

Indian Institute of Technology
Guwahati

Techniche
The Annual Techno-Management Festival
Associate title sponsor

presents



Technothlon

the international school championship

.....Inspiring Young minds!

Hauts Squad

Team Details

Name of the participants:



1. _____
2. _____

Roll Number: _____

School Name: _____

Time: 2hrs 30min
Maximum Marks : 114.2
Minimum Marks : -30.8

Please read the instructions carefully

General Instructions

1. Fill in the Team Details in the space provided, before starting to attempt the paper.
2. Verify that the question paper contains 24 pages and 26 Questions.
3. All answers must be written in the OMR provided separately which has to be submitted at the end of the examination. The Question Paper can be taken back home.
4. All answers must be clear and legible. In case of any ambiguity, the decision of evaluator is final.
5. No queries regarding the correctness of the questions shall be entertained.
6. Blank papers, clipboards, log tables, slide rulers, calculators, cellular phones, pagers and any other electronic gadgets are not allowed.
7. No additional sheets will be provided for rough work.

Selection Criteria and Result

1. The ranking will be based on the total marks obtained in all the sections.
2. The result will be declared on or before August 11, 2014 on our website techniche.org/technothlon. To check your result, login with your roll number.
3. The top 50 teams will be invited to IIT Guwahati for the Mains and will be awarded Gold certificates. The next 200 will be awarded Silver certificates.

OMR instructions

1. DO NOT TAMPER WITH THE OMR.
2. Darken the bubbles properly by **BLACK** ball point pen only.
3. Fill all the details in the OMR sheet properly.
4. Follow the correct method as shown in the figure to fill in the OMR Sheet.

Wrong Methods				
1	<input checked="" type="checkbox"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2	<input type="radio"/>	<input checked="" type="checkbox"/>	<input type="radio"/>	<input type="radio"/>
3	<input type="radio"/>	<input type="radio"/>	<input checked="" type="checkbox"/>	<input type="radio"/>
4	<input type="radio"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="radio"/>

Correct Method				
1	<input type="radio"/>	<input type="radio"/>	<input checked="" type="checkbox"/>	<input type="radio"/>

Please read the instructions carefully

Question paper format

1. There are 22 single answer type objective questions. You need to bubble the correct option in the OMR.
2. There are 4 integer type questions where you need to bubble the correct digit in the OMR.

Marking Scheme

Climb and fall scheme – for Puzzles section

This scheme consists of 6 types of marking schemes. You start with the type 1 marking scheme. As and when you answer the question correctly, you automatically move on to the type 2 marking scheme and so on. However, if you break the sequence and attempt the question wrongly, you again start from the type 1 sequence and move henceforth.

- Type 1: (+2,0)
- Type 2: (+3,-1)
- Type 3: (+4,-2)
- Type 4: (+5,-3)
- Type 5: (+6,-4)
- Type 6: (+7,-5)

Remaining sections

What if you get to decide the marking scheme of other sections yourself. So, here you have 2 marking schemes in hand. Go ahead with the one which you like the most.

- Type 1: (+2.5,0)
- Type 2: (+4,-1)

Note:- (+x,-y) represents x marks will be awarded for correct answer and y marks will be deducted for wrong answer.

Betting – not for all the sections

Ever tried your luck at betting. How confident are you about your answers? Bet them. If correct, you get an additional 20% of the points you scored in that section. But, if you go wrong, your score gets reduced by 30%(i.e 30% of maximum marks that can be obtained in that section). Keep in mind, betting is not at all a compulsion. However, if you won't have confidence on your answers, who do you think will? So, buck up young minds and bet in as many sections as you can. Betting will fetch you marks if all the questions in that section are correct.

Note:-In case of anomaly in any question, you will be awarded the maximum possible marks for it. Choose the betting option and Marking scheme in the space provided in the OMR sheet.



Now-a-days people are purchasing many goods through online shopping. By purchasing goods through online shopping, they can get their goods at reasonable prices. Snapdeal is one of the biggest and popular online shopping portals. According to Anuj, the manager, "Snapdeal offers "snapdeal coupons" using which prices can be further reduced. We follow a unique strategy to give coupons to customers". When Aishwarya, a customer, purchased a product, the following table was displayed.

A			D		F	
	D	F		J		N
C			L			
D	H	L		T		
			T		D	I
F	L					
		U	B		P	

They asked him to construct a sequence in this format. The terms are based on only diagonal elements. For a particular diagonal element, the term in the sequence is formed by adding all previous diagonal alphabet numbers to that diagonal alphabet number. The coupon code is known by the price of the product. Eg: If sequence is ABCD..... and the product price is 143. The coupon is ADC

Question 1

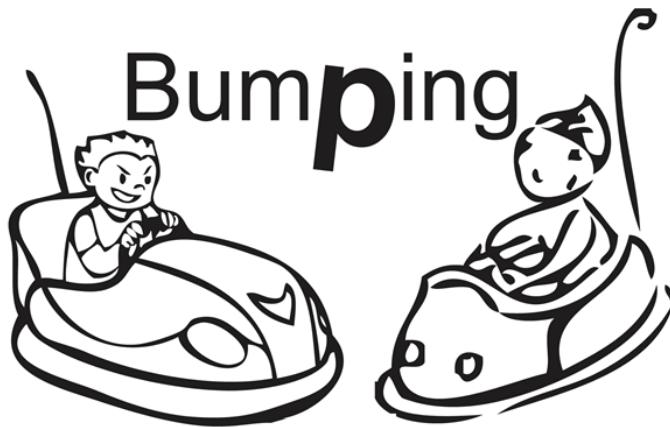
The seventh term in the sequence is

- A) I
- B) J
- C) P
- D) Q

Question 2

If Aishwarya wants to purchase a laptop of price 46645, then coupon code is

- A) IHSIR
- B) UNNIM
- C) LETNI



Bumping

Betting is available

Midhul and seven of his friends go to Accoland, a famous amusement park in Guwahati. Against all odds they decide to play bumper cars. The available cars are of various colours blue, green, purple & red, and luckily there are exactly two of each colour. Hence, they decide to form teams of two, with each team occupying the cars of one particular colour. Midhul & Saichran are team-mates and so are Mayank & Kenil. The game proceeds and each member tries to bump as many opponent team members as possible. Team-mates obviously do not bump each other(not even by accident).

If player A bumps player B, then player B will immediately take revenge and bump player A. The game comes to an end, and everyone enjoys themselves thoroughly. Midhul bumped Mayank just before the game ended. He is curious to know the status of the other players. He goes around and asks everyone (other than himself) how many distinct players they have bumped. Surprisingly, each of them gives a different answer (they have very good memory, and are completely honest) Answer the following questions:

Question 3

How many distinct players did Saicharan bump?

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

Question 4

How many distinct players did Midhul bump?

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

Question 5

Saicharan bumped:

- A) Both Mayank & Kenil
- B) Mayank but not Kenil
- C) Kenil but not Mayank
- D) Neither Kenil nor Mayank

SLIDING



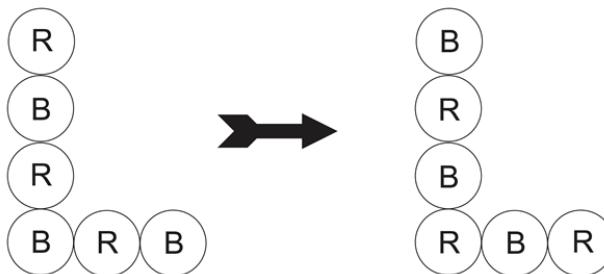
Abhishek, father of Rishi gives him a big box of chocolates. However, before handing over the box to Rishi, Abhishek asks him to solve the Sliding Coins puzzle. Sliding coins is a puzzle in which an arrangement of coins is rearranged to another arrangement by sliding one coin at a time. There are following rules are according to which the rearrangement has to be done.

- All coins are of the same size and shape, i.e., circular
- All coins lie in a plane and cannot be kept one over the other.
- A move involves sliding a coin to a new position that touches at least two other coins without disturbing any other coin during its motion.

Here is the puzzle which Rishi has to solve. Can you help him rearrange the arrangement at the left to that at the right given in the questions that follow?

Question 6

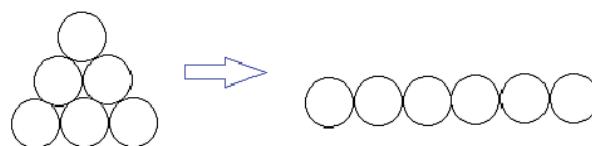
How many minimum number of moves are required to complete the task?



- A) 9 B) 11 C) 14 D) None of these

Question 7

How many minimum number of moves are required to complete the task?



- A) 6 B) 7 C) 8 D) None of these



Question 8

In the game show, 'Who wants to be a millionaire', Aarrushi has reached into the last stage of the game where she is required to answer a question that will make her win 1 million pounds. Akhil, the host of the show asks the following question to her, "I can give you money in orders of 6, 9 and 20 pounds. What is the largest amount of money I cannot give you?"

What should be Aarrushi's answer so as to be declared the winner of the show?
(How to answer? Answer the largest amount of money. Eg: if the answer is 12, then mark your answer as 0012)

Question 9

Jayadeep, a great archaeologist is trying hard to reconstruct the map of an ancient old kingdom. The kingdom was very large and consisted of many cities (between 180 and 200), which were connected to each other through one-way roads. After doing a lot of research, he finds some interesting clues. Each road had a fixed source city (start point) and a fixed destination city (end point), and the traffic is allowed to move only in the direction from the source to the destination. Further, no two roads can have the same source and destination (i.e. they are not identical). The kingdom is well connected such that between any two cities, there exists either a path with two roads or a path with a single road but not both. Also, for all cities there is always a route with exactly two roads, which starts at the given city and ends at the same (a loop). How many cities are there in the kingdom?

(How to answer? Answer the number of cities. Eg: if the answer is 100, then mark your answer as 0100)

Question 10

One day Sumeha challenged Abhilasha to solve a new type of code that she had developed. She gave her a few clues about how the code works by giving her a few examples:

1. abc → acb → aaa → aaa → aaa
2. bcd → cbd → ddd → ddd → ddd
3. abcd → acac → acac → acac → acac
4. habit → baiai → aabai → aaaaa → aaaaa

In the above examples, the words have been transformed according to the logic of the code four times. When the word "TECHNICHE" undergoes the same logical transformation thrice, what is the word that Abhilasha obtains?

- A) Eineeneih B) Eeeiheiee C) Heeeeeeee D) Ieeeeeihe

Question 11

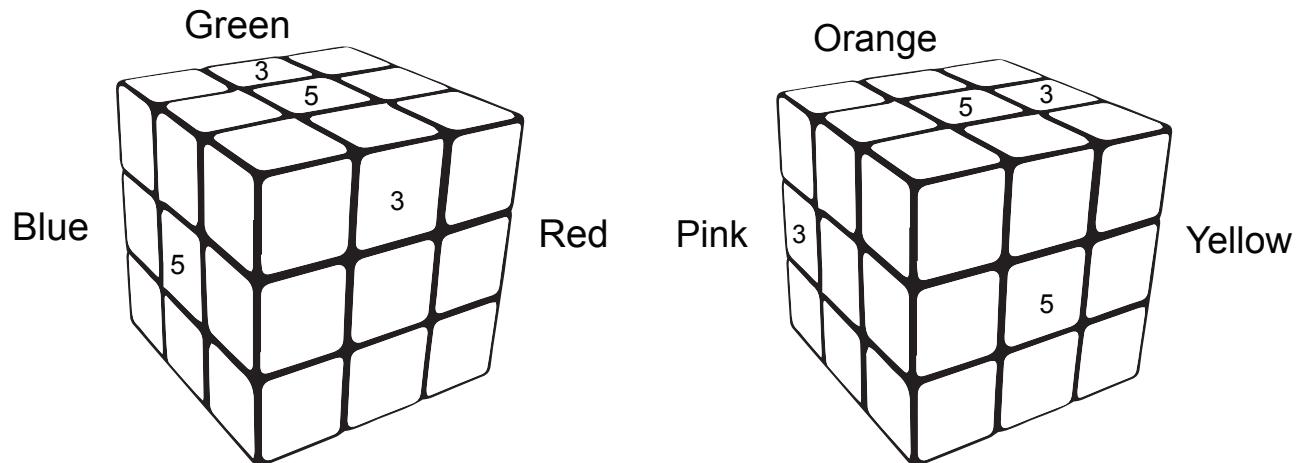
Consider a Rubik's (3x3x3) cube with its faces having the colors green, blue, orange, yellow, red and pink such that

- Blue is adjacent to green but not to yellow
- Green is adjacent to red but not to orange
-

It is known that some of the small cubes of the Rubik's cube are defective. Here are some clues to identify them.

A number is mentioned on some of the cubes. This number implies the number of defective cubes among the cubes touching the cube on which the number is written. (For example: number of cubes touching center cube of the entire Rubik's cube is 26)

So here are the faces of Rubik's cube with numbers on some of the cubes.



What are the number of defective pieces?

- A) 8 B) 12 C) 16 D) 9

Question 12

There are 5 persons who are trapped in 5 different elevators. There are 49 floors in the building. The 5 persons are respectively on 17th, 26th, 20th, 19th, 31st floors. The elevator doors open only when all the elevators are between 21st and 25th floor in descending order. There are 2 buttons +8 and -13 that will be activated only when 2 elevators are selected together. The person on the 19th floor decides to take charge and get all of them out. What is the minimum number of moves in which he can accomplish the target?

- A) 10 B) 12 C) 14 D) 16

Question 13

Raghav has a great interest in Mathematics and is currently pursuing his B.tech in Mathematics and Computing at IIT Guwahati. He also does a part time job at Barbeque Nations. One day, Sumeet along with six of his best friends, Shreyas, Minkush, Shubham, Adesh, Umang and Snehit went to the restaurant for his birthday treat. They sit in the same order as their names have been listed above. Sumeet ordered a 420mL bottle of cranberry juice which has to be shared by all the 7 friends. Raghav in order to amaze them with his mathematical skills, went to each one of them and divided the juice in the 7 glasses unequally. He then asked Sumeet to divide his share into 6 equal parts and pour it into the glasses of rest of the 6 friends. In exactly the similar way, Raghav told Shreyas to divide his present share into 6 equal parts and pour it into the glasses of rest of the 6 friends. This went up in the same order as they are sitting, till all of them had done the same task. After all this sharing, the 7 friends still had the same amount that they had right in the beginning. Can you tell how much juice was served to Minkush?

(How to answer? Answer the amount of juice(in mL).Eg: if the answer is 80,then mark your answer as 0080)

Illuminated

Desh had recently read the novel ‘Angels and Demons’ and he was vastly impressed by the ancient brotherhood of Illuminati, a secret cult who believe “Science is the new God.” Being an enthusiast of Science, he researched about the organization in a hope to join it and was able to track their roots in modern-day Germany. He mailed to the Master Sabazius and Sabazius replied with a set of tasks for Desh’s initiation into the brotherhood.

TASK 1

The Illuminati consider the numbers 11, 13 and 33 as sacred. Sabazius has presented Desh with 11 cards (numbered 1 to 11) each having a unique positive integer, and the sum of numbers on all the cards equals 3313. The first 10 cards have numbers forming an increasing sequence, and the 11th card has a number which is greater than the number on the 10th card by n .

To guess the sequence, Sabazius wrote: The world is about duality. To become an Illuminatus, you must be twice the man you are now.

To find n , Desh is posed with the following statement: n is the largest 3-digit number that is a fifth power.

Desh must choose 3 cards among the 11, in such a way that the numbers on the cards chosen add up to 1333. There is only one way this can be done.

Question 14

What is the sum of the card numbers required to get the sum as 1333? (E.g. if cards 2,4,5 are required, answer should be 11.)

- A) 24 B) 18 C) 16 D) 10

TASK 2

The Illuminati cult has a total of n (same as the earlier n) members presently. The members are divided into 3 classes: Novice, Minerval, and the Illuminated. Each class consists of a different number of members.

Novice consists of groups of 11 each.

Minerval consists of groups of 13 each.

Illuminated consists of groups of 33 each.

Desh is further told that Novice has the maximum number of groups and Illuminated has the minimum. Moreover, each class has a composite number of members.

Question 15

Which class must Desh join such that even after his initiation, the number of members in all the classes remains composite?

- A) Novice
- B) Minerval
- C) Illuminated
- D) None of these

TASK 3

Supervising all the ' n ' members is a group of 4 Masters called the Elite. The 4 are Sabazius, Baldur, Gerold and Dagmar. Sabazius is willing to initiate Desh directly into the Elite group, provided he can solve the third riddle.

For a ritual of the Elites, the 4 Masters have come together and are staying at the Leonardo Royale hotel. Desh has been invited to the hotel as the fifth Master.

The hotel consists of 5 rooms and a small restaurant that contains 5 tables. Each Master has a rank, which shows his level of thinking with respect to the whole group. The master with the first rank is said to be the Grand Master, and it is not Desh. Rooms, as well as tables, are successively numbered from 1 to 5 in a way that each Master lives in a room and sits at a table different in number from his rank. To avoid confrontation, Masters with successive ranks are allowed neither to live in rooms next to each other nor to eat at tables next to each other. To become an Elite, Desh just has to figure out his rank, room no. and table number. It is known that:

- Sabazius does not eat at the fifth table.
- Baldur is not the Grand Master.
- Sabazius has exactly the middle rank between Dagmar and Desh.
- Baldur is more intelligent than Sabazius.
- Gerold eats at a table next to Baldur.
- Dagmar does not eat on a table with the same number as his room number.

Question 16

What is Desh's table number among the Masters?

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

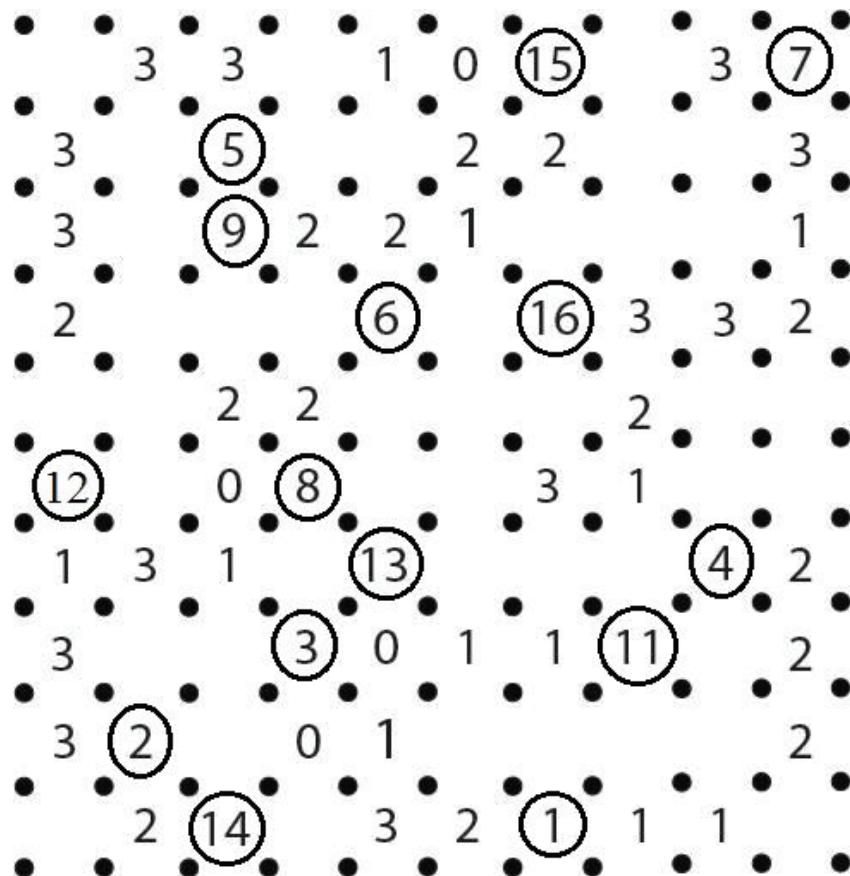


Betting is available

The given maze represents a grid where each block represents either land or water. The numbers (Not the encircled numbers) in some of the blocks denote the number of land-water boundaries surrounding that block. The blocks of land form one continuous mass, i.e., an island. The entire grid is surrounded by water.

The encircled numbers denote people who are either trapped on the island or drowned in the water depending on the block in which they are present.

HINT: For the blocks of land to form one single mass, the land-water boundary should form a closed, continuous loop.



Question 17

If a rescue helicopter flies over the island to save survivors, how many people can be saved? (Hint: Drowned people cannot be rescued.)

- A) 5
- B) 6
- C) 7
- D) 8

Question 18

If 3 of the survivors are named Dulton, Harsh and Aneesh, what might be the name of one of the remaining survivors?

[HINT: I am a man connected to the number allotted to me,
start taking my name and you have found me]

- A) Bhavin
- B) Keshav
- C) Nikhil
- D) Rishab

Now, write the saved person's number in a sequence such that a survivor in Row 1 Col 1 (if there are any) comes first, one in Row 1 Col 2 comes second and so on. Note that not every row contains a survivor. Further, one row may contain multiple survivors. Repeat the last 3 terms of the sequence infinitely. The sequence thus obtained is called a Hailstone Sequence.

Hailstone sequences are called so because they go up and down just like a hailstone in a cloud before crashing to the earth – like the repeating tail of the sequence. These are easy to describe but are one of Maths' unsolved problems.

Question 19

Ajay's teacher has assigned him the task of finding the general rule of the above sequence. Using this, he needs to figure out the number of terms between the first term and the first occurrence of 1 (both exclusive) if the sequence starts from 13.

Can you help Ajay with this task?

- A) 4
- B) 6
- C) 8
- D) 10

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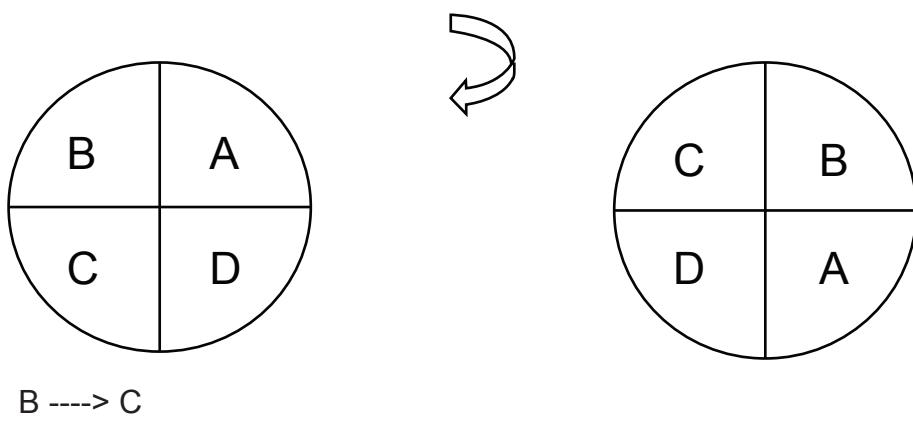
Question 20

Following paragraph describes a way to encode a message:-

Consider 4 letters of alphabet (A,B,C,D). Place these letters along a wheel in anticlockwise direction such that each letter subtends an angle of 90 degrees (this wheel would have 4 spokes) at the centre. Now the positions to which the letters correspond to is like if we want to encode 'BAD', 'B' would correspond to position 1, 'A' to position 2 and 'D' to position 3.

Now, the wheel is rotated by "angle subtended * position number" for each letter and the new letter at that position of wheel would give us the code for the letter previously present at that position.

In the above example, since B comes at position 1 we would rotate the wheel by "90*1=90 degrees clockwise" to get our code as explained in the figure.



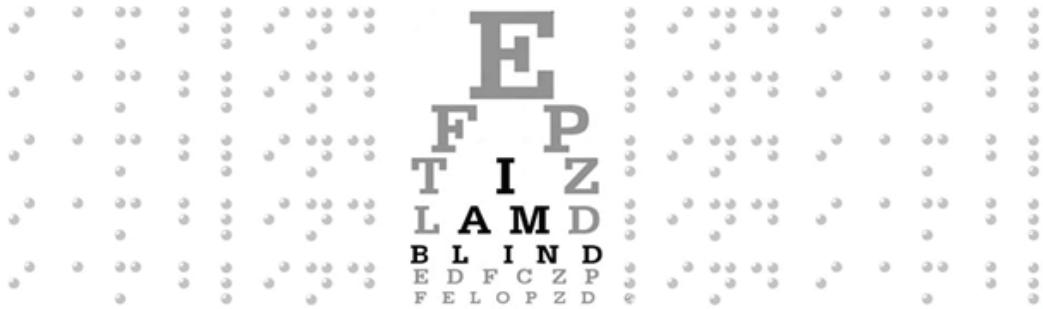
this would encode our 'B' to 'C'. similarly 'BAD' would convert to 'CCC'.(it might seem awkward that 3 letters get encoded to same letter. think carefully you will realise it's very simple indeed)

Now consider 26 alphabets and 10 numbers, alphabets in order from A to Z followed by numbers from 0 to 9 such that you have 36 characters in all. and now use the above to decode the following message.

(obviously this time the angle subtended would be $360/36=10$ degrees and our wheel would have 36 spokes.)

'H JLR9 NUW'

How many Consonants are there in the message that you have decoded?



Seven Blindfolded prisoners are pushed onto a hanging platform, which is open at both the ends. Below, there is a large pool of volcanic lava which is hot enough to instantly kill upon contact. The metal surface of the platform is steaming hot, so the prisoners must constantly walk at a minimum speed of 0.5m/s, to ensure that their legs are not burnt. Two prisoners walking in opposite directions, upon collision will reverse direction but continue to walk at the same speed. It is obvious that eventually all of them will fall off the platform. The platform is 11m long, and the initial positions of the prisoners are as shown in the figure, but their initial directions (i.e. left or right) may be different. Solve the following questions running through the prisoner's mind.

Question 21

Clearly, the total time taken for all the prisoners to fall off the platform depends on the initial orientation of each of the prisoners. Prisoner A notices that if they orient themselves in a particular manner, the total time can be maximized. What is the maximum possible total time?

Question 22

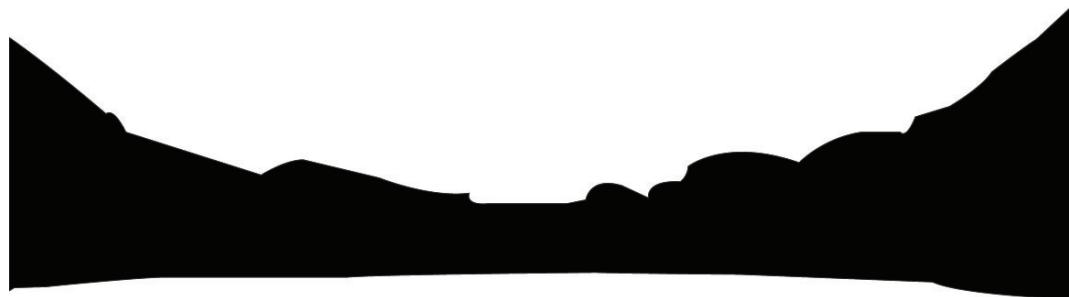
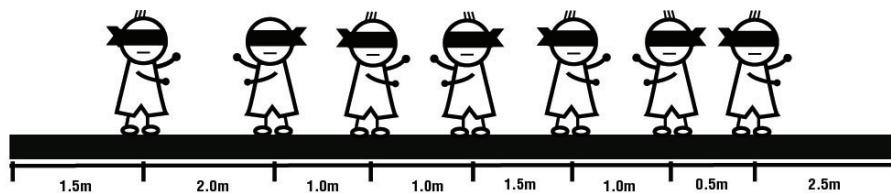
Prisoner B (the one with the bald head) is of the greedy kind, and thinks only for himself. The time taken for prisoner B to fall off the platform depends not only on his initial orientation but also on the initial orientation of the rest of the prisoners. What is the maximum time for which Prisoner B can stay alive?

- A) 11 (B) 13 (C) 17 (D) None of these

Question 23

Prisoner C on the other hand is an accomplished mathematician. He is not worried by any of these “worldly” issues. Rather, he would like to spend the last few minutes of his life solving an interesting math problem. His favourite number is 13, and he would like to find out how many distinct initial orientations of prisoners would lead to a total of 13 collisions before all of them fall off. What is the answer to this problem?

- (A) 0 (B) 2 (C) 3 (D) 1



Coded Pillar

Betting is available

In an attempt to find more information about the first British voyage to India, two archaeologists Niraj and Venkat went on a excavation journey. On reaching a rather denser part of the forest, both of them fell down in a very deep moss covered cave, following through the cave they reached a door in front of which was kept a pillar with some inscribes. Going through it vigorously and carefully they were able to deduce that it was a kind of coded puzzle pillar. After more investigation around the pillar, delicate sampling and detailed analysis they came down to this, that the pillar dated further back in time than the first reported voyage of the British in India. The complete understanding of the pillar might bring about quite a big change in Medieval Indian history. The decoding of this is also really important at this moment because this code and the door behind it is their only way out the cave, and they are running out of supplies. Help them solve the mysteriously coded pillar.

Pillar is

FACE 1		FACE 2		FACE 3		FACE 4	
N	H	U	R	W	A	A	R
F	N	A	E	A	R	M	T
I	E	M	S	I	S	I	Y
Y	E	H	D	D	O	N	A

Properties

- This is a pillar which is square in shape from top view.
- It has a property that each row can rotate about the vertical axis.
- Each column (adjacent columns) connected with the edges are always together and can be interchanged with the other edge columns.

Example

FACE 1		FACE 2		
A		B	I	J
C		D	K	L
E		F	M	N
G	1	2 H	O 3	4 P

Here 2 & 3 are always together. And 1 & 4 are always together and can be interchangeable with 2 and 3.

Question 24

The code represents a sentence. Find the number of words in above sentence.
(Note: Sentence or word will form like this:-

H	E	D	U
L	P	D	E

Here word is “ HELP DUDE ”.

Question 25

What are the minimum number of moves required to get the final sentence?

Question 26

When you divide the preceding number alphabet with succeeding number alphabet (get the remainder) and then sum it. What corresponding alphabet you get for that number if A-Z has been numbered from 1-26 respectively.

A word from the Organizers of Technothlon 2014

Congratulations!

You just attempted a paper which has been argued as one of the most competitive examinations conducted for the school students in India and abroad. As you sat behind your desks, scratching your pens and brains, spending your last two and half hours attempting the paper in front of you, along with lakhs of your peers all over the globe, hundreds of thoughts might have crossed your minds. We too while making this paper had our own set of apprehensions and doubts. Often during the course of preparation of the paper, we did ask ourselves a few questions: "Is the paper too tough? Will the students find it interesting to solve the paper? Are the questions too arbitrary?"

However, finally when the question paper reached into its final stage as is before you, all our anxieties got wiped off. The paper has been so designed that you along with your partner can solve all the questions within the stipulated time. Also, you do not need to be the alter ego of Albert Einstein to solve the paper. Our motto is to inspire all the young minds who write the paper and with that sole intention do we frame the questions so that we can select the best and the brightest buddies of our nation. Having a decade long experience of inspiring young minds worldwide, this eleventh edition of Technothlon prelims comes close to testing the mental prowess that a student requires to become a world leader and in turn inspire as many young minds as he/she can.

Making it through the preliminary round definitely adds another feather to your hat. However, don't lose hope if you somehow don't manage to make it to the top notch because one sheet of paper cannot decide your future. As has been aptly quoted by Conrad Hilton, "Success seems to be connected with action. Successful people keep moving. They make mistakes, but they don't quit". We do hope that you will positively take up this challenge, again come back next year and clear one of the most competitive exam.

This paper which lies in front of you is the fruit of the countless number of hours of effort put in by our team members. You might have observed quite a few names making their appearance in the questions. Those are the names of Technothlon team members who have worked so diligently day and night and put in their heart and soul to make the question paper right from scratch to its present form. As you might see, they have done a commendable task! We do hope that you will enjoy solving the paper as much as we did while preparing it!

Good luck for your future ahead!

An open invitation for a lifelong association with Technothlon

Before you feel like you have reached the end of a sensation, we should remind you that this is merely the beginning! The Technothlon community has been growing at a phenomenal rate, and we invite YOU, the future leaders of the country, to be a part of it. Regardless of whether you make it through to the final round or not, we cherish the opportunity to interact with every one of you. Facebook is our means of reaching out to the student community. Be connected, stay updated!

We are eager to help through counselling of any kind required in any sphere by utilizing the experienced pool of IITians and highly qualified faculty of IIT Guwahati. And finally, we would be glad to receive any constructive feedback about the question-paper or any general issue that you would like to discuss with us. After all, your feedback is what Technothlon thrives on for improvement.

Chief Organising Team

Bhavin Mandalaywala
Sayantan Dutta

Himanshu Goyal
Mohammed Zilani
Rajesh Uppala

Ashima Jain
Rahul Kadyan

Contact us at

www.techniche.org/technothlon/
<http://technothlon.tumblr.com/>
<https://plus.google.com/+technothlon>
<https://www.facebook.com/technothlon.techniche>



Started fifteen years ago in 1999, Techniche was conceptualized with an aim to motivate the youth of our nation to think out of the box, expand their horizons and reach the zenith of success in all techno management spheres. It has stayed true to its vision since, and from its humble beginnings, Techniche now reveals in being one of the premier techno management festivals of the nation.

• **Lecture series :**

A signature dish that is served at Techniche is the Lecture Series, which serves as a platform that allows illustrious figures from all walks of life to come under one roof and share their experiences and ideas with the next generation. Students and professors, participants and school children alike, all clamour into the auditorium to have their lives inspired by the likes of **John C. Mather (The 2006 Physics Nobel Laureate)**, **Pat Spain (Host of the show, Beast Hunter on National Geographic)**, **Jonathan Grudin (Principal Researcher, Microsoft Research)**.

• **Industrial conclave :**

The Industrial Conclave provides a quintessential platform for young entrepreneurs and budding corporates to broaden their horizons and understand the internal dynamics of the ever growing industry. After successfully organizing three editions in the past, which saw the likes of Mrs. Anu Aga (ex-Chairperson, Thermax), Prabhu Chawla (Editorial Director, The New Indian Express).

• **Spell Bee :** In association with India Spell bee

We welcome you to 'spell' the beans here at Techniche, IIT Guwahati, as we conduct our very own first Spelling Bee this year.

Prizes worth Rs. 75,000/-

• **Robotics Module :**

The Robotics module of Techniche 2014 provides you a platform to bring forth new ideas and produce novel technologies in the quest to build the perfect machine. So, put your thinking caps on and let the creative juices flow. With new events in the pipeline, the competition is set to be the ultimate test in skill and design. So, cover all the bases and get the dynamics right to make your bot the best of the lot.

• **Exhibitions :**

Techniche witnesses unique exhibitions like Robosoft Systems, ASET Robotics, Light Logics TouchMagix, Amar Chitra Katha, Indian Army, Indian Railways, NDRF and DRDO. These are great learning experience as well as brilliant showcases from various fields of innovation. Join us this Techniche as we exhibit brilliance.



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