found that jatropha, a semi-green poisonous shrub, can be used as a very effective pain killer.

Options:

P: As such, doctors advise patients to use pain killer with care and us minimally as possible.

Q: Scientists have therefore lately turned to nature to explore traditional medicines for a drug with minimal side effect.

R: These can be anything from lethargy and constipation to dysfunctions of the liver or kidney.

1. Qp
2. PQ
3. QR
4. RQ

Sol: the two sentences are these can be anything from lethargy and constipation to dysfunction of the liver or the kidney.scientist have therefore turned to nature explore traditionally take the drug with minimal side effects.

Paragraph(Questions 3 – 8): Read the passage and answer the questions that follow:-

The junk and snack food industry washed its hands of any responsibility for rising obesity among children and adults yesterday. rejecting calls for tobacco-style health warning or a ban on advertising food to youngsters. Giving evidence to a committee of MPs, four of the most powerful food industry figures blamed uninformed parents, low fat yoghurts, fish and chip shops and Indian restaurants for obesity.

Offering "super-sized" McDonald"s meals requiring children to eat 173 packets of Walkers crisps to earn a school book and promoting king-size dairy milk bars to sedentary motorists were all about select committee.

Andrew Cosslett, managing director of Cadbury Schweppes in Europe, said health warning detailing how much exercise was needed to burn off a meal were unnecessary and could be damaging.

David Hinchcliffe, the committee chairman said a Mcdonald"s cheeseburger with fries and a milkshake, for example, would equate to nine-mile walk.

Mr Cosslett retorted: " I think health warning are a dangerous thing and while we understand the problem. I don"t think a curly wurly is dangerous, "The executives from McDonald"s. Schweppes, PepsiCo and Kellogg"s said the nutritional and calorific content of their product was well-known, but it was food items that were not in precise portion sizes and were sold without calorie information that the real obesity threat.

Ques. 3 What issue is being debated in the passage?

1. The calorie content in junk food

2. The rise of obesity in children and adults

3. Junk food and children

4. The responsibility of junk food for rising obesity.

Sol: the passage is about junk food and how it causes obesity.

Ques. 5 Which would be the best title for the passage.

1. Ban the junk food, say critics

2. Junk food industry accepts full responsibility for rising obesity

3. Portion awareness, not the junk food is the problem, say food giants.

4. Junk food is healthy say food giants

Sol: The passage is about having an awareness of how much we eat, the portions that eateries offer us.

Ques. 6 As per the food industry representative, what was the purpose behind offering super-sized meals and king-sized chocolate bars?

1. Attracting overseas customers

2. Promoting healthy living

3. Encouraging children to continue education

4. Providing more choice to public

Sol: super/king sized are ways of giving more choices to consumers.

Ques. 7 What does "sedentary" mean?

1. Doing no work

2. Driving rather slowly

3. Idling away time

4. Spending most of the time seated

Sol: sedentary means being motionless, lazy, inactive, spending most of the time seated.

Ques. 8 The health warning that Andrew Cosslett is talking about are :

1. The amount of exercise to burn the calories

2. The effects on children"s health

3. The calorie content of the product

4. The nutritional value of the product

Sol: Andrew Cosslett is concerned about burning calories through exercise.

Ques. 9 My friend is _____ a hard time.Her mother is sick and she herself is jobless?

1. **Going into**

2. **Going through**

3. **Going for**

4. **Going with**

Sol: to go through is to experience

Ques. 10 One part of the sentence below may contain an error. identify the part. If there is no error, "No error"

Kiran and his friend/are quite tired/by each other

1. **No error**

2. **Are quite tired**

3. **Kiran and his friend**

4. **By each other**

Sol: tired of is the standard expression.

Ques. 11 One part of the sentence below may contain an error. identify the part. If there is no error, "No error"

Suma told to me/she would answer/all the calls thereafter

1. **No error**

2. **All the calls thereafter**

3. **Suma told to me**

4. **She would answer**

Sol: told as a transitive verb does not take to with (after it)

Ques 12: Arrange the following parts to make a meaningful sentence:

S: are never stated

P: that universal truths

Q: in the past tense

R: the teacher said

1. QPSR
2. RQSP
3. RPSQ
4. SQRP

Sol: The sentence derived by arranging the parts is: the teacher said that universal truth are never stated in the past tense.

Ques. 13 _____ you start at once,you will be late for the movie.

1. Whether
2. Suppose
3. If
4. Unless

Sol: unless a piece of actions is carried out now,the predicted consequence is bound to happen.

Ques. 14:- "see for yourself what a mess you have _____ in the living room," the mother scolded her kids".

1. Creation
2. Created
3. Create
4. Creating

Sol: they have demanded a past participle to complete the verb phrase.

Ques. 15 Choose the option that expresses the meaning of the underlined word in the given sentence.

"Do you have the will to fight this system?" my father asked me, when I was agitated on looking at the conditions of the roads.

1. Disturbed
2. Satisfied
3. Nervous

    4. **Afraid**

Sol: to be agitated is to to be disturbed

Ques. 16 The researchers distributed _____ to the college students.

    1. **Questiaire**

    2. **Questionnaire**

    3. **Questionnaier**

    4. **Questionair**

Sol: you distribute a questionnaire as part of a research or a study.

Ques. 17 "Can we go through this _____ one last time before we send it to the clients?" I asked my team.

    1. **Propose**

    2. **Purpose**

    3. **Property**

    4. **Proposal**

Sol: the proposal is the right word here.

Ques. 18: I am of the opinion that you must apologise _____for your misconnect.

    1. **Heartily**

    2. **Impressively**

    3. **Suspiciously**

    4. **Politely**

Sol: Politely is the only right options

Ques. 19: One part of the sentence below may contain an error. identify the part. if there is any error, choose "No error".

We invited a MP/to be hief guest/at the inaugural functions.

    1. **At the inaugural function**

    2. **We invited a MP**

3. No error

4. To be chief guest

Ques. 20 In the following sentences, four words/phrases have been underlined. One of them is incorrect.C hoose the incorrect word/phrase from the given options.

The Law Minister is of the opinion that those who does not respect woman must be dealt with sternly.

1. Must

2. Sternly

3. Of the opinion

4. Does not

Sol: those who_ require a plural verb, so those who does not respect woman.

Reasoning:-

Ques 1. Select the combination of numbers so that letters arranged accordingly will form a meaning word ?

Y	E	I	H	G	E	N
1	2	3	4	5	6	7

1. 5142367

2. 7235461

3. 6753124

4. 4153276

Exp:HYGIENE

4153276

Ques 2. 5 : 3125 :: 3 : 27 :: 4 :___

1. 256

2.   1024

3.   128

4.   64

Sol: 5:5:5 :: 3: 33 :: 4:4 4*4*4*4=266

Ques 3.   Pointing towards kusum, Adarsh said," i am the only son of her mother"s son ",How is kusum related to Adarsh?

1.   Aunt

2.   Cousin

3.   Mother

4.   Niece

Sol: Aunt   Kusum is adarsh"s father sister,Ararsh is kusum"s mother"s son(Kusum brother).

Ques 4.   Which options completes the given series?

3, 7, 15, 27, ?, 63

1.   45

2.   53

3.   43

4.   55

Sol: 3,7,15,27,?,63   multiple of 4 are added to get new term of series +4,+8,+12,+16+,+20

Ques 5.   If SPLINDER is coded as 67408192,how will PRISTINE coded as ?

1.   72016089

2.   72061089

3.   27061089

4.   72061098

Sol: SPLINDER   PRISTINE

67408192   72061089

Ques 6. Father"s age at the time of son"s birth was 4 times the oresent age of son.After 7 years from now ,father age will be 3times the son"s age.find the present age of father and son respectively.

1. 36 year,8 years

2. 32 years,6 years

3. 35 years,7 years

4. 37 years,9 years

Sol: suppose son"s age present age "X"

Father present age ==4x+x=5x

Father 7 year father"s age = 5x + 7=3(x+7)

$$5x+7=3x+21$$

$$5x-3x= 21- 7=14$$

Father present age =5*7=35 years.

Ques 7. The questions given below is folled by two statements,I and II, each containing some data. Decide which of the statement is/are sufficient to answer the questions.

Questions:

Amber ranked 9th in a class of 58 students. What is the rank of Nitish from the bottom of the class?

Statements:

1. There are 11 students between Amber and nitish

2. There are 5 students between Nitish and Amber

3. Statement II alone is Sufficient

4. Statement I alone is Suffcient

5. Both statement I and II together are needed

6. Either statement I alone or statement II alone is sufficient.

7. Sol: Alone

11 student between Amber and Nitish suggest these are towards bottom and nitish is 38th from the buttom

III.   5 students in between may be before Amber and his rank from bottom may be 56th

Ques 8.   The questions given below is followed by two statements,I and II, each containing some data.Decide which of the statement(s) is/are sufficient to answer the questions.

Questions:

Ashoke ranked 10th in the class.how many students are there in the class?

Statement:

1.   There are 5 students between Ashoke and Prakash.

2.   Ashok"s rank from the bottom is 20th

3.   Statement I alone is sufficient

4.   Both statement I and II together are needed

5.   Either statement I alone or statement II alone is sufficient.

6.   Statement II alone is sufficient

Sol:

Statement II alone is sufficient.

Ques 9.   Given below is a questions followed by two statements.Decide which of the statements,I and II are sufficient to answer in the given questions.

Qestions:

What is Deepak age?

Statement:

1.   In 10 years Deepak will be twice as old as Ravi would be.

2.   Ravi was born 5 years ago

3.   Only I is sufficient

4.   Both I and II are not sufficient

5. Only Ii is sufficient

6. Both I and Ii are required

Sol: As per as statement I and II are required to answer the questions.

Ques 10. If PREACHER IS coded as 90341830 and THEORY as 583802, what will be the code for ARCHERY?

1. 408032

2. 4081302

3. 4018302

4. 4108302

Sol:

PREACHER   THEORY   ARCHERY

90341830   583802   4018302

Ques 11. Sarika said," Ritesh is my mother"s oly son and father of jaya"s only daughter sonal".how is Sonal related sarika?

1. Sister-in – law

2. Niece

3. Grand-daughter

4. Sister

Sol: Ritest(Brother) & Sarika (his sister)

Jaya(w/o Ritesh)

Sonal (daughter) sonal is niece of Sarika

Ques 12. Pointing to a man,a woman says," His sister is my mother in law. How is her husband related to the man?

1. Son-in-law

2. Son

3. Grandson

4. It cannot be determined

Sol: Grandson husbands"s mother"s father is the man.

Ques 13. If MASSACRE is codded as AMSSCAER,what would CALAMITY be coded as ?

1. **ACALIMYT**

2. **ACALINYT**

3. **ACALMIYT**

4. **ACALIMYT**

Sol: MASSACRE

AMSSCAER

CALAMITY==ACALIMYT

Ques 14. Kis the brother of X and only son of P, Y is the father of P,How is X related toY?

1. **Daughter in law**

2. **Daughter**

3. **Sister**

4. **Granddaughter**

Sol:

Grand Daughter (y father of P)>>>>P>>>(x is daughter)*5(only son of P brother of X).

Ques 15. Pointing towards kusum, Adarsh said," i am the only son of her mother"s son ",How is kusum related to Adarsh?

1. **Aunt**

2. **Cousin**

3. **Mother**

4. **Niece**

Sol: Aunt   Kusum is adarsh"s father sister,Ararsh is kusum"s mother"s son(Kusum brother).

Ques 16. Neerja is taller than Sandhya,but not taller that Rama.Rama and Kusun are of the same height.Neerja is shorter than girija.Amongst all of them who is the shortest?

1. **Neerja**

2. **Girijja**

3. **Sandhya**

4. **Rama and Kusum**

Ques 17. In the certain code HEART is written s FGYTR.How is MOUSE written in that code?

1. **OMWQG**

2. **OMSUC**

3. **KQSUC**

4. **KQWQG**

Sol: HEART   PATTERN 2+2-2+2-2

Mouse=kqsuc

Ques 18. Select the one which is different from the other three alternatives.

1. **398**

2. **469**

3. **865**

4. **676**

Sol: others total is 19

4+6+9=19

8+6+5=19

6+7+6=19

Ques 19. Rahul started from a point "A " and walked 15m towards south.He turned left and walked 20m.he then turned left and walked 15 meters.he again turned left and walked 35m and reached a point B.How far and in which direction is the point "B" from the point "A."?

1. 20m north

2. 35m south

3. 15m east

4. 15m west

Ques 20.   If the word TERM is coded as S2QL and VENTURE as U2MS5Q2,what will OCCASION be codded as?

1. 4BB1R34M

2. 4BB1S34M

3. 4BB1T34M

4. 4BB1R43M

Sol: TERM VENTURE

S2QL   U2MS5Q2

OCCASION

4BB1R34M

Read the Question properly(Question 21–22)

Seven children A,B,C,D,E,F and G are standing in a line.B is to the immediate right of F.G is to the left of E. There are two children between A and D. C is to the immediate right of A and immediate left of F. B is not on the left side of G.Two children are standing between E and F.