

2023 NATA 2nd Attempt Shift 1

S No.1			
Item Code	Question Type	Ans Key	Marks
4114001	MCQ	C	1
The largest number that divides 70 and 125, which leaves the remainders 5 and 8, is:			
A. 65 B. 15 C. 13 D. 25			

S No.2			
Item Code	Question Type	Ans Key	Marks
4114002	MCQ	B	1
If $P(A \cap B) = 70\%$ and $P(B) = 85\%$, then $P(A/B)$ is equal to:			
A. 17/14 B. 14/17 C. 7/8 D. 1/8			

S No.3			
Item Code	Question Type	Ans Key	Marks
4114003	MCQ	B	1
The base diameter of a metallic cylinder is 18cm and its height is 24 cm. It is melted into cylinders of base diameter 12 cm and height 6 cm. How many such small cylinders are formed?			
A. 10 B. 9 C. 8 D. 7			

S No.4			
Item Code	Question Type	Ans Key	Marks
4114004	MCQ	D	1
The difference between a two-digit number and the number obtained by interchanging the positions of its digits is 27. What is the difference between the two digits of that number?			
A. 9 B. 6 C. 12 D. 3			

S No.5			
Item Code	Question Type	Ans Key	Marks
4114005	MCQ	C	1
The produce of a square field when sold at the rate of Rs. 1.50 per 100 sq. meters fetches Rs. 1350. What will be the cost of putting a fence all-round the field at the rate of 50 paise per meter?			
A. Rs.549 B. Rs.575 C. Rs.600 D. Rs.675			

S No.6			
Item Code	Question Type	Ans Key	Marks
4114006	NAT	40	1
A small village, having a population of 5,000 requires 75 litres of water per head per day. The village has got an overhead tank of measurement 40 m × 25 m × 15 m. For how many days will the water in the tank last?			

S No.7			
Item Code	Question Type	Ans Key	Marks
4114007	NAT	750	1
Seven cubes of same volume having side 5 cm are joined end to end. Find the Surface area of the resulting cuboid. (Answer to be provided in cm ²)			

S No.8			
Item Code	Question Type	Ans Key	Marks
4114008	NAT	0.77	1
A box contains 5 red marbles, 8 white marbles and 4 green marbles. One marble is taken out of the box at random. What is the probability that the marble taken out will be not green?			

S No.9			
Item Code	Question Type	Ans Key	Marks
4114009	NAT	2.74	1
A metallic sphere of radius 4.2 cm is melted and recast into the shape of a cylinder of radius 6 cm. Find the height of the cylinder.			

S No.10			
Item Code	Question Type	Ans Key	Marks
4114010	NAT	24	1
The difference between two positive numbers is 5 and the sum of their squares is 73. Find the product of these numbers.			

S No.11			
Item Code	Question Type	Ans Key	Marks
4124011	MCQ	B	1
<p>Statement: Sound wave cannot propagate through a vacuum but light can</p> <p>Reason: Sound wave cannot be polarized but light can</p> <p>A. Both statement and reason are true and the reason is the correct explanation of the statement</p> <p>B. Both statement and reason are true but the reason is not the correct explanation of the statement</p> <p>C. Statement is true but the reason is false</p> <p>D. Both statement and reason are false</p>			

S No.12			
Item Code	Question Type	Ans Key	Marks
4124012	MCQ	D	1
<p>A convex lens is dipped in a liquid whose refractive index is equal to the refractive index of the lens. What is its focal length?</p> <p>A. Focal length will become zero</p> <p>B. Focal length will reduce , but not become zero</p> <p>C. Remains unchanged</p> <p>D. Focal length will become infinite</p>			

S No.13			
Item Code	Question Type	Ans Key	Marks
4124013	MCQ	A	1
<p>The hearing range of human ear is</p> <p>A. 20 Hz to 20000Hz B. less than 20 Hz C. more than 20,000 Hz D. 20 Hz to 25,000 Hz</p>			

S No.14			
Item Code	Question Type	Ans Key	Marks
4124014	MCQ	C	1
<p>Which of the following factors does the intensity of light depend on?</p> <p>A. Frequency B. Wavelength C. Amplitude D. Velocity</p>			

S No.15			
Item Code	Question Type	Ans Key	Marks
4124015	MCQ	B	1
<p>In a thermal power station, coal is used for the generation of electricity. How does the energy change from one form to another before it is transformed into electrical energy?</p> <p>A. Mechanical energy> Heat energy> Electrical energy B. Heat energy> Mechanical Energy> Electrical Energy C. Electrical Energy > Heat energy> Mechanical energy D. Heat energy> Electrical energy> Mechanical energy</p>			

S No.16			
Item Code	Question Type	Ans Key	Marks
4124016	NAT	360	1
<p>At resonance air column of length 20cm resonates with a tuning fork of frequency 450Hz. Ignoring end correction, the velocity of sound in air is? (Answer to be given in m/s)</p>			

S No.17			
Item Code	Question Type	Ans Key	Marks
4124017	NAT	5	1
<p>Standing waves are produced in 10m long stretched string. If the string vibrates in 5 segments and wave velocity is 20m/s, its frequency is? (Answer to be given in Hz)</p>			

S No.18

Item Code	Question Type	Ans Key	Marks
4134018	MCQ	D	1

Total surface area of a cube having sides "L" is given by

- A. $L \times B \times H$
- B. $2(LB+BH+LH)$
- C. $LB+BH+LH$
- D. $6L^2$

S No.19

Item Code	Question Type	Ans Key	Marks
4134019	MCQ	B	1

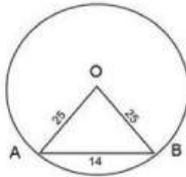
A hyperbola has _____ vertices and _____ foci.

- A. two, one
- B. two, two
- C. one, one
- D. one, two

S No.20

Item Code	Question Type	Ans Key	Marks
4134020	MCQ	D	1

Circle with center O and radius 25 cms has a chord AB of length of 14 cms in it.
Find the area of triangle AOB.



- A. 121 cm^2
- B. 144 cm^2
- C. 156 cm^2
- D. 168 cm^2

S No.21

Item Code	Question Type	Ans Key	Marks
4134021	MCQ	A	1

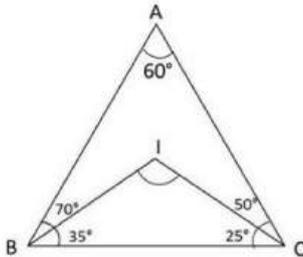
Rhombus of side 6 cm has an angle equal to the external angle of a regular octagon. Find the area of the rhombus.

- A. $18\sqrt{2} \text{ cm}^2$
- B. $9\sqrt{2} \text{ cm}^2$
- C. $15\sqrt{2} \text{ cm}^2$
- D. $12\sqrt{2} \text{ cm}^2$

S No.22

Item Code	Question Type	Ans Key	Marks
4134022	NAT	120	1

Triangle ABC has angles $A = 60^\circ$ and $B = 70^\circ$. The in-center of this triangle is at I. Find angle BIC. (Provide answer in degrees)



S No.23

Item Code	Question Type	Ans Key	Marks
4134023	NAT	5	1

A glass of cylindrical shape has radius of 3.5cm and height equal to 8cm. A water jug has a volume equal to 1540cm^3 . How many times the water has to be poured from glass to fill the jug completely? (Take $\pi = 22/7$)

S No.24

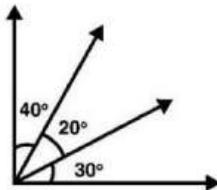
Item Code	Question Type	Ans Key	Marks
4134024	NAT	6	1

A box of dimensions 25cm x 30cm x 45cm is to be painted. A container which contains colour has a capacity to paint 1075cm^2 . How many containers are required to paint the box completely?

S No.25

Item Code	Question Type	Ans Key	Marks
4134025	NAT	6	1

Find the number of angles in the following figure.



S No.26			
Item Code	Question Type	Ans Key	Marks
4144026	MCQ	B	1
<p>Select the opposite of the underlined word.</p> <p>'The members thought that the task was <u>feasible</u>.'</p> <p>A. Impossible B. Impractical C. Difficult D. Cheapness</p>			

S No.27			
Item Code	Question Type	Ans Key	Marks
4144027	MCQ	A	1
<p>Select the meaning of the word given below.</p> <p>DISTINCTION</p> <p>A. Difference B. Diffusion C. Disagreement D. Degree</p>			

S No.28			
Item Code	Question Type	Ans Key	Marks
4144028	MCQ	A	1
<p>Find out that word, the spelling of which is WRONG.</p> <p>A. Tution B. Passion C. Ration D. Fashion</p>			

S No.29			
Item Code	Question Type	Ans Key	Marks
4144029	MCQ	B	1
<p>In questions given below out of four alternatives, choose the one which can be substituted for the given sentence.</p> <p>“Of outstanding significance.”</p> <p>A. Rational B. Monumental C. Evident D. Ominous</p>			

S No.28			
Item Code	Question Type	Ans Key	Marks
4144028	MCQ	A	1
<p>Find out that word, the spelling of which is WRONG.</p> <p>A. Tution B. Passion C. Ration D. Fashion</p>			

S No.29			
Item Code	Question Type	Ans Key	Marks
4144029	MCQ	B	1
<p>In questions given below out of four alternatives, choose the one which can be substituted for the given sentence.</p> <p>“Of outstanding significance.”</p> <p>A. Rational B. Monumental C. Evident D. Ominous</p>			

S No.30			
Item Code	Question Type	Ans Key	Marks
4144030	MCQ	D	1
<p>Fill in the blank from the options given below:</p> <p>'Fate smiles _____ those who untiringly grapple with stark realities of life.'</p> <p>A. over B. under C. with D. on</p>			

S No.31			
Item Code	Question Type	Ans Key	Marks
4154031	MCQ	D	1
<p>After reading the given TEXT answer the 4 questions based on the text by choosing the appropriate option.</p> <p style="text-align: center;">TEXT</p> <p>About the year 1900, a small, dark-haired boy named Charles Chaplin was often seen waiting outside the back entrances of London theatres. He looked thin and hungry but his blue eyes were determined. He was hoping to get work in show business. He could sing and dance. His parents were music-hall performers and he had been born into the life of the theatre. And, although his own boyhood was painfully hard, he knew how to make people laugh.</p> <p>His own father had died from drinking too much. And his mother was not really able to look after Charles and his older half-brother, Sid. She was often sick in mind and had to be sent into hospital.</p> <p>Why was Charlie Chaplin often seen waiting outside the back entrances of London theatres?</p> <p>A. He was cold and hungry B. He wanted to get inside C. His mother was performing D. He wanted to work in show business</p>			

S No.32			
Item Code	Question Type	Ans Key	Marks
4154032	MCQ	D	1
<p>After reading the given TEXT answer the 4 questions based on the text by choosing the appropriate option.</p> <p style="text-align: center;">TEXT</p> <p>About the year 1900, a small, dark-haired boy named Charles Chaplin was often seen waiting outside the back entrances of London theatres. He looked thin and hungry but his blue eyes were determined. He was hoping to get work in show business. He could sing and dance. His parents were music-hall performers and he had been born into the life of the theatre. And, although his own boyhood was painfully hard, he knew how to make people laugh.</p> <p>His own father had died from drinking too much. And his mother was not really able to look after Charles and his older half-brother, Sid. She was often sick in mind and had to be sent into hospital.</p> <p>What were Charlie Chaplin's talents?</p> <p>A. He could sing B. He could dance C. He could make people laugh D. All of the above</p>			

S No.33			
Item Code	Question Type	Ans Key	Marks
4154033	MCQ	C	1
<p>After reading the given TEXT answer the 4 questions based on the text by choosing the appropriate option.</p> <p style="text-align: center;">TEXT</p> <p>About the year 1900, a small, dark-haired boy named Charles Chaplin was often seen waiting outside the back entrances of London theatres. He looked thin and hungry but his blue eyes were determined. He was hoping to get work in show business. He could sing and dance. His parents were music-hall performers and he had been born into the life of the theatre. And, although his own boyhood was painfully hard, he knew how to make people laugh.</p> <p>His own father had died from drinking too much. And his mother was not really able to look after Charles and his older half-brother, Sid. She was often sick in mind and had to be sent into hospital.</p> <p>His father had died due to _____.</p> <p>A. accident B. illness C. drinking D. suicide</p>			

S No.34

Item Code	Question Type	Ans Key	Marks
4154034	MCQ	B	1

After reading the given TEXT answer the 4 questions based on the text by choosing the appropriate option.

TEXT

About the year 1900, a small, dark-haired boy named Charles Chaplin was often seen waiting outside the back entrances of London theatres. He looked thin and hungry but his blue eyes were determined. He was hoping to get work in show business. He could sing and dance. His parents were music-hall performers and he had been born into the life of the theatre. And, although his own boyhood was painfully hard, he knew how to make people laugh.

His own father had died from drinking too much. And his mother was not really able to look after Charles and his older half-brother, Sid. She was often sick in mind and had to be sent into hospital.

Which word in the text is a synonym of the word 'resolute'?

- A. sick in the mind
- B. determined
- C. painfully hard
- D. dark haired

S No.35

Item Code	Question Type	Ans Key	Marks
4154035	MCQ	D	1

After reading the given TEXT answer the 4 questions based on the text by choosing the appropriate option.

TEXT

Producing silk is a lengthy process and demands close attention. First, quality feed for silkworms needs to be cultivated. Then the worms need to be carefully hand-reared in controlled environmental conditions till the pupae spin the silk cocoons. Finally, the silk has to be extracted by human hand and then woven into fabric. South India is the leading silk-producing area of the country, and is also known for its famous silk-weaving enclaves like Kanchipuram, Dharmavaram and Arni. The traditional handloom silk always scores over the power loom ones in the richness of their textures and designs, in their individuality, character and classic beauty. Handloom weaving remains a symbol of the versatility and creativity of living craft. Today, Indian silks, especially the handloom product remains the most beautiful and cherished the world over.

It is estimated that almost 85 per cent of the price of silk in the market goes back to communities that are engaged in sericulture and silk industry as the entire families are involved in production rather than one bread winner. It plays a huge role in the upliftment of communities from poverty to prosperity. If the consumption of silk increases, the entire village tends to prosper. The final part of silk production is the weaving of the fabric which is considered more of an art than an act. These communities depend solely on weaving silk for their livelihood and the distinct regions have developed their own character of weaving silk to establish indelible identities for themselves.

Silk has been intermingled with the life and culture of the Indians. Though India is producing all the varieties of silk, i.e., dress materials, scarves/stoles, readymade garments, etc., but the silk sarees are unique. The saree is almost synonymous with the word, 'silk'. It has been the traditional costume of Indian woman since time immemorial. There are innumerable references in Indian literature about this draped garment and the style of wearing differs from time to time, region to region and people to people. The silk sarees of India are among the excellent living examples of the craftsmanship of the weavers of the country.

How does the silk production help in the upliftment of communities?

- A. almost 85% of the price of silk in the market goes back to communities
- B. the entire village tends to prosper
- C. All of the above
- D. the entire families are involved in production

S No.36			
Item Code	Question Type	Ans Key	Marks
4154036	MCQ	D	1

After reading the given TEXT answer the 4 questions based on the text by choosing the appropriate option.

TEXT

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What product remains most beautiful and remains cherished the world over?

- A. Garments
- B. Scarves
- C. Sarees
- D. Handloom

S No.37			
Item Code	Question Type	Ans Key	Marks
4154037	MCQ	B	1

After reading the given TEXT answer the 4 questions based on the text by choosing the appropriate option.

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What according to the passage is an 'art' and not an 'act'?

- A. silk extraction
- B. weaving the fabric
- C. draping the garment
- D. upliftment of communities.

S No.38			
Item Code	Question Type	Ans Key	Marks
4154038	MCQ	D	1

After reading the given TEXT answer the 4 questions based on the text by choosing the appropriate option.

TEXT

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What word in the passage means the same as 'use up'?

- A. materials
- B. indelible
- C. remains
- D. consumption

S No.39			
Item Code	Question Type	Ans Key	Marks
4154039	MCQ	B	1

After reading the given TEXT answer the 4 questions based on the text by choosing the appropriate option.

TEXT

Many of us believe that 'small' means 'insignificant'. We believe that small actions and choices do not have much impact on our lives. We think that it is only the big things, the big actions and the big decisions that really count. But when you look at the lives of all great people, you will see that they built their character through small decisions, small choices and small actions that they performed every day. They transformed their lives through step-by-step or day-by-day approach. They nurtured and nourished their good habits and chipped away their bad habits, one by one. It was their small day-to-day decisions that added up to make tremendous difference in the long run. Indeed, in matters of personal growth and character building, there is no such thing as an overnight success.

Growth always occurs through a sequential series of stages. There is an organic process to growth. When we look at children growing up, we can see this process at work: the child first learns to crawl, then to stand and walk and then finally to run. The same is true in the natural world. The soil must first be tilled and then the seed must be sown. Next, it must be nurtured with enough water and sunlight and only then will it grow into trees laden with ripe fruits.

Gandhi understood this organic process and used this universal law of nature to his benefit. Gandhi grew in small ways, in his day-to-day affairs. He did not wake up one day and find himself to be the 'Mahatma'. In fact, there was nothing much in his early life that showed signs of greatness. But from his mid-twenties onwards, he deliberately and consistently attempted to change himself, reform himself and grow in some small way every day. Day by day, hour by hour, he risked failure, experimented and learnt from mistakes. In small as well as large situations, he took up the responsibility rather than avoiding it.

People have always marvelled at the effortless way in which Gandhi could accomplish the most difficult tasks. He displayed a great deal of self-mastery and discipline which was amazing. These things did not come easily to him. Years of practice and disciplined training went into making his success possible. Very few saw his struggles, fears, doubts and anxieties, or his inner efforts to overcome them. They only saw the victory, but not the struggle.

This is a common factor in the lives of all great people: they exercise their freedoms and choices in small ways that make great impact on their lives and their environment. Each of their small decisions and actions, add up to have a profound impact in the long run. By understanding this principle, we can move forward, with confidence, in the direction of our dreams. Often when our 'ideal goal' looks too far from us, we become easily discouraged, disheartened and pessimistic. However, when we choose to grow in small ways, by taking small steps one at a time, our achievement becomes easy.

What is the main idea in the first paragraph?

- A. Big things, big actions and big decisions make a person great.**
- B. Small actions and decisions are important in one's life**
- C. Overnight success is possible for all of us**
- D. Personal changes are not important.**

S No.40			
Item Code	Question Type	Ans Key	Marks
4154040	MCQ	A	1

After reading the given TEXT answer the 4 questions based on the text by choosing the appropriate option.

TEXT

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What does the writer mean by saying 'chipped away at their bad habits'?

- A. Steadily gave up bad habits**
- B. Slowly produced bad habits**
- C. Gradually criticized bad habits**
- D. Did not like bad habits**

S No.41			
Item Code	Question Type	Ans Key	Marks
4154041	MCQ	A	1

After reading the given TEXT answer the 4 questions based on the text by choosing the appropriate option.

TEXT

Many of us believe that 'small' means 'insignificant'. We believe that small actions and choices do not have much impact on our lives. We think that it is only the big things, the big actions and the big decisions that really count. But when you look at the lives of all great people, you will see that they built their character through small decisions, small choices and small actions that they performed every day. They transformed their lives through step-by-step or day-by-day approach. They nurtured and nourished their good habits and chipped away their bad habits, one by one. It was their small day-to-day decisions that added up to make tremendous difference in the long run. Indeed, in matters of personal growth and character building, there is no such thing as an overnight success.

Growth always occurs through a sequential series of stages. There is an organic process to growth. When we look at children growing up, we can see this process at work: the child first learns to crawl, then to stand and walk and then finally to run. The same is true in the natural world. The soil must first be tilled and then the seed must be sown. Next, it must be nurtured with enough water and sunlight and only then will it grow into trees laden with ripe fruits.

Gandhi understood this organic process and used this universal law of nature to his benefit. Gandhi grew in small ways, in his day-to-day affairs. He did not wake up one day and find himself to be the 'Mahatma'. In fact, there was nothing much in his early life that showed signs of greatness. But from his mid-twenties onwards, he deliberately and consistently attempted to change himself, reform himself and grow in some small way every day. Day by day, hour by hour, he risked failure, experimented and learnt from mistakes. In small as well as large situations, he took up the responsibility rather than avoiding it.

People have always marvelled at the effortless way in which Gandhi could accomplish the most difficult tasks. He displayed a great deal of self-mastery and discipline which was amazing. These things did not come easily to him. Years of practice and disciplined training went into making his success possible. Very few saw his struggles, fears, doubts and anxieties, or his inner efforts to overcome them. They only saw the victory, but not the struggle.

This is a common factor in the lives of all great people: they exercise their freedoms and choices in small ways that make great impact on their lives and their environment. Each of their small decisions and actions, add up to have a profound impact in the long run. By understanding this principle, we can move forward, with confidence, in the direction of our dreams. Often when our 'ideal goal' looks too far from us, we become easily discouraged, disheartened and pessimistic. However, when we choose to grow in small ways, by taking small steps one at a time, our achievement becomes easy.

What is done by great people to transform their lives?

- A. They approach life on a day-to-day basis**
- B. They build character in small ways**
- C. They believe in performing everyday**
- D. All of these.**

S No.42			
Item Code	Question Type	Ans Key	Marks
4154042	MCQ	C	1

After reading the given TEXT answer the 4 questions based on the text by choosing the appropriate option.

TEXT

Many of us believe that 'small' means 'insignificant'. We believe that small actions and choices do not have much impact on our lives. We think that it is only the big things, the big actions and the big decisions that really count. But when you look at the lives of all great people, you will see that they built their character through small decisions, small choices and small actions that they performed every day. They transformed their lives through step-by-step or day-by-day approach. They nurtured and nourished their good habits and chipped away their bad habits, one by one. It was their small day-to-day decisions that added up to make tremendous difference in the long run. Indeed, in matters of personal growth and character building, there is no such thing as an overnight success.

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People have always marvelled at the effortless way in which Gandhi could accomplish the most difficult tasks. He displayed a great deal of self-mastery and discipline which was amazing. These things did not come easily to him. Years of practice and disciplined training went into making his success possible. Very few saw his struggles, fears, doubts and anxieties, or his inner efforts to overcome them. They only saw the victory, but not the struggle.

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How did Gandhiji become 'Mahatma'?

- A. By risking failure
- B. By learning from mistakes
- C. By taking up responsibilities
- D. All of the above

S No.43

Item Code	Question Type	Ans Key	Marks
4154043	MCQ	B	1

After reading the given TEXT answer the 4 questions based on the text by choosing the appropriate option.

TEXT

Time is running out and the parents are worried. With just 10 days left for the schools to reopen after homework. Since the children have enjoyed through their vacations it is their parents who are surfing the internet, painting the charts, writing essays and preparing science models. Some busy parents who are well off but cannot spare time are compelled to send their wards to the "holiday homework special" classes.

Sumedha, who holds classes for completing the children's homework, says that she charges anything between Rs.1000 and 5000per child depending on the class and volume of homework. Many schools give away prizes for the best homework or add the marks in internal assessment. This makes it almost imperative for parents to get the best quality.

Majority of the parents complain that the level of the homework is so high that their children are clueless about how to do it. Also, many of them fret that the quantum of holiday homework is so much that children fail to complete it within the stipulated holidays.

In spite of all the troubles all parents agree that holiday homework is essential for the children. Some of them opined that homework helps establish and strengthen bonds between them and their children as it brings them close to each other. Some others think that holiday homework keeps the children in touch with their studies when they are not

reopen after homework. Since the children have enjoyed through their vacations it is their parents who are surfing the internet, painting the charts, writing essays and preparing science models. Some busy parents who are well off but cannot spare time are compelled to send their wards to the "holiday homework special" classes.

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The two objections raised by parents regarding holiday homework are

-
- A. children playing through the holidays and amount of homework
 - B. high level of homework and amount of homework
 - C. too much time and high level of homework
 - D. lack of ideas among children and level of homework

S No.44			
Item Code	Question Type	Ans Key	Marks
4154044	MCQ	D	1

After reading the given TEXT answer the 4 questions based on the text by choosing the appropriate option.

TEXT

Time is running out and the parents are worried. With just 10 days left for the schools to reopen after homework. Since the children have enjoyed through their vacations it is their parents who are surfing the internet, painting the charts, writing essays and preparing science models. Some busy parents who are well off but cannot spare time are compelled to send their wards to the "holiday homework special" classes.

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Besides keeping the children in touch with their studies homework _____ between parents and children.

- A. sets up bonds
- B. builds bonds
- C. weakens bonds
- D. sets up and builds bonds

S No.45

Item Code	Question Type	Ans Key	Marks
4154045	MCQ	D	1

After reading the given TEXT answer the 4 questions based on the text by choosing the appropriate option.

TEXT

Time is running out and the parents are worried. With just 10 days left for the schools to reopen after homework. Since the children have enjoyed through their vacations it is their parents who are surfing the internet, painting the charts, writing essays and preparing science models. Some busy parents who are well off but cannot spare time are compelled to send their wards to the "holiday homework special" classes.

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In spite of all the troubles all parents agree that holiday homework is essential for the children. Some of them opined that homework helps establish and strengthen bonds between them and their children as it brings them close to each other. Some others think that holiday homework keeps the children in touch with their studies when they are not going to school.

The word/phrase _____ in the passage means the same as "expressed opinion".

- A. running out
- B. spare
- C. Imperative
- D. opined

S No.46

Item Code	Question Type	Ans Key	Marks
4154046	MCQ	A	1

After reading the given TEXT answer the 4 questions based on the text by choosing the appropriate option.

TEXT

Time is running out and the parents are worried. With just 10 days left for the schools to reopen after homework. Since the children have enjoyed through their vacations it is their parents who are surfing the internet, painting the charts, writing essays and preparing science models. Some busy parents who are well off but cannot spare time are compelled to send their wards to the "holiday homework special" classes.

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That _____ makes it necessary that quality homework is done.

- A. Schools assign difficult homework
- B. parents are doing the homework
- C. schools add marks of the homework to internal assessment
- D. parents are paying a heavy price for the homework.

S No.47

Item Code	Question Type	Ans Key	Marks
4154047	MCQ	B	1

The given TEXT is a poem by William Wordsworth titled Daffodils. After reading the poem answer the 4 questions given below.

POEM

I wandered lonely as a cloud
That floats on high o'er vales and hills,
When all at once I saw a crowd,
A host of golden daffodils;
Fluttering and dancing in the breeze.

Continuous as the stars that shine
And twinkle on the milky way,
Along the margin of a bay:
Tossing their heads in sprightly dance.

The waves beside them dances; but they
Out-did the sparkling waves in glee:
A poet could not but be gay,
In such a jocund company
I gazed- and gazed- but little thought
What wealth the show to me had brought:

For oft, when on my couch I lie
In vacant or in pensive mood,
They flash upon that inward eye
Which is the bliss of solitude;
And then my heart with pleasure fills,
And dances with the daffodils.

- A. daffodils
- B. clouds
- C. stars
- D. valleys

S No.48

Item Code	Question Type	Ans Key	Marks
4154048	MCQ	D	1

The given TEXT is a poem by William Wordsworth titled Daffodils. After reading the poem answer the 4 questions given below.

POEM

I wandered lonely as a cloud
That floats on high o'er vales and hills,
When all at once I saw a crowd,
A host of golden daffodils;
Fluttering and dancing in the breeze.

Continuous as the stars that shine
And twinkle on the milky way,
Along the margin of a bay:
Tossing their heads in sprightly dance.

The waves beside them dances; but they
Out-did the sparkling waves in glee:
A poet could not but be gay,
In such a jocund company
I gazed- and gazed- but little thought
What wealth the show to me had brought:

For oft, when on my couch I lie
In vacant or in pensive mood,
They flash upon that inward eye
Which is the bliss of solitude;
And then my heart with pleasure fills.

- A. Star cluster
- B. Spiral galaxy
- C. Galactic plane
- D. All of the above

S No.49			
Item Code	Question Type	Ans Key	Marks
4154049	MCQ	B	1

The given TEXT is a poem by William Wordsworth titled Daffodils. After reading the poem answer the 4 questions given below.

POEM

I wandered lonely as a cloud
That floats on high o'er vales and hills,
When all at once I saw a crowd,
A host of golden daffodils;
Fluttering and dancing in the breeze.

Continuous as the stars that shine
And twinkle on the milky way,
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I gazed- and gazed- but little thought
What wealth the show to me had brought:

For oft, when on my couch I lie
In vacant or in pensive mood,
They flash upon that inward eye
Which is the bliss of solitude;
And then my heart with pleasure fills,
And dances with the daffodils.

- A. blue
- B. cheerful
- C. melancholy
- D. forlorn

S No.50			
Item Code	Question Type	Ans Key	Marks
4154050	MCQ	D	1

The given TEXT is a poem by William Wordsworth titled Daffodils. After reading the poem answer the 4 questions given below.

POEM

I wandered lonely as a cloud
That floats on high o'er vales and hills,
When all at once I saw a crowd,
A host of golden daffodils;
Fluttering and dancing in the breeze.

Continuous as the stars that shine
And twinkle on the milky way,
Along the margin of a bay:
Tossing their heads in sprightly dance.

The waves beside them dances; but they
Out-did the sparkling waves in glee:
A poet could not but be gay,
In such a jocund company
I gazed- and gazed- but little thought
What wealth the show to me had brought:

For oft, when on my couch I lie
In vacant or in pensive mood,
They flash upon that inward eye
Which is the bliss of solitude;
And then my heart with pleasure fills,

Which word in the last stanza is an antonym of the word 'reflective'?

- A. bliss
- B. vacant
- C. solitude
- D. pensive

S No.51

Item Code	Question Type	Ans Key	Marks
4164051	MCQ	C	1

Match the building components with their **most** appropriate function as given below

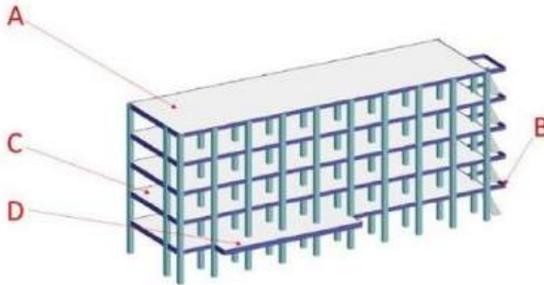
1	Walls	P	Protecting
2	Openings	Q	Connecting
3	Parapet	R	Enclosing
4.	Corridors	S	Ventilating

- A. 1- S; 2- R; 3- P; 4- Q
- B. 1- P; 2- R; 3- S; 4- Q
- C. 1- R; 2- S; 3- P; 4- Q
- D. 1- Q; 2- P; 3- S; 4- R

S No.52

Item Code	Question Type	Ans Key	Marks
4164052	MCQ	D	1

Identify the suitable options which point to cantilever portions of the building.



- A. B only
- B. D only
- C. A and C only
- D. B and D only

S No.53

Item Code	Question Type	Ans Key	Marks
4164053	MCQ	C	1

Identify the building component as indicated by the arrow.



- A. Plinth
- B. Skirting
- C. Dado
- D. Cornice

S No.54

Item Code	Question Type	Ans Key	Marks
4164054	MCQ	B	1

Identify this tool.



- A. Tile cutter
- B. Wood planer
- C. Spirit level
- D. Chisel

S No.55

Item Code	Question Type	Ans Key	Marks
4164055	MCQ	A	1

What is the name of the part of the arch as indicated by the arrow?



- A. Springer
- B. Intrados
- C. Haunch
- D. Keystone

S No.56

Item Code	Question Type	Ans Key	Marks
4174056	MCQ	A	2

On which river bank is the city of Ayodhya located?

- A. Saryu
- B. Ganges
- C. Yamuna
- D. Godavari

S No.57

Item Code	Question Type	Ans Key	Marks
4174057	MCQ	B	2

Who was the first Indian citizen to go into space?

- A. Sunita Williams
- B. Rakesh Sharma
- C. Raja Chari
- D. Ravish Malhotra

S No.58

Item Code	Question Type	Ans Key	Marks
4174058	MCQ	D	2

In which year did the Union government of India dissolve Jammu and Kashmir?

- A. 1947
- B. 1950
- C. 2002
- D. 2018

S No.59

Item Code	Question Type	Ans Key	Marks
4174059	MCQ	A	2

In **CAD CAM** what does the letter **M** stand for?

- A. Manufacturing
- B. Measurement
- C. Method
- D. Management

S No.60

Item Code	Question Type	Ans Key	Marks
4174060	MCQ	B	2

Who said "Only work which is product of inner compulsion can have spiritual meaning"?

- A. Goethe
- B. Walter Gropius
- C. Ayn Rand
- D. Rabindranath Tagore

S No.61

Item Code	Question Type	Ans Key	Marks
4174061	MCQ	A	2

Identify the movie from its poster given below.



- A. Slumdog Millionaire
- B. City of God
- C. La la Land
- D. All about Anna

S No.62

Item Code	Question Type	Ans Key	Marks
4174062	MCQ	D	2

Which Indian city hosted the first Kabaddi World cup?

- A. Chennai
- B. Bangalore
- C. Kolkata
- D. Mumbai

S No.63			
Item Code	Question Type	Ans Key	Marks
4184063	NAT	36	1

Solve the given puzzle:

$3 \text{ Chickens} = 60$
 $1 \text{ Chicken} + 2 \text{ Baskets of Eggs} = 26$
 $1 \text{ Basket of Eggs} + 2 \text{ Bananas} = 15$
 $1 \text{ Chicken} + 1 \text{ Basket of Eggs} \times 1 \text{ Banana} = ??$

S No.64			
Item Code	Question Type	Ans Key	Marks
4184064	NAT	3.6	1

Look at this series: What number should come next?
 5.2, 4.8, 4.4, 4, ?

S No.65			
Item Code	Question Type	Ans Key	Marks
4184065	NAT	1	1

Find the value of the QUESTION MARK.'?'

15 11
 [22 13]
 [? 5]
 23 32

S No.66			
Item Code	Question Type	Ans Key	Marks
4184066	MCQ	D	1

From the given answer options identify the figure which would fit into the sequence indicated by the question mark.

[X O □ C] [?] [◊ = C □]
 [□ △ △ O]

A: [□ ◊]
 [= C]
 B: [△ □]
 [= C]
 C: [= □]
 [O C]
 D: [△ □]
 [◊ C]

S No.67

Item Code	Question Type	Ans Key	Marks
4184067	MCQ	D	1

Study the given pattern carefully and select the number that can replace the question mark (?) in it.

4	7	6
15	?	21
44	68	60

- A. 19
- B. 20
- C. 18
- D. 24

S No.68

Item Code	Question Type	Ans Key	Marks
4194068	MSQ	B, D, F, G	2

Choose any **four most appropriate principles** which can be observed in the given photograph.



- A. Symmetry
- B. Golden ratio
- C. Static
- D. Focus
- E. Primary shapes
- F. Depth
- G. Movement
- H. Repetition

S No.69

Item Code	Question Type	Ans Key	Marks
4194069	MSQ	A, B, D, G Or A, B, G, H	2

The given image is that of the Cadet Chapel, Colorado, USA. Identify any **four most appropriate principles** which can be observed in the given photograph.



- A. Axis
- B. Repetition
- C. Proximity
- D. Balance
- E. Fluidity
- F. Organic
- G. Symmetry
- H. Balance

S No.70

Item Code	Question Type	Ans Key	Marks
4194070	MSQ	B, C, E, H	2

Choose any **four most appropriate principles/ elements of design** which can be observed in the given 3-Dimensional composition.

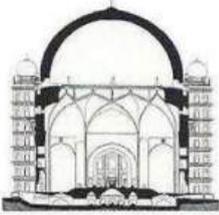


- A. Shape
- B. Imbalance
- C. Forms
- D. Repetition
- E. Contrast
- F. Rhythm
- G. Stable
- H. Volatile

S No.71

Item Code	Question Type	Ans Key	Marks
41104071	MCQ	D	2

Identify the building from the drawing shown below.



- A. Humayun's tomb, Delhi
- B. Taj Mahal, Agra
- C. Mecca Masjid, Hyderabad
- D. Gol Gumbaz, Bijapur

S No.72

Item Code	Question Type	Ans Key	Marks
41104072	MCQ	D	2

Image shows a common ornamented bracket element in temples. What is it usually called?



- A. Prakara
- B. Vimana
- C. Kailash
- D. Yaksha

S No.73

Item Code	Question Type	Ans Key	Marks
41104073	MCQ	A	2

Hampi is well known as

- A. Capital of Vijaynagar
- B. An Ancient Port city
- C. Capital city of the Pallavas
- D. Temple in Ellora

S No.74

Item Code	Question Type	Ans Key	Marks
41104074	MCQ	A	2

In which Indian city can you see this monument?



- A. Chandigarh
- B. Kolkata
- C. Panaji
- D. Naya Raipur

S No.75

Item Code	Question Type	Ans Key	Marks
41104075	MCQ	C	2

Identify the type of arch.



A. Rampant arch
 B. Segmented arch
 C. Sector arch
 D. Ribbed arch

S No.76

Item Code	Question Type	Ans Key	Marks
41114076	MCQ	B	2

What do these alphabets suggest?



A. Art Deco
 B. Architectural Digest
 C. Art and Design
 D. None of the above

S No.77

Item Code	Question Type	Ans Key	Marks
41114077	MCQ	D	2

The image created below is by repeating a logo of an organization. Identify the organization.



A. Central Bank
 B. IIT Guwahati
 C. Crompton Greaves
 D. SAIL

S No.78

Item Code	Question Type	Ans Key	Marks
41114078	MCQ	B	2



Identify the institution for which this logo stands for.

- A. National Institute of Design
- B. IIM, Kozhikode
- C. National Tuberculosis Institute
- D. National Institute of Ocean technology

S No.79

Item Code	Question Type	Ans Key	Marks
41114079	MCQ	A	2

Identify the illusion type from the options.



- A. Ebbinghaus illusion
- B. Lateral Illusion
- C. Tessellation
- D. Gestalt Illusion

S No.80

Item Code	Question Type	Ans Key	Marks
41114080	MCQ	B	2

The logos depicted below belong to one category. Identify



- A. Television channels
- B. Google products
- C. Video games
- D. Mega malls

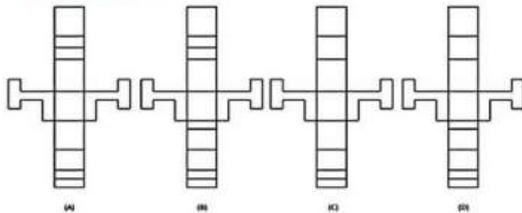
S No.81

Item Code	Question Type	Ans Key	Marks
41124081	MCQ	B	2

If the problem figure is unfolded, identify from the given answer options the correct unfolded form.



Problem figure

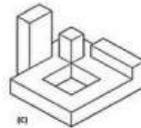
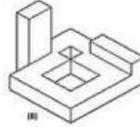
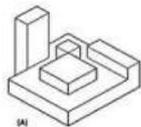
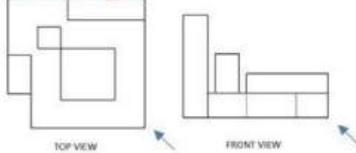


S No.82

Item Code	Question Type	Ans Key	Marks
41124082	MCQ	Bonus marks for all who have attempted	2

Identify the correct 3D figure from amongst the given answer options, which has the TOP VIEW, and FRONT VIEW, as given in the problem figure, viewed in the direction of the arrow.

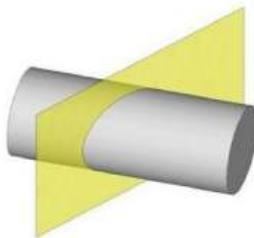
Problem figure



S No.83

Item Code	Question Type	Ans Key	Marks
41124083	MCQ	A	2

Identify the cutting plane (yellow) geometry for the given cylinder.

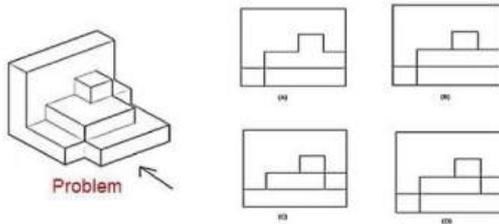


- A. Ellipse
- B. Parabola
- C. Eclipse
- D. Circle

S No.84

Item Code	Question Type	Ans Key	Marks
41124084	MCQ	D	2

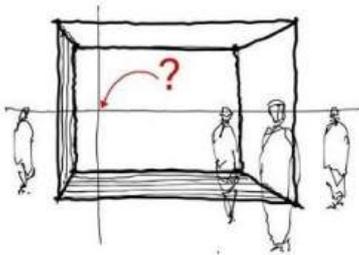
Identify the correct side view for the problem figure in the direction of the given arrow.



S No.85

Item Code	Question Type	Ans Key	Marks
41124085	MCQ	C	2

Identify the intersection of the lines (indicated by?) in the given perspective drawing.



- A. Human Eye Point
- B. Station point
- C. Vanishing point
- D. Focal point

S No.86

Item Code	Question Type	Ans Key	Marks
41134086	MCQ	A	2

What is a colour wheel?

- A. A visual tool that shows basic colour
- B. A visual tool that shows additive colour
- C. Visual display that displays subtractive colour
- D. A wheel that you can put colours on in any order

S No.87

Item Code	Question Type	Ans Key	Marks
41134087	MCQ	B	2

Which colours are predominantly used by food chains to draw customers?

- A. Green and brown
- B. Red and yellow
- C. Red and blue
- D. Purple and pink

S No.88

Item Code	Question Type	Ans Key	Marks
41134088	MCQ	C	2

Identify the colour scheme.



- A. Neutral
- B. Complementary
- C. Analogous
- D. Triadic

S No.89

Item Code	Question Type	Ans Key	Marks
41134089	MCQ	Bonus marks for all who have attempted	2

Identify the color harmony scheme primarily used by Henri Matisse in the painting 'Le Rifain Assis'.

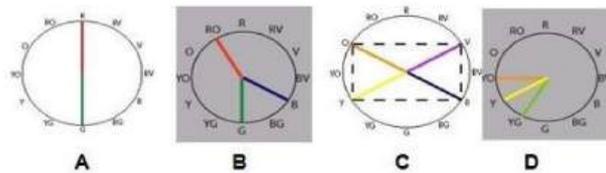


- A. Primary color harmony
- B. Secondary color harmony
- C. Tertiary color harmony
- D. Analogous color harmony

S No.90

Item Code	Question Type	Ans Key	Marks
41134090	MCQ	B	2

From the charts illustrated below identify the split complementary colour harmony scheme.



A

B

C

D

S No.91

Item Code	Question Type	Ans Key	Marks
41144091	MCQ	D	2

Which of the following is not a principle of design?

- A. Balance
- B. Contrast
- C. Emphasis
- D. Colour

S No.92

Item Code	Question Type	Ans Key	Marks
41144092	MSQ	A, C, E, F	2

Identify the **four** most appropriate elements/ principles of design in the graphic image given below.
(Marks will be awarded if only all answers are correct)



- A. Focus
- B. Pattern
- C. Contrast
- D. Texture
- E. Rhythm
- F. Movement
- G. Repetition
- H. Hierarchy

S No.93

Item Code	Question Type	Ans Key	Marks
41144093	MCQ	C	2

Match the images below with the most appropriate principles of design listed below as P, Q, R, S.



1.

2.



3



4

- P. Shape
- Q. Contrast
- R. Unity
- S. Emphasis

R. Unity
S. Emphasis

- A. 1- P; 2- Q; 3- S; 4- R
- B. 1- S; 2- P; 3- R; 4- Q
- C. 1- S; 2- Q; 3- R; 4- P
- D. 1- R; 2- S; 3- P; 4- Q

S No.94

Item Code	Question Type	Ans Key	Marks
41154094	MCQ	A	2

Identify the cartoonist who created the character given below.



- A. Charles M Schultz
- B. Dom Moraes
- C. Jack Kirby
- D. Kevin Smith

S No.95

Item Code	Question Type	Ans Key	Marks
41154095	MCQ	B	2

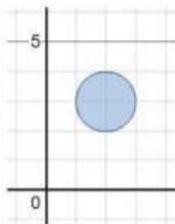
Islamic and Indian cultures, as well as the medieval Christian period share which of the following ideologies?

- A. a common disregard for artistic activities, including functional forms
- B. a belief the art and beauty are deeply affected by their relationship to religious or spiritual belief
- C. a common belief that art is the best means for showing respect for gods
- D. an interest in ceramic tile and other functional forms as the primary expression of their aesthetic

S No.96

Item Code	Question Type	Ans Key	Marks
41154096	MCQ	C	2

Rotate this circle around the x-axis where y is equal to 0. What 3D object do you get?



- A. Brick
- B. Sphere
- C. Donut
- D. Puck

S No.97

Item Code	Question Type	Ans Key	Marks
41164097	MCQ	C	2

Identify the monument from the black and white ink drawing given below.



- A. Qutb Minar, N Delhi
- B. Fateh Burj, Mohali
- C. Chittorgarh, Rajasthan
- D. Chand Minar, Daulatabad

S No.98

Item Code	Question Type	Ans Key	Marks
41164098	MCQ	A	2

Identify the option which does not have 90° angle using visual judgment.

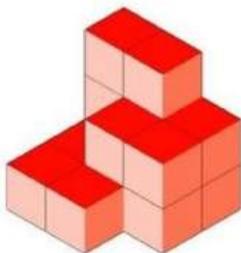


- A.
- B.
- C.
- D.

S No.99

Item Code	Question Type	Ans Key	Marks
41164099	NAT	12	2

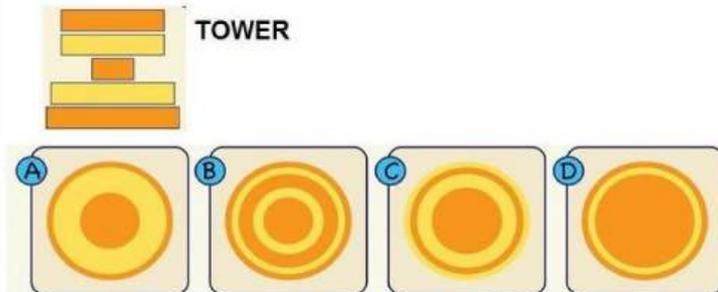
Identify the number of faces/ planes in the given 3-D image.



S No.100

Item Code	Question Type	Ans Key	Marks
41164100	MCQ	D	2

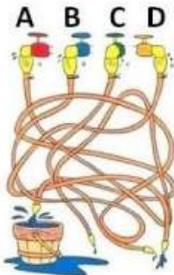
Identify from among the answer options given, the top view of the tower?



S No.101

Item Code	Question Type	Ans Key	Marks
41174101	MCQ	B	2

Which tap is filling the Bucket?



S No.102

Item Code	Question Type	Ans Key	Marks
41174102	MCQ	D	2

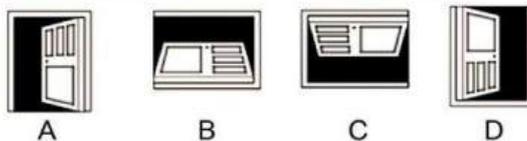
How many more dimensions does a 3D object have over a 2D shape?

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

S No.103

Item Code	Question Type	Ans Key	Marks
41174103	MCQ	C	2

Choose the ODD DOOR from the given options.



S No.104

Item Code	Question Type	Ans Key	Marks
41174104	MCQ	C	2

You are running in a race. You overtake the Third person. What position are you in?

- A. First
- B. Second
- C. Third
- D. Fourth

S No.105

Item Code	Question Type	Ans Key	Marks
41174105	MCQ	B	2

If a wheel has 64 spokes how many spaces are there between the spokes?

- A. 63
- B. 64
- C. 62
- D. 0

S No.106

Item Code	Question Type	Ans Key	Marks
41174106	MCQ	B	2

Turn me on my side and I am everything. Cut me in half and I am nothing. What am I?

- A. Any alphabet
- B. An even number
- C. A vowel
- D. An odd number

S No.107

Item Code	Question Type	Ans Key	Marks
41174107	MCQ	A	2

Picture yourself taking one of these pill candies and slicing it straight down. What do you get?



- A. Rectangle
- B. Ellipse
- C. Trapezoid
- D. Circle

S No.108

Item Code	Question Type	Ans Key	Marks
41174108	MCQ	C	2

To make a hockey puck which of 2-D shape needs to be rotated?

- A. Wave
- B. Circle
- C. Rectangle
- D. Ellipse

S No.109

Item Code	Question Type	Ans Key	Marks
41174109	MCQ	D	2

Which artist used one point perspective in his drawing 'The Adoration of the Magi'? over 500 years ago?

- A. Michelangelo
- B. Claude Monet
- C. Pascal Coste
- D. Leonardo da Vinci

S No.110

Item Code	Question Type	Ans Key	Marks
41174110	MCQ	B	2

A teacher should promote _____ and _____ among students.

- A. Entity view of ability, performance oriented goals.
- B. Incremental view of ability, mastery-oriented goals.
- C. Entity view of ability, failure avoidance goals.
- D. Incremental view of ability, failure accepting goals.

S No.111

Item Code	Question Type	Ans Key	Marks
41184111	MSQ	B, D, E, G	2

Identify any **four** building/ architectural elements in the image given below.
Marks will be awarded only if all answers are correct.

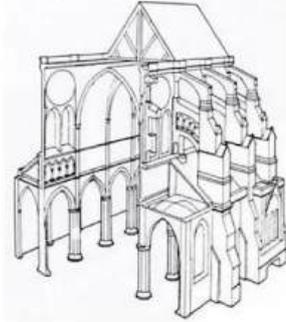


- A. Ceramic floor
- B. Pivoted shutters
- C. Coffered ceiling
- D. Handrails
- E. Indoor landscape
- F. Louvered shutters
- G. Laminated floor
- H. Clerestory

S No.112

Item Code	Question Type	Ans Key	Marks
41184112	MSQ	B, C, D, E, H (Full marks for any four of the above)	2

Identify any **four** building components/ architectural elements in the image given below of a cross section of a Gothic church.
(Marks will be awarded only if all answers are correct).



- A. Skylight
- B. Clerestory
- C. Buttress
- D. Colonnade
- E. Wooden roof
- F. Sunshades
- G. Semi- circular arches
- H. Masonry

S No.113

Item Code	Question Type	Ans Key	Marks
41184113	MSQ	A, B, D, G	2

What are the **advantages** of subterranean architecture (as in example given below) in extreme climates? Select any **four** most appropriate advantages from the given options.



- A. Conserving land
- B. Soundproofing
- C. Ease of construction
- D. Earthquake resistant
- E. Increased costs
- F. Prone to damp
- G. Insulating
- H. Mechanical ventilation

S No.114

Item Code	Question Type	Ans Key	Marks
41184114	MCQ	C	2

Identify the **ODD** one out from among the ceiling structures.



- A
- B
- C
- D

S No.115

Item Code	Question Type	Ans Key	Marks
41184115	MCQ	D	2

Identify the building element as indicated by the arrow from the given options.



- A. Tie slab
- B. Sill beam
- C. Foundation
- D. Plinth beam

S No.116

Item Code	Question Type	Ans Key	Marks
41194116	MCQ	B	3

Carefully observe the given image of a park.
You can view the image for 45 seconds after which it will disappear. You will then answer **two** questions based on the image.

Caution: The image once viewed cannot be viewed again.



Choose the correct image of the mother and child in the given image.



S No.117

Item Code	Question Type	Ans Key	Marks
41194117	NAT	7	3

Carefully observe the given image of a park.
You can view the image for 45 seconds after which it will disappear. You will then answer **two** questions based on the image.

Caution: The image once viewed cannot be viewed again.



How many children were seen in the image?

S No.118

Item Code	Question Type	Ans Key	Marks
41194118	NAT	2	3

Carefully observe the given image showing timepieces.
You can view the image for 45 seconds after which it will disappear. You will then answer **two** questions based on the image.

Caution: The image once viewed cannot be viewed again.



How many clocks were there in the image?

S No.119

Item Code	Question Type	Ans Key	Marks
41194119	MCQ	C	3

Carefully observe the given image showing timepieces.
You can view the image for 45 seconds after which it will disappear. You will then answer two questions based on the image.

Caution: The image once viewed cannot be viewed again.



Choose any one correct time that was observed in the timepieces.

- A. 10.20
- B. 10:52
- C. 11:55
- D. 01:11

S No.120

Item Code	Question Type	Ans Key	Marks
41194120	NAT	5	3

Carefully observe the given set of images of buildings
You can view the image for 45 seconds after which it will disappear. You will then answer two questions based on the image.

Caution: The image once viewed cannot be viewed again.



How many different buildings did you see in the given set of images?

S No.121

Item Code	Question Type	Ans Key	Marks
41194121	MCQ	A Or C (Either answer is correct and full marks to be given)	3

Carefully observe the given set of images of buildings
 You can view the image for 45 seconds after which it will disappear. You will then answer two questions based on the image.

Caution: The image once viewed cannot be viewed again.



Which among the following buildings was the least seen in the given set of images?



S No.122

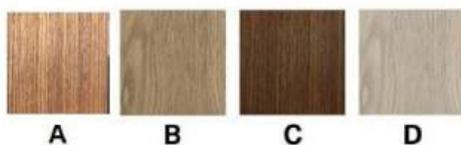
Item Code	Question Type	Ans Key	Marks
41194122	MCQ	A	3

Carefully observe the given image comprising of different materials.
 You can view the image for 45 seconds after which it will disappear. You will then answer two questions based on the image.

Caution: The image once viewed cannot be viewed again.



Choose the correct colour sample of the wood shown in the given image.



S No.125

Item Code	Question Type	Ans Key	Marks
41194125	MCQ	C	3

Carefully observe the given graphic of a metro train interior. You can view the image for 45 seconds after which it will disappear. You will then answer **two questions** based on the image.

Caution: The image once viewed cannot be viewed again.



What is the signage shown in the given picture?

- A. Seating for Elderly
- B. CCTV Surveillance
- C. Priority Seating
- D. Fire Exit