TalentBattle

Prepare for TCS Ninja (2022 Batch)

PATTERN | SAMPLE QUESTIONS
IMPORTANT TOPICS | PREPARATION TIPS

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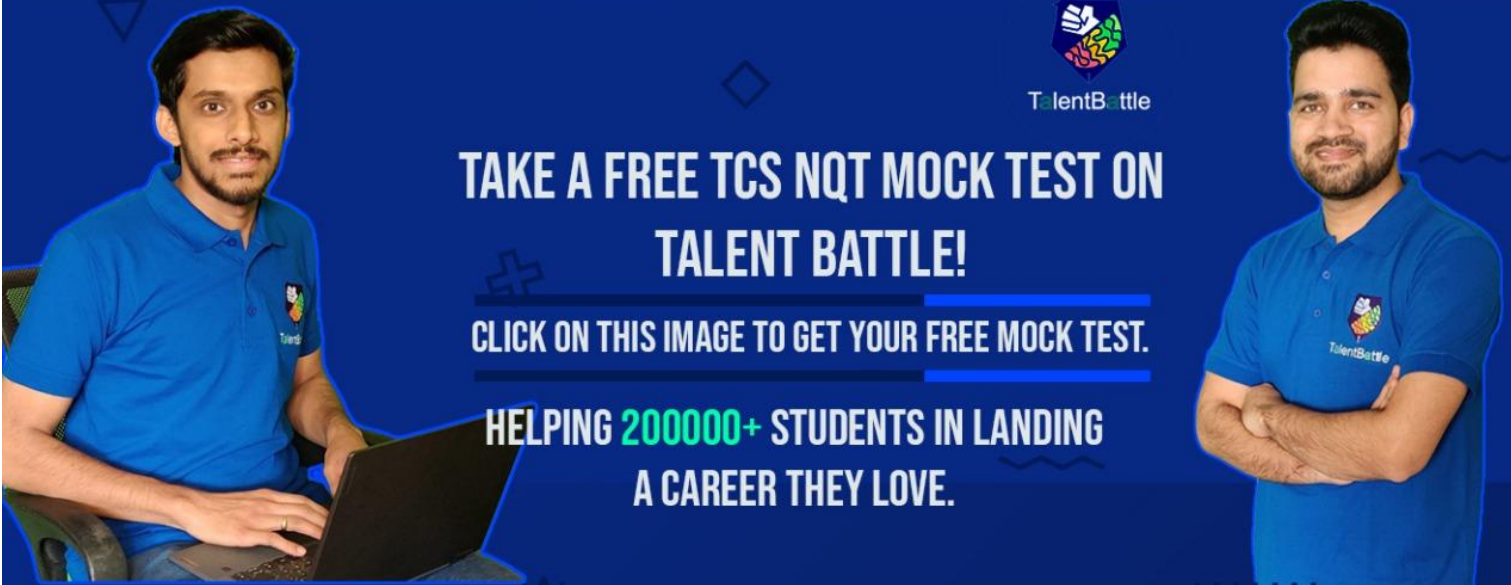
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IMPORTANT MESSAGE FOR ALL 2022 BATCH STUDENTS REGARDING TCS-NQT

TCS Plans to hire 40000+ students from Campus this Year

Source: Rediff, Live mint, Economics Times

TCS became the first Indian IT company to cross the 500,000 people milestone with a total headcount of 509,058 at the end of the first quarter of 2022 it said in a press release. The company added a total of 20,409 new employees during the quarter, its highest ever quarterly net headcount addition. The company also reported low attrition levels of 8.6%. Over 478,000 employees have been trained in Agile methods and over 407,000 employees have been trained on multiple new technologies. TCS' philosophy of investing in people and its progressive workplace policies have resulted in industry-leading talent retention, it said.

"We hired over 40,000 people from campus last year. We will do more this year in India," Milind Lakkad, Chief HR Officer of TCS said on Friday.

India's biggest IT services company Tata Consultancy Services or TCS will be hiring over 40,000 freshers from campuses in India in the fiscal year 2021-22.

The firm, the largest employer in the private sector with a base of more than 5 lakh employees, had hired 40,000 graduates from campuses in 2020 and will do better on that number, the company's chief of global human resources Milind Lakkad said while speaking to reporters.

He added that the coronavirus pandemic-related restrictions do not pose any difficulties in hiring and added that last year, a total of 3.60 lakh freshers had appeared for an entrance test virtually.

"From the campus in India, we hired 40,000 last year. We will continue to hire and hire 40,000 or more this year in India," Lakkad said, adding that lateral hiring will also be "robust" this season.

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Should I give Paid NQT by TCS-iON (Aug/Nov NQT)?

- TCS has launched TCS Ninja hiring for 2022 Batch Students through which they will hire 2022 batch students.
- This Ninja hiring Test is completely Free of cost. (Link to Apply)
- TCS has not clarified if they will hire 2022 batch students from the paid NQT exams conducted by TCS iON.
- Currently, we recommend everyone to register for the free Ninja hiring exam
- If you have already paid for the August or November NQT exam by TCS-iON then you can use that score to apply for other companies which are in tie-up with TCS-iON.
- If you haven't paid they you can give Free NQT to get placed in TCS.
- You can register for paid NQT if you want to apply for other companies which are in tie-up with TCS-iON Platform

To Know More About TCS Ninja Hiring for 2022 Batch Watch below Video.

Click on the Image to open the video

TCS-NQT ELIGIBILITY CRITERIA

Eligibility criteria for TCS Ninja Hiring - YOP 2022:

- **Percentage:** Minimum aggregate (all subjects in all semesters) marks should be 60% or 6 CGPA in Class Xth, Class XIIth, Diploma (if applicable), Graduation and Post-Graduation examination

- **Backlogs / Arrears / ATKT:** Students should not have more than 1 active backlog / arrear/ ATKT at the time of appearing for the TCS Selection process in the highest qualification. If selected, students should not have any pending backlog or arrear at the time of joining TCS

- **Gap / Break in Education:** It is mandatory to declare gaps in education, if any. Break in education should not be due to extended education (examinations cleared after the time stipulated by the Board / University). Any break in education should not exceed 24 months and is permissible only for valid reasons. Relevant document proof, as applicable, will be checked for gaps in education

- **Course Types:** Only Full-Time courses will be considered (Part Time / Correspondence courses will not be considered). Students who have completed their Secondary and / or Senior Secondary course from NIOS (National Institute of Open Schooling) are also eligible to apply if the other courses are full time. All pending backlogs should be completed within the stipulated time duration

- **Work Experience:** Students with prior work experience of up to 2 years are eligible to apply for the TCS Ninja hiring process

- **Age:** Students should be of 18 to 28 years of age to participate in the TCS Ninja hiring process

- **Courses & Discipline:** UG/PG Engineering Courses from B.E. / B.Tech / M.E. / M.Tech / MCA / M.Sc from any specialization offered by the university / college are only eligible to apply

TCS-NQT SELECTION PROCESS AND TEST PATTERN

1. Online Test
2. Technical Interview
3. Managerial Interview
4. HR Interview

Note: The Interview Rounds are sometimes combined and vary from candidate to candidate. Students face either one, two or three interviews and it totally depends on TCS internal team evaluation criteria and the TCS interview panel.

Online Test Pattern:

Section	Duration	No of Questions
Verbal Ability	30	24
Reasoning Ability	50	30
Numerical Ability	40	26
Programming Logic MCQ	15	10
Coding	45	2
Total	180 mins	92

The Online Test is either be given from any location or form TCS-iON Exam centres. TCS decides whether to allow remote test option or incentre option or both. In the test TCS may even not allow revisiting the questions to curb cheating and malpractices. It means that you have to either attempt the question or skip it. Once you move to the next question you cannot go back to the previous question.

TCS-NQT IMPORTANT TOPICS FOR ONLINE TEST (COGNITIVE ABILITY)

Numerical ability	Reasoning Ability	Verbal Ability
Elementary Statistics	Coding and Decoding	Reading comprehension
Percentage	Cuts and unfolds	Sentence correction
Time & Work	Attention to detail	Sentence completion
Area & Mensuration	Unboxing a cube	Error Identification
Number System	Analogies	Synonyms & Antonyms
Linear Equations	Blood Relation	Sentence/Paragraph Re-arrangements
Data Interpretation	Data Arrangements	Fill in the blanks (Prepositions/Articles Tenses/Conjunctions)
Simple Interest	Visual Reasoning	-
Compound Interest	Venn Diagrams	-
Profit and Loss	Syllogisms	-
Speed, Distance, Time	Statement Assumption	-
Ratio and Proportion	Statement Conclusion	-

Mega Webinar on How to Prepare for TCS-NQT?

Click on the image below to open the video

TCS-NQT IMPORTANT TOPICS FOR ONLINE TEST (SUBJECT NQT:IT PROGRAMMING)

Programming Concept MCQ	Coding
Operators	Programming Fundamentals
Looping statements	Conditional & Looping Statements
Object-Oriented Programming (OOPS)	Arrays
Standard Template Libraries (STL)	Strings
Threading	
Data Structures: Linked List, Stack, Queue, Trees, and Graphs	
Basic Software Development Life Cycle	
Functions	
Recursion	
Pseudocode	
Algorithms	
Arrays	
Object Modelling	
Compiler Design	
Control statements	
Strings	

Mega Webinar on How to Prepare for TCS-NQT?

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TCS-NQT NUMERICAL ABILITY SAMPLE QUESTIONS

Q1) A man has to travel 50 km in two hours. He could cover 20 km in one hour and then had to stop for 10 minutes for refuelling. By what factor should he increase his speed with reference to that during the first hour so as to be able to complete the journey as per schedule?

A. 1.2   B. 1.8   C. 2.4   D. 1.5

Answer: Option B

Explanation:
Total distance he has to covered = 50 km
Total time he has = 2 hrs.   Distance covered in 1hr =20 km
Therefore Speed (S1) = 20 km/hr.
Remaining distance = 50-20 = 30 Km and remaining time = 1hr
He spent 10 minutes for refuelling
so total remaining time he has = 60-10 = 50 minutes = 5/6hr
he has to complete 30 km in this time
speed = $\frac{30}{\frac{5}{6}}$ = 36 km/hr

Factor of speed increased by = increased speed / previous speed = 36/20 = 1.8

Q2) X is four times as efficient as Y in respect of doing a particular work. Working together they complete the work in 16 days. In how many days y working alone will be able to half the work?

A. 80   B. 20   C. 40   D. 60

Answer: Option C

Explanation:
Let efficiency of Y = a units/day
Efficiency of X = 4a units /day
Total work = Efficiency × Time taken
Together by completed in 16 days
Therefore, Total work = efficiency of X and Y × time taken = (a+4a) 16 = 80a units
Half of the work = 80a/2 = 40a
Time taken by Y to complete half of work = $\frac{work}{efficiency\ of\ y}$ = 40a/a = 40days

Q3) If 5^X3^Y = 225 x 405, find the value of X^{2Y-3X}

A. 27   B. 81   C. 125   D. 25

Answer: Option A

Explanation: Prime Factorization of 225 = 5 x 5 x 3 x 3 = 5^2 x 3^2
Prime Factorization of 405 = 3 x 3 x 3 x 3 x 5 = 5^1 x 3^4
5^X3^Y = 225 x 405
5^X3^Y = 5^2 x 3^2 x 5^1 x 3^4
5^X3^Y = 5^3 x 3^6
Bases are equal, equating power we get X = 3 and Y = 6
Now, X^{2y-3x} = $3^{2(6)-3(3)}$ = 3^{12-9} = 3^3 = 27

Q4) What is the mean deviation of the data 8,9,12,15,16,20,24,30,32,34?
    A. 10.2   B.8   C.0   D.5
Answer: Option D
Explanation
Mean deviation = Sum of deviations from mean / Total observations
Mean = (8 + 9 + 12 + 15 + 16 + 20 + 24 + 30 + 32 + 34) /10 = 20
Mean deviation = difference between Mean and observation
20-8 = 12,
20-9 = 11,
20-12 = 8,
20-15 = 5,
20-16 = 4,
20-20 = 0,
24-20 = 4,
30-20= 10,
32-20 =12
34-20 = 14
Mean deviation = (12 + 11 + 8 + 5 + 4 + 0 + 4 + 10 + 12 + 14) / 10 = 80/10 = 8

Q5) How much percentage is (0.025% of 240% of 1.5) of 0.9?

A. 0.01 B. 10 C. 0.1 D. 1

Answer: Option C

Explanation:

(0.025% of 240% of 1.5) = $\frac{0.025}{100} \times \frac{240}{100} \times 1.5 = \frac{9}{10000}$

X % of 0.9 = $\frac{9}{10000}$

$\frac{x}{100} \times 0.9 = \frac{9}{10000}$

Therefore, X = 0.1

Q6) What is the mean proportional (MP) between the MPs of (2/7 & 32/343) and (2 & 1/5000)?

A.2/175 B.3/35 C.4/35 D. 2/35

Answer: Option D

Explanation:

Mean proportion of 2/7 and 32/343 = $\sqrt{\frac{2}{7} \times \frac{32}{343}} = \frac{8}{49}$

Mean proportion of 2 and 1/5000 = $\sqrt{2 \times \frac{1}{5000}} = \frac{1}{50}$

Mean proportion of 8/49 and 1/50 = $\sqrt{\frac{8}{49} \times \frac{1}{50}} = \frac{2}{35}$

Q7) Which one among the following has the least value?

A. √77 - √76 B.√75 - √74 C.√76 - √75 D.√74 - √73

Answer: Option A

Explanation:

Rationalizing the options

√77 - √76 * (√77 + √76)/ (√77 + √76) = 1/ (√77 + √76)

√75 - √74 * (√75 + √74)/ (√75 + √74) = 1/ (√75 + √74)

√76 - √75 * (√76 + √75)/ (√76 + √75) = 1/ (√76 + √75)

√74 - √73 * (√74+ √73)/ (√74 + √73) = 1/ (√74 + √73)

Comparing all the fractions, 1/ (√77 + √76) is the least value as its denominator is the greatest

Let the fourth proportional be x

Q8) What is the fourth proportional of 0.006, 1.2 and 6/25?

    A.4.8   B.3.6 C.36 D.48

Answer: Option D

Explanation: Let the fourth proportional be x

Then,

0.006: 1.2: 6/25: x

0.006 * x = 1.2 * 6/25 (Since Product of means = Product of extremes)

x = (1.2*6)/ (25*0.006)

x = 7.2/0.15

x = 48

Q9) If n is an integer such that 1nn352 is a six-digit number exactly divided by 24, what will be the sum of the possible value of n?

    A.21   B.27 C.9   D.15

Answer: Option D

Explanation: For a number to be divisible by 24, it should be divisible by both 8 and 3

Divisibility rule for 8: Last three digits must be divisible by 8

Divisibility rule for 3: The sum of the digits of the number should be a multiple of 3

The number is already divisible by 8 as 352 is divisible by 8

Sum of the given numbers = 1 + n + n + 3 + 5 + 2 = 11 + 2n

n should be a single-digit number and can take values of 2, 5, 8

Hence,

Sum of all possible values of n = 2 + 5 + 8 = 15

Q10) The collection of numbers which comprise the data given below is arranged in ascending order. (3,7,9, N - 1,15,18,19,20) If the median of the data is 12.5, then what is the value of N?

A.10.5   B.9   C.11 D. 12

Answer: Option C

Explanation: Median = sum of middle terms / 2

12.5 = N-1+15 /2

25 = N+14

N = 25-14 = 11

TCS-NQT LOGICAL ABILITY SAMPLE QUESTIONS

Q1) In the following diagram, the triangle stands for "males", the circle stands for "doctors", the rectangle stands for "government employed", the hexagon stands for "corona warriors". The numbers in different segments show the number of persons for that segment. How many government-employed doctors are either corona warriors or males or both?
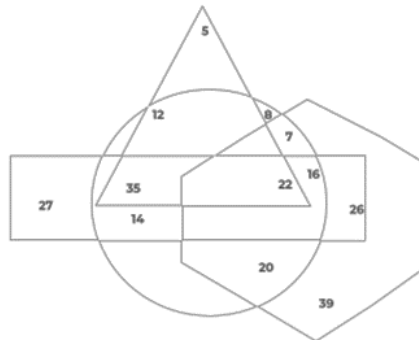
a) 73
b) 35
c) 39
d) 14

Answer: Option A
Explanation

To find out the number of government-employed doctors who are corona warriors, we need to check the intersection of rectangle, circle and hexagon and the value is 16.

To find out the number of government-employed doctors who are males, we need to check the intersection of rectangle, circle and triangle and the value is 35.

To find out the number of government-employed doctors who are both corona warriors and males, we need to check the intersection of rectangle, circle, hexagon and triangle and the value is 22.

So, the total number of government-employed doctors who are either corona warriors or males or both = 16+35+22 = 73.

Q2) Five teachers P, Q, R, S, and T teach a group of students in a sequence between 9 a.m. and 2p.m. Each teacher teaches for one hour Q takes the first class, S teaches just after T. R teaches before P and T. Who takes the second class from 10 am to 11 am?

    a) P
    b) T
    c) R
    d) Q

Answer: Option C

Explanation

Its mentioned Q will take the first class which is from 9 a.m. to 10 a.m.

S teaches after T and R teaches before P and T

Therefore, R should take class before P, T and S

Hence second class will be taken by R

Q3) Each of the five pairs of letters clusters, the letter in the second term is a rearranged, transformed form of the letters to the first term in a particular pattern. In which two pairs have the transformation been done the same?

    1. MASON: AMNOS
    2. PARTY: APRYT
    3. FAULT: AFTLU
    4. LODGE: DOLEG
    5. CARGO: ACOGS

A. 4 and 2

B. 1 and 5

C. 2 and 3
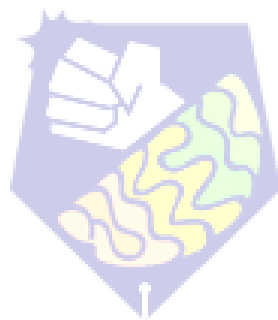
D. 1 and 3

Answer: Option D

Explanation

MASON: AMNOS

M and A are interchanged, S and N are interchanged keeping O at its position

Similarly

FAULT: AFTLU

F and A are interchanged, U and T are interchanged keeping L at its position

Q4) Given below is a question followed by two statements. I and II, each containing some information. Decode which of the statements are sufficient to answer?

How many Rs would Shalini need to spend to buy 11 pencils and 14 pens?

I. Shalini spent an amount of Rs 201 to buy 15 pencils and 12 pens

II. Shalini spent an amount of Rs 121 to buy 7 pencils and 9 pens

    a) Statement II alone is sufficient
    b) The combination of both statements I and II are necessary
    c) The combination of both the statements are not sufficient
    d) Statement I alone is sufficient

Answer: Option B

Explanation

Statement one says 15pencils + 12 pens = 201

Statement two says 7penicls + 9 pens = 121

Using both the statements we can identify the value of pen and pencil

Therefore, the question can be answered using both the statements

Q5) Five Friends A, B, C, D, E are sitting in a line facing North. Who is sitting exactly in the middle?

I. C is sitting between A and B.E is at the fourth place to the left of B.

II. E is sitting to the immediate left of D.C is to the immediate left of B.

    a) Statement II alone is sufficient.
    b) The combination of both the statements I and II are not sufficient.
    c) The combination of both the statements I and II are necessary.
    d) Statement I alone is sufficient.

Answer: Option D

Explanation: Statement one alone We can say.

E is at the fourth place to the left of B

  __ __ __ __ __

  E   B

C is sitting between A and B

  __ __ __ __ __

  E   A   C B

Therefore, C is in the middle. From statement Two alone

E is sitting to the immediate left of D, there are more possibilities like D in 2nd E in 1st position or D in 4th and E in 3rd, similarly for C is to the immediate left of B Hence only statement I alone is sufficient
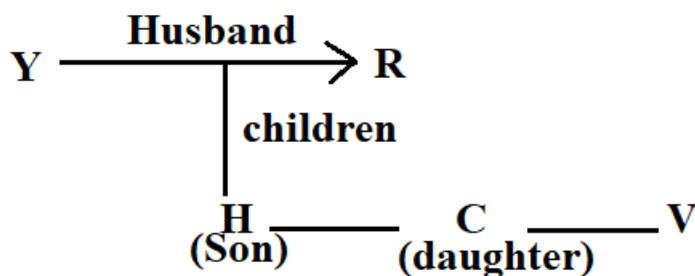
Q6) In a certain code, K*N means K is the brother of N, K+N means K is the husband of N, K x N means K is the mother of N and K ÷ N means K is the sister of N, then which of the following expressions means C is the daughter of Y.?

    a) Y + R x C * H ÷ V
    b) Y + R x H ÷ C *V
    c) Y + R x H * C ÷ V
    d) Y x R + H * C ÷ V

Answer: Option C
Explanation
Y + R x H * C ÷ V

Q7) Which is the wrong term in the following series?
axc,cve,fsh,jpm,oyq,udw

    a) udw
    b) ojq
    c) jpm
    d) fsh

Answer: Option C
Explanation

AXC = 1 letter gap between 1st and 3rd letter   CVE = 1 letter gap between 1st and 3rd letter
FSH = 1 letter gap between 1st and 3rd letter   OYQ = 1 letter gap between 1st and 3rd letter
UDW = 1 letter gap between 1st and 3rd letter   JPM= no pattern like above words.
Hence JPM is the wrong term in the series

Q8) There are five rods K, L, M, N and O. The weight of O is twice the weight of L. The weight of L is equal to the weight of K and M taken together. The weight of M is twice the weight of K. The weight of N is thrice the weight of M. If the weight of N is 90 kg. What will be the weight of O?

    a) 105 kg
    b) 60 kg
    c) 120 kg
    d) 90 kg

Answer: Option D

Explanation

Given,

The weight of O is twice L

$O = 2L$ --- Eq (1)

The weight of L is equal to the weights of K and M together

$L = K+M$ --- Eq (2)

The weight of M is twice the weight of K

$M = 2K$ --- Eq (3)

The weight of N is three times the weight of M

$N = 3M$ --- Eq (4)

Given, $N = 90$ kg --- Eq (5)

From Eq (4), $3M = 90$

$M = 30$ --- Eq (6)

Substitute Eq (6) in Eq (3)

$30 = 2K$

$K = 15$

Substitute the value of K and M in Eq (2)

$L = 15 + 30 = 45$

Now, substitute the value of L in Eq (1)

$O = 2(45) = 90$

Q9) There are five persons in a family A, B, C, D and E. In which, one is working as a doctor; one is an engineer. Both A and C are unmarried ladies, who are not working. None of the ladies is working as a doctor and a lawyer in the family. E is the husband of the only one married couple in the family. B is the brother of C and neither a lawyer and nor an engineer. Who is the doctor in the family?

    a) A
    b) E
    c) B
    d) D

Answer: Option C
Explanation
A and C are not working. hence B, D and E should be doctor, lawyer and engineer its clearly mentioned in the question B is neither lawyer nor engineer hence B is the doctor

Q10) Two Statements are given followed by three conclusion numbered I,II and III . Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusion logically follow (s) from the statements.
Statements-
All animals are plants.
All plants are shrubs.
Conclusion-
l. Some shrubs are plants.
ll. Some animals are not shrubs.
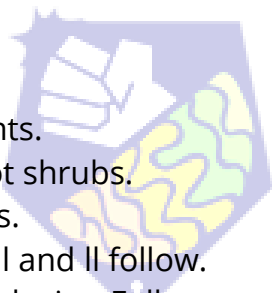lll. All animal are shrubs.

    a) Only Conclusion I and II follow.
    b) None of the Conclusion Follow.
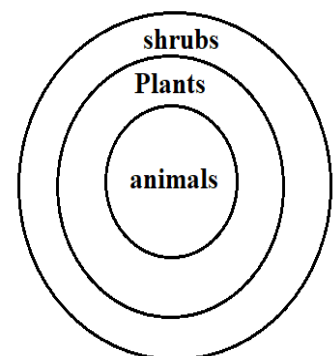   c) Only Conclusion I and III follow
    d) None of the above

Answer: Option C
Explanation
Only Conclusion I and III follow

TCS-NQT VERBAL ABILITY SAMPLE QUESTIONS

Q1) Henry looks carefully into the telescope which lets him see far, far away, as far as the distant nebulae on the far edges of the Milky Way. Henry is an _____. He looks at the sky and stars in particular. Even though he spends much of his time looking at detailed computer reports, which are just lists and lists of numbers. His _____ thing about his job is looking through the telescope. And today he is very excited. He isn't sure yet, but he thinks he has seen a dense cloud which might be the beginning of a new star.

Blank 1 - A. astrologer B. astrologist C. astronomer D. astronaut

Blank 2 - A. favouring   B - pleasant   C - pleasing   D - favourite.

   A. D, B   B. C, D   C. A, A   D. C, B

Answer: Option B

Explanation

Blank 1 – C. Astronomer

Astrologer is someone who gives or predicts horoscopes that are personalized by birth date. These horoscopes make predictions in people's personal lives, describe their personalities, and give them advice. So, it is not related with Henry's job.

Astrologist is a person who uses astrology, which is already explained in the above. So this is not an option that fits in the blank.

Astronomer is a scientist in the field of astronomy who focuses their studies on a specific question or field outside the scope of Earth. They observe astronomical objects such as stars, planets, moons, comets and galaxies – in either observational (by analyzing the data) or theoretical astronomy. This explains or tells the same job done by Henry. Correct answer.

Astronaut is a person who is trained to travel in a spacecraft.

Blank 2 – D. Favourite

When talking about the hobbies we use the term favourite and favouring, pleasant and pleasing are not correct terms in this usage.

Q2) The following three sentences can be revised into one better sentence. Choose the sentence that is the best revision:

I was at the fair. I got lost. I got scared

    A. I am scared after I am lost at the fair

    B. I went to the fair and got scared as I was lost

    C. I am lost the fair so I am too scared

    D. I got lost at the fair and was scared

    Ans – D

Answer: Option D

Explanation:

This sentence combines all the elements of the 3 sentences with a proper use of conjunction and tenses.

Here the three given sentences are presented in past tense. So, the combined sentence should also be represented in past tense. Applying this condition, we can eliminate option A and option C. Because in these two options, the combined sentence is represented in present tense.

In option B, the combined sentence is given as: 'I *went to fair* and got scared as I was lost.' But the action of the person going to the fair is not described in any of the given individual sentences. So, the sentence given in option B is not the correct combination of the given sentences.

Thus, the remaining option D is the correct answer. If we consider the same, the sentence '*I got lost at the fair and was scared*' is the one which relates all the three given sentences without changing the meaning.

Q3) One part of the sentence below may contain an error. Identify the part. If there is no error, choose 'No Error'

Everyday life have become more complicated with the advancement in mobile technology.

    A. Everyday life have become   B. No error

    C. advancement in mobile technology

    D. more complicated with the advancement in mobile technology.

Answer- Option A

Explanation: Life is singular the verb to be used is has. Life has become is correct.

Q4) Governments have been promising the eradication of child labour in high-risk Industries in India for many years. However almost 100 million children are still at work instead of going to school, and around 10 million are working in (1) _____Industries. India has the biggest child population of 380million in the world; plus, the (2) _____ number of children who are forced to earn a living.

Blank 1

A) Handloom B) hazardous C) handicraft D) hardware

Blank 2.

A) largest   B) lowest   C) latest   D) loudest

    A. Blank 1 - D, Blank 2 – C

    B. Blank 1 - B, Blank 2 – A

    C. Blank 1 - A, Blank 2 – D

    D. Blank 1 - C, Blank 2 – B

Answer: Option B

Explanation:

Blank 1 – Hazardous

In the first line of the para, it is mentioned child labour in high-risk industries. This means that 10million are working in high-risk industries which can be replaced with the term Hazardous. We can't say about the other handloom, handicraft and hardware because there is no specific info regarding those industries in the paragraph.

Blank 2 – Largest

Latest and loudest are not the right terms that can be used to describe numbers here. In between largest and lowest. If you observe the previous statement, it talks about India has the biggest........... plus, ...which means it should talk about same kind of biggest number. So in between largest and lowest, Largest is a similar term as we require two such positive terms.

Q5) One the part of the sentence below may contain an error identify the part if there is no error choose "No error"

The state government has proposed to put on place the new portal to promote transparency and simplification

    A. The state government has proposed

    B. to put on place the new portal

    C. promote transparency and simplification

    D. No error

Answer – Option B

Put on is to wear, to put in would be the correct one.

Q6) Select the most appropriate option to fill in the blank

he final report on the project was _____ into three parts

    A. Broken out

    B. Broken off

    C. Broken up

    D. Broke away

Answer: Option A

Explanation:

Let us first consider the meanings of phrasal verbs given in the options.

The phrasal verb '*break up*' has more than one meaning. One of them is 'to stop or terminate something' and the other meaning is '*to split up or separate*'.

The phrasal verb '*break off*' also has more than one meaning. One of them is 'to remove something from a larger unit' and the other meaning is 'to suddenly end something'.

The phrasal verb '*break away*' means 'to escape.'

The phrasal verb '*break out*' also has more than one meaning. One of them is 'to occur suddenly' and the other meaning is 'to escape'.

If we relate the meaning of the phrasal verbs given in the options, the one that logically fits the context is '*to split up*', which is given in option A. It is only appropriate to say that 'The final report *was split up* into three parts.' So, option A is the correct answer.

Q7) Select the most appropriate option to fill in the blank

The lady _____ purse was lost lodged a complaint at the police station

    A. Whose

    B. Who

    C. When

    D. Which

Answer: Option A

Explanation:

The word that precedes the blank is 'The lady' and the word that follows the blank is 'purse'. From the context it can be understood that 'the purse *belongs to* the lady'. So the sentence talks about the possession, the only option which talks about the possessive word is Whose

Q8) It was _____ a new experience for me to attend a zoom meeting so I planned for it_____.

    A. surely gently

    B. quite carefully

    C. occasionally basically

    D. None of the above

Answer – Option B

Explanation:

Blank 1

Quite a new experience would the right phrase than using surely, occasionally in blank 1

Blank 2

When someone is going through new experiences, one plan it carefully.

Directions (9 -10) Read the passage given below and answer questions

It's apparently the fate of humankind never to be free of writing the history of pandemics. No matter how often they occur and they do occur with great frequency we collectively refuse to think about them until circumstances demand it. Then, when the infection passes, we put it out of our minds as quickly as possible. And so, we again are Unprepared when the next contagion and this causes COVID-19 bursts upon us. Richard Conniff examines our long relationship with infectious disease from the hard lessons to us been forced to learn from the brave, and often difficult characters, who have asked their lives to save us.

Smallpox taught us that we could prevent disease through inoculation and, as the 1700's ended, vaccination. By the new 1800's cholera's lesson was about sanitation and the need for centralized water and sewer systems. About the same time, one man was all heard of, Louis Pasteur, and one many of us haven't. Robert Koch, became the co- fathers of germ theory. Tools they created are still used to identify and fight with what Conniff calls "an astonishing rogues' ' gallery of deadly pathogens. And yet here we are, again fighting on two fronts: the first against a new coronavirus sweeping the planet to devastating effects, the second, with each other, over domestic and international politics and whether we are willing to pay the price for prevention. It's an important question for our planet. while we debate, the next pandemic draws nearer.

Q9) Which statement is correct according to the passage?

    A. pandemics keep coming periodically

    B. all pandemics are not to be feared

    C. there is no solution for pandemic

    D. research about vaccines is not reliable.

Answer: Option A

Explanation:

The first and last lines of the passage talks about never ending pandemics humankind faces.

Q10) In the fourth paragraph which pandemic is the author referring?

    A. An unknown one   B.Small pox   C. COVID-19   D. Cholera

Answer: Option A

Explanation:

    If we trace back to the fourth paragraph, it is stated that 'It's an important question for our planet. While we debate, *the next pandemic* draws nearer.'

Here the next pandemic refers to the *unknown one* which is yet to occur. So, option A (An unknown one) is the correct answer.

TCS-NQT PROGRAMMING MCQ SAMPLE QUESTIONS

Q1) Eesha works for ISRO where she is involved in a mission to intercept a comet that is likely to collide with the Earth within 1 month. She is developing a C program to calculate the trajectory of the missile to be launched to intercept and destroy the approaching comet. In order to achieve the highest accuracy of the missile trajectory, what data type should she use for the variables in her equation?

A) Long int   B) Double   C)Float   D)int

Answer: Option B
Explanation: trajectory of missile should have accurate value in terms of precision so she need to use the data type with more and accurate precision which is double hence answer is B

Q2) What will be the output for the following program?

```
#include<stdio.h>
main(int argc,char**argv)
{
  printf("%s\n",argv[--argc]);
  return 1;
}
```

The above program was run with the following command line parameters

Asha usha nisha eesha

A)Nisha   B)Unable to run due to compilation error
C) No output, run time error   D)Eesha

Answer: Option D
Explanation: the command line argument takes two parameters
1st is the count of arguments including the name of program
2nd is the actual values at the command line give as input
since input is Asha usha nisha and Eesha program will be executed as
program.exe Asha usha nisha Eesha
hence the command line argument argv array
will be filled with following values at espective indices

argv[0]=> program.exe
argv[1]=> Asha
argv[2]=> usha
argv[3]=> nisha
argv[4]=> Eesha
and argc = 5
when we write argv[--argc] ===> argv[--5] ===> argv[4] ===> Eesha

Q3) What will be the output of the program?

```
#include<stdio.h>
static int x=5;
int main()
{
  x=9;
  {
    int x=4;
  }
  printf("%d",x);
}
```

A) 9
B) 4
C) Error
D) 5

Answer: Option A

Explanation:

value x=4 is within the scope of internal { } brackets (block)

so outside block x = 4 not known.

hence the value of x will be take as 9;

Q4) Predict the output

```java
import java.util.Scanner;
public class Main
{
  public static void main(String[] args)
  {
    int x = 10, y = 20;
    if (false)
      ;
  }
}
```

A) Compile time error

B) Run time error

C) No output

D) 10 20

Answer: Option C

Explanation: if the if statement ends with ;

then it is an empty block hence it will now print anything

Q5) Which of the following is not a verification activity?
A) Inspection
B) Testing
C) Walkthrough
D) Technical Review

Answer: Option B

Explanation: in the testing phase software product / module is verified for is working

against the requirements

Q6) Predict the output

```java
import java.util.Scanner;
public class Main
{
  public static void main(String[] args)
  {
    int x = 10;
    switch(x)
    {
      System.out.println("Spiderman");
    }
  }
}
```

A) Compile time error   B)Spiderman   C)No output   D)10

Answer: Option A

Explanation: switch block requires case numbers since we don't have used case statements

inside switch it will throw compile time error

Q7) Which of the following model put much more emphasis on testing?

A) Waterfall model
B) Agile Model
C) Rapid action development model
D) V-V Model

Answer: Option D

Explanation: V Model is a highly disciplined SDLC model in which there is a testing phase parallel to each development phase. The V model is an extension of the waterfall model in which testing is done on each stage parallel with development in a sequential way. It is known as the Validation or Verification Model.

Q8) Select the missing statement.

```
long int fact(int n);
int main()
{
\\missing statement
}
long int fact(int n)
{
if(n >= 1)
{
return n * fact (n-1);
}
else
{
return 1;
}
}
```

A) printf("%ll\n", fact(5));
B) printf("%u\n", fact(5));
C) printf("%d\n", fact(5));
D) printf("%ld\n", fact(5));

Answer: Option D

Explanation: since fact returns long int its %ld which is the format specifier for long int hence answer is D

Q9) When we implement stack by using linked list then :

A. Insertion of node is done from end & deletion from end
B. Insertion of node is from beginning and deletion from beginning
C. Insertion of node is done from end & deletion from beginning
D. Insertion of node is done from beginning and deletion from end

Answer: Option A

Q10) Assume Linked list as head 2 -> 4 -> 6 -> 8

```
structemp{
    int emp_id;
    structemp *next;
};
structemp *head, *next;
temp=head;
while(temp -> next != NULL)

{
    printf("%d",temp -> emp_id)
    temp = temp -> next;
}
```

What will be the output of the following program ?

A. 2460   B. 246   C. 2468   D. 246NULL

Answer: Option B
Explanation: As per the while condition variable will traverse and it will print 246 as output.

TCS-NQT CODING SAMPLE QUESTIONS

Q1) Get an integer from the user and print the reverse of that number.

Case 1	Case 2	Case 3
Input (stdin)	**Input (stdin)**	**Input (stdin)**
2324324	9754	789520
Output (stdout)	**Output (stdout)**	**Output (stdout)**
4234232	4579	25987
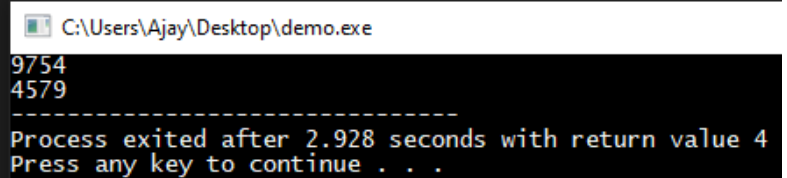
Solution:

```c
#include<stdio.h>

main()
{
    int no;
    int rev=0;
    scanf("%d",&no);

    while(no>0)
    {
        rev = rev*10+no%10;
        no = no/10;
    }

    printf("%d",rev);
}
```

```
C:\Users\Ajay\Desktop\demo.exe
9754
4579
---------------------------------
Process exited after 2.928 seconds with return value 4
Press any key to continue . . .
```

Q2) Write a Program to check whether a string palindrome or not.

Sample input:

wow

Sample output:

wow is a palindrome

Case 1	Case 2
Input (stdin)	**Input (stdin)**
apple	madam
Output (stdout)	**Output (stdout)**
not palindrome	palindrome

```c
#include<string.h>

main()
{
    char str1[100]={0};
    char str2[100]={0};
    int i;
    scanf("%s",str1);
    for(i=0;i<strlen(str1)/2;i++)
    {
        if(str1[i]!=str1[strlen(str1)-i-1])
        {
            printf("not palindrom");
            return -1;
        }
    }
    printf("palindrom");
}
```

```
C:\Users\Ajay\Desktop\2.exe
madam
palindrom
--------------------------------
Process exited after 4.571 seconds with return value 9
Press any key to continue . . .
```

Q3) Write a program to print the given string in reverse order using recursion.

Case 1

Input (stdin)

hello

Output (stdout)

olleh

Case 2

Input (stdin)

madam

Output (stdout)

madam

```c
#  include <stdio.h>

void reverse(char *str)
{
    if (*str)
    {
        reverse(str+1);
        printf("%c", *str);
    }
}

int main()
{
    char a[] = "TalentBattle";
    reverse(a);
    return 0;
}
```

```
C:\Users\Ajay\Desktop\3.exe

elttaBtnelaT
----------------------------------
Process exited after 0.04069 seconds with return value 0
Press any key to continue . . .
```

Q4) Write a program to convert decimal to octal

Case 1	Case 2	Case 3
Input (stdin)	**Input (stdin)**	**Input (stdin)**
3	76	21
Output (stdout)	**Output (stdout)**	**Output (stdout)**
3	114	25

```c
3   int main()
4   {
5       int dec;
6       int oct=0;
7       int i=1;
8
9       scanf("%d",&dec);
10
11      while(dec>0)
12      {
13          int rem = dec % 8;
14          oct += rem * i;
15          dec /= 8;
16          i = i*10;
17      }
18      printf("%d", oct);
19  }
```

Q5) Write a program to print the greatest of given three numbers.

Case 1	Case 2	Case 3
Input (stdin)	**Input (stdin)**	**Input (stdin)**
7	100	0
8	1000	1
9	-1000	-1
Output (stdout)	**Output (stdout)**	**Output (stdout)**
9	1000	1

```c
#include<stdio.h>

main()
{
    int a,b,c;
    scanf("%d%d%d",&a,&b,&c);

    if(a>b && a>c)
        printf("largest: %d",a);
    else if(b>c)
        printf("largest: %d",b);
    else
        printf("largest: %d",c);
}
```

```
C:\Users\Ajay\Desktop\5.exe
7 9 8
largest: 9
-----------------------------------
Process exited after 13.61 seconds with return value 10
Press any key to continue . . .
```