CUET UG Exam May - June 2023

Application No	233511779255
Candidate Name	Ayush kumar
Roll No	JH09274362
Test Date	30/05/2023
Test Time	3:30 PM - 6:30 PM

Section : **English**

Q.1 **Read the passage given below and answer the question by choosing the correct options :**

Ecotourism's principles clearly distinguish it from conventional mass tourism. Instead of classic tourist meccas, ecotourism seeks out remote locations with strict environmental protections and operates on a small scale. Tourists, businesses, and local residents are encouraged to minimize their impact on the environment by recycling materials, conserving energy and water, safely treating human waste and properly disposing of garbage, using alternative energy, and building in a manner that fits in with natural surroundings. The financial benefits from ecotourism are passed on to the community through conservation projects, employment, partnerships and local participation in the development and management of local resources. Synonymous with "green" tourism, ecotourism promotes cultural sensitivity and respect for traditions and customs in order to avoid the kind of exploitation that has turned tribal ceremonies into side shows and relics into souvenirs. Last but not least, ecotourism plays a political role in its support of human rights and democracy.

The popularity of ecotourism is a problem in itself. The original ecotourism numbers, deeply committed to conservation and actively engaged in cultural time, were willing to rough it out and go off the beaten path; but now the so-called en masse expect the comforts of home packaged in a pretty setting. A once honored treasure, it has become a commodity and a photo opportunity. Eco-tourists consume more resources and leave a larger impact on the environment. Operators require more land to accommodate this demand. As ecotourism spreads to every corner of the earth, it could end up defeating its original purposes.

According to the passage, Ecotourism : –

(A) helps in restoring tradition and relics
(B) does not encourage conservation of Environment
(C) does not promote local business
(D) is a kind of exploitation
(E) supports human rights and democracy

Choose the **correct** answer from the options given below :

(1) (A) Only
(2) (B) and (C) Only
(3) (C) Only
(4) (A) and (E) Only

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710486**
Option 1 ID : **21280741941**
Option 2 ID : **21280741942**
Option 3 ID : **21280741943**
Option 4 ID : **21280741944**
Status : **Answered**
Chosen Option : **4**

Q.2 **Read the passage given below and answer the question by choosing the correct options :**

Ecotourism's principles clearly distinguish it from conventional mass tourism. Instead of classic tourist meccas, ecotourism seeks out remote locations with strict environmental protections and operates on a small scale. Tourists, businesses, and local residents are encouraged to minimize their impact on the environment by recycling materials, conserving energy and water, safely treating human waste and properly disposing of garbage, using alternative energy, and building in a manner that fits in with natural surroundings. The financial benefits from ecotourism are passed on to the community through conservation projects, employment, partnerships and local participation in the development and management of local resources. Synonymous with "green" tourism, ecotourism promotes cultural sensitivity and respect for traditions and customs in order to avoid the kind of exploitation that has turned tribal ceremonies into side shows and relics into souvenirs. Last but not least, ecotourism plays a political role in its support of human rights and democracy.

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The political role played by ecotourism is to -

(1) conserve environment
(2) support human rights & democracy
(3) give financial benefits
(4) promote cultural sensitivity

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**
Question ID : **21280710487**
Option 1 ID : **21280741945**
Option 2 ID : **21280741946**
Option 3 ID : **21280741947**
Option 4 ID : **21280741948**
Status : **Answered**
Chosen Option : **2**

Q.3 **Read the passage given below and answer the question by choosing the correct options :**

Ecotourism's principles clearly distinguish it from conventional mass tourism. Instead of classic tourist meccas, ecotourism seeks out remote locations with strict environmental protections and operates on a small scale. Tourists, businesses, and local residents are encouraged to minimize their impact on the environment by recycling materials, conserving energy and water, safely treating human waste and properly disposing of garbage, using alternative energy, and building in a manner that fits in with natural surroundings. The financial benefits from ecotourism are passed on to the community through conservation projects, employment, partnerships and local participation in the development and management of local resources. Synonymous with "green" tourism, ecotourism promotes cultural sensitivity and respect for traditions and customs in order to avoid the kind of exploitation that has turned tribal ceremonies into side shows and relics into souvenirs. Last but not least, ecotourism plays a political role in its support of human rights and democracy.

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Match **List - I** with **List - II**.

	List - I		**List - II**
(A)	Original Eco-tourists	(I)	respect for traditions and customs
(B)	Green Tourism	(II)	passed on to community through conservation projects
(C)	Financial Benefits of Ecotourism	(III)	active cultural time
(D)	Eco operators	(IV)	more land to accommodate the demand of ecotourists

Choose the **correct** answer from the options given below :

(1) (A)-(II), (B)-(III), (C)-(I), (D)-(IV)
(2) (A)-(I), (B)-(II), (C)-(III), (D)-(IV)
(3) (A)-(III), (B)-(I), (C)-(II), (D)-(IV)
(4) (A)-(IV), (B)-(II), (C)-(III), (D)-(I)

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710488**
Option 1 ID : **21280741949**
Option 2 ID : **21280741950**
Option 3 ID : **21280741951**
Option 4 ID : **21280741952**
Status : **Answered**
Chosen Option : **3**

Q.4 **Read the passage given below and answer the question by choosing the correct options :**

Ecotourism's principles clearly distinguish it from conventional mass tourism. Instead of classic tourist meccas, ecotourism seeks out remote locations with strict environmental protections and operates on a small scale. Tourists, businesses, and local residents are encouraged to minimize their impact on the environment by recycling materials, conserving energy and water, safely treating human waste and properly disposing of garbage, using alternative energy, and building in a manner that fits in with natural surroundings. The financial benefits from ecotourism are passed on to the community through conservation projects, employment, partnerships and local participation in the development and management of local resources. Synonymous with "green" tourism, ecotourism promotes cultural sensitivity and respect for traditions and customs in order to avoid the kind of exploitation that has turned tribal ceremonies into side shows and relics into souvenirs. Last but not least, ecotourism plays a political role in its support of human rights and democracy.

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Ecotourism does not operate on :

(A) remote spaces
(B) a large scale
(C) environmental protection
(D) the idea of respect for traditions
(E) recycled material

Choose the **correct** answer from the options given below :

(1) (A) and (E) Only
(2) (B) Only
(3) (C) Only
(4) (A) and (B) Only

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710489**
Option 1 ID : **21280741953**
Option 2 ID : **21280741954**
Option 3 ID : **21280741955**
Option 4 ID : **21280741956**
Status : **Answered**
Chosen Option : **2**

Q.5 **Read the passage given below and answer the question by choosing the correct options :**

Ecotourism's principles clearly distinguish it from conventional mass tourism. Instead of classic tourist meccas, ecotourism seeks out remote locations with strict environmental protections and operates on a small scale. Tourists, businesses, and local residents are encouraged to minimize their impact on the environment by recycling materials, conserving energy and water, safely treating human waste and properly disposing of garbage, using alternative energy, and building in a manner that fits in with natural surroundings. The financial benefits from ecotourism are passed on to the community through conservation projects, employment, partnerships and local participation in the development and management of local resources. Synonymous with "green" tourism, ecotourism promotes cultural sensitivity and respect for traditions and customs in order to avoid the kind of exploitation that has turned tribal ceremonies into side shows and relics into souvenirs. Last but not least, ecotourism plays a political role in its support of human rights and democracy.

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ALL TOGETHER is the synonym of :

(1) conventional
(2) exploitation
(3) en masse
(4) accommodate

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**
Question ID : **21280710490**
Option 1 ID : **21280741957**
Option 2 ID : **21280741958**
Option 3 ID : **21280741959**
Option 4 ID : **21280741960**
Status : **Answered**
Chosen Option : **1**

Q.6 **Read the poem given below and answer the question by choosing the correct option :**

"I cannot go to school today,"
Said little Peggy Ann McKay.
"I have the measles and the mumps,
A gash, a rash and purple bumps.
My mouth is wet, my throat is dry,
I'm going blind in my right eye.
My tonsils are as big as rocks,
I've counted sixteen chicken pox
And there's one more-that's seventeen,
And don't you think my face looks green?
My leg is cut-my eyes are blue-
It might be instamatic flu.
I cough and sneeze and gasp and choke,
I'm sure that my left leg is broke-
My hip hurts when I move my chin,
My belly button's caving in,
My back is wrenched, my ankle's sprained,
My 'pendix pains each time it rains.
My nose is cold, my toes are numb.
I have a sliver in my thumb.
My neck is stiff, my voice is weak,
I hardly whisper when I speak.
My tongue is filling up my mouth,
I think my hair is falling out.
My elbow's bent, my spine ain't straight,
My temperature is one-eight.
My brain is shrunk, I cannot hear,
There is a hole inside my ear.
I have a hangnail, and my heart is-what?
What's that? What's that you say?
You say today is... Saturday?
G'bye, I'm going out to play!"

The long and never-ending list of sicknesses given by little Peggy in the poem shows that she is _____.

Choose the **correct** option from the following :

(1) desperate to miss school
(2) genuinely unwell
(3) an obstinate and headstrong child
(4) a neglected child

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710491**
Option 1 ID : **21280741961**
Option 2 ID : **21280741962**
Option 3 ID : **21280741963**
Option 4 ID : **21280741964**
Status : **Not Answered**
Chosen Option : **--**

Q.7 **Read the poem given below and answer the question by choosing the correct option :**

"I cannot go to school today,"
Said little Peggy Ann McKay.
"I have the measles and the mumps,
A gash, a rash and purple bumps.
My mouth is wet, my throat is dry,
I'm going blind in my right eye.
My tonsils are as big as rocks,
I've counted sixteen chicken pox
And there's one more-that's seventeen,
And don't you think my face looks green?
My leg is cut-my eyes are blue-
It might be instamatic flu.
I cough and sneeze and gasp and choke,
I'm sure that my left leg is broke-
My hip hurts when I move my chin,
My belly button's caving in,
My back is wrenched, my ankle's sprained,
My 'pendix pains each time it rains.
My nose is cold, my toes are numb.
I have a sliver in my thumb.
My neck is stiff, my voice is weak,
I hardly whisper when I speak.
My tongue is filling up my mouth,
I think my hair is falling out.
My elbow's bent, my spine ain't straight,
My temperature is one-eight.
My brain is shrunk, I cannot hear,
There is a hole inside my ear.
I have a hangnail, and my heart is-what?
What's that? What's that you say?
You say today is... Saturday?
G'bye, I'm going out to play!"

Match the body parts in **List - I** with the respective ailments in **List - II**.

	List - I (Body Parts)		**List - II (Ailments)**
(A)	Eye	(I)	shrunk
(B)	Elbow	(II)	stiff
(C)	Brain	(III)	bent
(D)	Neck	(IV)	blind

Choose the **correct** answer from the options given below :

(1) (A)-(I), (B)-(II), (C)-(III), (D)-(IV)
(2) (A)-(IV), (B)-(III), (C)-(II), (D)-(I)
(3) (A)-(I), (B)-(III), (C)-(II), (D)-(IV)
(4) (A)-(IV), (B)-(III), (C)-(I), (D)-(II)

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710492**
Option 1 ID : **21280741965**
Option 2 ID : **21280741966**
Option 3 ID : **21280741967**
Option 4 ID : **21280741968**
Status : **Answered**
Chosen Option : **1**

Q.8 **Read the poem given below and answer the question by choosing the correct option :**

"I cannot go to school today,"
Said little Peggy Ann McKay.
"I have the measles and the mumps,
A gash, a rash and purple bumps.
My mouth is wet, my throat is dry,
I'm going blind in my right eye.
My tonsils are as big as rocks,
I've counted sixteen chicken pox
And there's one more-that's seventeen,
And don't you think my face looks green?
My leg is cut-my eyes are blue-
It might be instamatic flu.
I cough and sneeze and gasp and choke,
I'm sure that my left leg is broke-
My hip hurts when I move my chin,
My belly button's caving in,
My back is wrenched, my ankle's sprained,
My 'pendix pains each time it rains.
My nose is cold, my toes are numb.
I have a sliver in my thumb.
My neck is stiff, my voice is weak,
I hardly whisper when I speak.
My tongue is filling up my mouth,
I think my hair is falling out.
My elbow's bent, my spine ain't straight,
My temperature is one-eight.
My brain is shrunk, I cannot hear,
There is a hole inside my ear.
I have a hangnail, and my heart is-what?
What's that? What's that you say?
You say today is... Saturday?
G'bye, I'm going out to play!"

The *literary device* used by the poet to highlight the number of ailments Peggy Ann Mckay seems to suffer from is :

(1) transferred epithet
(2) oxymoron
(3) hyperbole
(4) asyndeton

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710493**
Option 1 ID : **21280741969**
Option 2 ID : **21280741970**
Option 3 ID : **21280741971**
Option 4 ID : **21280741972**
Status : **Answered**
Chosen Option : **3**

Q.9 **Read the poem given below and answer the question by choosing the correct option :**

"I cannot go to school today,"
Said little Peggy Ann McKay.
"I have the measles and the mumps,
A gash, a rash and purple bumps.
My mouth is wet, my throat is dry,
I'm going blind in my right eye.
My tonsils are as big as rocks,
I've counted sixteen chicken pox
And there's one more-that's seventeen,
And don't you think my face looks green?
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It might be instamatic flu.
I cough and sneeze and gasp and choke,
I'm sure that my left leg is broke-
My hip hurts when I move my chin,
My belly button's caving in,
My back is wrenched, my ankle's sprained,
My 'pendix pains each time it rains.
My nose is cold, my toes are numb.
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My neck is stiff, my voice is weak,
I hardly whisper when I speak.
My tongue is filling up my mouth,
I think my hair is falling out.
My elbow's bent, my spine ain't straight,
My temperature is one-eight.
My brain is shrunk, I cannot hear,
There is a hole inside my ear.
I have a hangnail, and my heart is-what?
What's that? What's that you say?
You say today is... Saturday?
G'bye, I'm going out to play!"

According to the poem, What is the color of Peggy Ann McKay's face ?

(1) Blue
(2) Purple
(3) Silver
(4) Green

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710494**
Option 1 ID : **21280741973**
Option 2 ID : **21280741974**
Option 3 ID : **21280741975**
Option 4 ID : **21280741976**
Status : **Answered**
Chosen Option : **4**

Q.10 **Read the poem given below and answer the question by choosing the correct option :**

"I cannot go to school today,"
Said little Peggy Ann McKay.
"I have the measles and the mumps,
A gash, a rash and purple bumps.
My mouth is wet, my throat is dry,
I'm going blind in my right eye.
My tonsils are as big as rocks,
I've counted sixteen chicken pox
And there's one more-that's seventeen,
And don't you think my face looks green?
My leg is cut-my eyes are blue-
It might be instamatic flu.
I cough and sneeze and gasp and choke,
I'm sure that my left leg is broke-
My hip hurts when I move my chin,
My belly button's caving in,
My back is wrenched, my ankle's sprained,
My 'pendix pains each time it rains.
My nose is cold, my toes are numb.
I have a sliver in my thumb.
My neck is stiff, my voice is weak,
I hardly whisper when I speak.
My tongue is filling up my mouth,
I think my hair is falling out.
My elbow's bent, my spine ain't straight,
My temperature is one-eight.
My brain is shrunk, I cannot hear,
There is a hole inside my ear.
I have a hangnail, and my heart is-what?
What's that? What's that you say?
You say today is... Saturday?
G'bye, I'm going out to play!"

The predominant tone of the poem is _____.

(1) satirical
(2) humorous
(3) melancholic
(4) serious

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710495**
Option 1 ID : **21280741977**
Option 2 ID : **21280741978**
Option 3 ID : **21280741979**
Option 4 ID : **21280741980**
Status : **Not Answered**
Chosen Option : **--**

Q.11 **Read the following passage carefully and answer the question by choosing the correct option.**

The great Roman orator, Cicero, in his celebrated treatise on Friendship, remarks with truth that it increases happiness and diminishes misery by the doubling of our joy and the dividing of our grief. When we do well, it is delightful to have friends who are so proud of our success that they receive as much pleasure from it as we do ourselves. For the friendless man the attainment of wealth, power, and honour is of little value. Such possessions contribute to our happiness most by enabling us to do good to others but if all those whom we are able to benefit are strangers, we take far less pleasure in our beneficence than if it were exerted on behalf of friends whose happiness is as dear to us as our own. Further, when we do our duty in spite of temptation, the mental satisfaction obtained from the approval of our conscience is heightened by the praise of our friends; for their judgement is as it were a second conscience, encouraging us in good and deterring us from evil. Our amusements have little zest and soon pall upon us if we engage in them in solitude, or with uncongenial companions, for whom we can feel no affection. Thus in every case our joys are rendered more intense and more permanent by being shared with friends.

It is equally true that, as Cicero points out, friendship diminishes our misery by enabling us to share the burden of it with others. When fortune has inflicted a heavy unavoidable blow upon us, our grief is alleviated by friendly condolence, and by the thought that as long as friends are left to us, life is still worth living.

But many misfortunes which threaten us are not inevitable and in escaping such misfortunes, the advice and active assistance of our friends may be invaluable. The friendless man stands alone, exposed, without protection, to his enemies and to the blows of fortune; but whoever has loyal friends is thereby provided with a strong defence against the worst that fortune can do to him.

For whom is the attainment of wealth, power and honour of little value ?

Choose the **Correct** options :

(1) The powerful man
(2) The successful man
(3) The friendless man
(4) The unsuccessful man

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**
Question ID : **21280710496**
Option 1 ID : **21280741981**
Option 2 ID : **21280741982**
Option 3 ID : **21280741983**
Option 4 ID : **21280741984**
Status : **Answered**
Chosen Option : **3**

Q.12 **Read the following passage carefully and answer the question by choosing the correct option.**

The great Roman orator, Cicero, in his celebrated treatise on Friendship, remarks with truth that it increases happiness and diminishes misery by the doubling of our joy and the dividing of our grief. When we do well, it is delightful to have friends who are so proud of our success that they receive as much pleasure from it as we do ourselves. For the friendless man the attainment of wealth, power, and honour is of little value. Such possessions contribute to our happiness most by enabling us to do good to others but if all those whom we are able to benefit are strangers, we take far less pleasure in our beneficence than if it were exerted on behalf of friends whose happiness is as dear to us as our own. Further, when we do our duty in spite of temptation, the mental satisfaction obtained from the approval of our conscience is heightened by the praise of our friends; for their judgement is as it were a second conscience, encouraging us in good and deterring us from evil. Our amusements have little zest and soon pall upon us if we engage in them in solitude, or with uncongenial companions, for whom we can feel no affection. Thus in every case our joys are rendered more intense and more permanent by being shared with friends.

It is equally true that, as Cicero points out, friendship diminishes our misery by enabling us to share the burden of it with others. When fortune has inflicted a heavy unavoidable blow upon us, our grief is alleviated by friendly condolence, and by the thought that as long as friends are left to us, life is still worth living.

But many misfortunes which threaten us are not inevitable and in escaping such misfortunes, the advice and active assistance of our friends may be invaluable. The friendless man stands alone, exposed, without protection, to his enemies and to the blows of fortune; but whoever has loyal friends is thereby provided with a strong defence against the worst that fortune can do to him.

With reference to the passage above, which statement/statements are **incorrect** :

(A) Our joys lose their charm if they are shared with friends.

(B) Cicero celebrates 'friendship' by stating that it divides our grief.

(C) The judgement of our friends is like a second conscience that deters us from good work.

(D) Our joys become more permanent when shared with friends.

(E) For a friendless man, attainment of wealth is of utmost value.

Choose the **correct** answer from the options given below :

(1) (A), (B) and (C) Only

(2) (B), (C) and (E) Only

(3) (A), (C) and (E) Only

(4) (C), (D) and (E) Only

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**
Question ID : **21280710497**
Option 1 ID : **21280741985**
Option 2 ID : **21280741986**
Option 3 ID : **21280741987**
Option 4 ID : **21280741988**
Status : **Answered**
Chosen Option : **1**

Q.13 **Read the following passage carefully and answer the question by choosing the correct option.**

The great Roman orator, Cicero, in his celebrated treatise on Friendship, remarks with truth that it increases happiness and diminishes misery by the doubling of our joy and the dividing of our grief. When we do well, it is delightful to have friends who are so proud of our success that they receive as much pleasure from it as we do ourselves. For the friendless man the attainment of wealth, power, and honour is of little value. Such possessions contribute to our happiness most by enabling us to do good to others but if all those whom we are able to benefit are strangers, we take far less pleasure in our beneficence than if it were exerted on behalf of friends whose happiness is as dear to us as our own. Further, when we do our duty in spite of temptation, the mental satisfaction obtained from the approval of our conscience is heightened by the praise of our friends; for their judgement is as it were a second conscience, encouraging us in good and deterring us from evil. Our amusements have little zest and soon pall upon us if we engage in them in solitude, or with uncongenial companions, for whom we can feel no affection. Thus in every case our joys are rendered more intense and more permanent by being shared with friends.

It is equally true that, as Cicero points out, friendship diminishes our misery by enabling us to share the burden of it with others. When fortune has inflicted a heavy unavoidable blow upon us, our grief is alleviated by friendly condolence, and by the thought that as long as friends are left to us, life is still worth living.

But many misfortunes which threaten us are not inevitable and in escaping such misfortunes, the advice and active assistance of our friends may be invaluable. The friendless man stands alone, exposed, without protection, to his enemies and to the blows of fortune; but whoever has loyal friends is thereby provided with a strong defence against the worst that fortune can do to him.

With reference to the passage above, which sentence/statements are **correct** :

(A) Friendship increases our misery by enabling us to share the burden.

(B) Cicero thinks that friendship can double our joy.

(C) Our amusements will have little zest if we engage in them with congenial companions.

(D) To escape many misfortunes, the advice of our friends may be invaluable.

(E) A friendless man is always firm and self confident.

Choose the **correct** answer from the options given below :

(1) (B), (D) and (E) Only

(2) (A), (B) and (D) Only

(3) (B), (C) and (D) Only

(4) (B) and (D) Only

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**
Question ID : **21280710498**
Option 1 ID : **21280741989**
Option 2 ID : **21280741990**
Option 3 ID : **21280741991**
Option 4 ID : **21280741992**
Status : **Not Answered**
Chosen Option : **--**

Q.14 **Read the following passage carefully and answer the question by choosing the correct option.**

The great Roman orator, Cicero, in his celebrated treatise on Friendship, remarks with truth that it increases happiness and diminishes misery by the doubling of our joy and the dividing of our grief. When we do well, it is delightful to have friends who are so proud of our success that they receive as much pleasure from it as we do ourselves. For the friendless man the attainment of wealth, power, and honour is of little value. Such possessions contribute to our happiness most by enabling us to do good to others but if all those whom we are able to benefit are strangers, we take far less pleasure in our beneficence than if it were exerted on behalf of friends whose happiness is as dear to us as our own. Further, when we do our duty in spite of temptation, the mental satisfaction obtained from the approval of our conscience is heightened by the praise of our friends; for their judgement is as it were a second conscience, encouraging us in good and deterring us from evil. Our amusements have little zest and soon pall upon us if we engage in them in solitude, or with uncongenial companions, for whom we can feel no affection. Thus in every case our joys are rendered more intense and more permanent by being shared with friends.

It is equally true that, as Cicero points out, friendship diminishes our misery by enabling us to share the burden of it with others. When fortune has inflicted a heavy unavoidable blow upon us, our grief is alleviated by friendly condolence, and by the thought that as long as friends are left to us, life is still worth living.

But many misfortunes which threaten us are not inevitable and in escaping such misfortunes, the advice and active assistance of our friends may be invaluable. The friendless man stands alone, exposed, without protection, to his enemies and to the blows of fortune; but whoever has loyal friends is thereby provided with a strong defence against the worst that fortune can do to him.

Choose the option that conveys the **meaning** of the word 'DETER'.

(1) hinder
(2) confuse
(3) encourage
(4) discover

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710499**
Option 1 ID : **21280741993**
Option 2 ID : **21280741994**
Option 3 ID : **21280741995**
Option 4 ID : **21280741996**
Status : **Answered**
Chosen Option : **1**

Q.15 **Read the following passage carefully and answer the question by choosing the correct option.**

The great Roman orator, Cicero, in his celebrated treatise on Friendship, remarks with truth that it increases happiness and diminishes misery by the doubling of our joy and the dividing of our grief. When we do well, it is delightful to have friends who are so proud of our success that they receive as much pleasure from it as we do ourselves. For the friendless man the attainment of wealth, power, and honour is of little value. Such possessions contribute to our happiness most by enabling us to do good to others but if all those whom we are able to benefit are strangers, we take far less pleasure in our beneficence than if it were exerted on behalf of friends whose happiness is as dear to us as our own. Further, when we do our duty in spite of temptation, the mental satisfaction obtained from the approval of our conscience is heightened by the praise of our friends; for their judgement is as it were a second conscience, encouraging us in good and deterring us from evil. Our amusements have little zest and soon pall upon us if we engage in them in solitude, or with uncongenial companions, for whom we can feel no affection. Thus in every case our joys are rendered more intense and more permanent by being shared with friends.

It is equally true that, as Cicero points out, friendship diminishes our misery by enabling us to share the burden of it with others. When fortune has inflicted a heavy unavoidable blow upon us, our grief is alleviated by friendly condolence, and by the thought that as long as friends are left to us, life is still worth living.

But many misfortunes which threaten us are not inevitable and in escaping such misfortunes, the advice and active assistance of our friends may be invaluable. The friendless man stands alone, exposed, without protection, to his enemies and to the blows of fortune; but whoever has loyal friends is thereby provided with a strong defence against the worst that fortune can do to him.

Find out a word from the passage above which means 'INEVITABLE'.

(1) celebrated
(2) unavoidable
(3) possession
(4) solitude

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710500**
Option 1 ID : **21280741997**
Option 2 ID : **21280741998**
Option 3 ID : **21280741999**
Option 4 ID : **21280742000**
Status : **Answered**
Chosen Option : **2**

Q.16 Match the Phrasal Verbs in **List - I** with their correct meanings in **List - II**.

	List - I		**List - II**
(A)	Pull down	(I)	succeed
(B)	Get through	(II)	to demolish
(C)	Call on	(III)	to visit
(D)	Lay off	(IV)	to dismiss

Choose the **correct** answer from the options given below :

(1) (A)-(IV), (B)-(III), (C)-(I), (D)-(II)
(2) (A)-(II), (B)-(I), (C)-(III), (D)-(IV)
(3) (A)-(I), (B)-(III), (C)-(II), (D)-(IV)
(4) (A)-(I), (B)-(II), (C)-(IV), (D)-(III)

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710523**
Option 1 ID : **21280742089**
Option 2 ID : **21280742090**
Option 3 ID : **21280742091**
Option 4 ID : **21280742092**
Status : **Answered**
Chosen Option : **2**

Q.17 Choose the correct option to complete the given sentence with an Adverbial Clause.
He led the Caravan _____.
(1) wherever he wanted to go.
(2) when he wanted to go.
(3) why he wanted to go.
(4) because he wanted to go.

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710532**
Option 1 ID : **21280742125**
Option 2 ID : **21280742126**
Option 3 ID : **21280742127**
Option 4 ID : **21280742128**
Status : **Answered**
Chosen Option : **1**

Q.18 Identify the correct sentence/s from the following :
(A) I am the seniorest to you.
(B) I am more senior than you.
(C) I am the most senior to you.
(D) I am senior to you.
(E) I am as senior than you.
Choose the **correct** answer from the options given below :
(1) (A) and (E) Only
(2) (B) and (E) Only
(3) (E) Only
(4) (D) Only

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710522**
Option 1 ID : **21280742085**
Option 2 ID : **21280742086**
Option 3 ID : **21280742087**
Option 4 ID : **21280742088**
Status : **Not Answered**
Chosen Option : **--**

Q.19 Choose the correct option to change the given sentence from Active Voice to Passive Voice :
They cancelled all flights because of fog.
(1) All flights were cancelled because of fog.
(2) Flights were cancelled because of fog.
(3) All flights was cancelled because of fog.
(4) Because of fog flights got cancelled.

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710502**
Option 1 ID : **21280742005**
Option 2 ID : **21280742006**
Option 3 ID : **21280742007**
Option 4 ID : **21280742008**
Status : **Not Answered**
Chosen Option : **--**

Q.20 Choose the correct option to fill in the suitable words in the blanks given in the following sentence :
I could _____ the waves rising high in the _____.
(1) Sea - See
(2) See - Sea
(3) See - She
(4) Sea- CE

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710525**
Option 1 ID : **21280742097**
Option 2 ID : **21280742098**
Option 3 ID : **21280742099**
Option 4 ID : **21280742100**
Status : **Answered**
Chosen Option : **2**

Q.21 Which of the following comes after the sender's address in a formal letter ?
(1) Receiver's address
(2) Salutation
(3) Subject
(4) Date

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710519**
Option 1 ID : **21280742073**
Option 2 ID : **21280742074**
Option 3 ID : **21280742075**
Option 4 ID : **21280742076**
Status : **Answered**
Chosen Option : **2**

Q.22 Choose the correct option to arrange the following jumbled sentences in a grammatically correct order to form a meaningful paragraph.

(A) He also said that the government was in discussion

(B) important for South Asian Countries to work towards price stability.

(C) with South Asian Countries to have cross-border trade in rupee.

(D) Consistently high inflation may pose risks to economic growth, and it is therefore

Choose the **correct** answer from the options given below :

(1) (C), (D), (B), (A)

(2) (D), (B), (A), (C)

(3) (A), (B), (C), (D)

(4) (D), (B), (C), (A)

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**
Question ID : **21280710506**
Option 1 ID : **21280742021**
Option 2 ID : **21280742022**
Option 3 ID : **21280742023**
Option 4 ID : **21280742024**
Status : **Answered**
Chosen Option : **2**

Q.23 The idiom - "wash your hands of something" means :

(1) to sanitize one's hands

(2) to be really interested

(3) to have nothing to do with

(4) to win something

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**
Question ID : **21280710534**
Option 1 ID : **21280742133**
Option 2 ID : **21280742134**
Option 3 ID : **21280742135**
Option 4 ID : **21280742136**
Status : **Not Answered**
Chosen Option : **--**

Q.24 Identify the Adjective Clause in the following sentence :
They never fail who die for a noble cause.

(1) a noble cause
(2) who die for a noble cause
(3) they never
(4) die for

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710535**
Option 1 ID : **21280742137**
Option 2 ID : **21280742138**
Option 3 ID : **21280742139**
Option 4 ID : **21280742140**
Status : **Not Answered**
Chosen Option : **--**

Q.25 Fill in the blank with a suitable Modal from the options given below : –
How _____ you shout at your elder sister ?

(1) shall
(2) would
(3) could
(4) must

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710518**
Option 1 ID : **21280742069**
Option 2 ID : **21280742070**
Option 3 ID : **21280742071**
Option 4 ID : **21280742072**
Status : **Answered**
Chosen Option : **1**

Q.26 Complete the following sentence with a suitable alternative from the options given below :
The sky is cloudy, it _____ rain.

(1) must
(2) should
(3) can
(4) might

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710517**
Option 1 ID : **21280742065**
Option 2 ID : **21280742066**
Option 3 ID : **21280742067**
Option 4 ID : **21280742068**
Status : **Answered**
Chosen Option : **4**

Q.27 Match the words in **List - I** with their antonyms in **List - II**.

	List - I		List - II
(A)	Expand	(I)	Public
(B)	Private	(II)	Follow
(C)	Lead	(III)	Refuse
(D)	Accept	(IV)	Contract

Choose the **correct** answer from the options given below :

(1) (A)-(I), (B)-(II), (C)-(IV), (D)-(III)

(2) (A)-(II), (B)-(III), (C)-(I), (D)-(IV)

(3) (A)-(IV), (B)-(I), (C)-(II), (D)-(III)

(4) (A)-(III), (B)-(IV), (C)-(II), (D)-(I)

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710528**
Option 1 ID : **21280742109**
Option 2 ID : **21280742110**
Option 3 ID : **21280742111**
Option 4 ID : **21280742112**
Status : **Answered**
Chosen Option : **2**

Q.28 Choose the correct option to change the following sentence into Indirect Speech : –
"Please bring me a book", she said to me.

(1) She requests me to bring my book.

(2) She requested me to bring her a book.

(3) She requested me to bring my book.

(4) She said that bring her a book.

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710503**
Option 1 ID : **21280742009**
Option 2 ID : **21280742010**
Option 3 ID : **21280742011**
Option 4 ID : **21280742012**
Status : **Answered**
Chosen Option : **2**

Q.29 Choose the correct meaning of the foreign word - "PRIMA FACIE", out of the options given below :

(1) incorrect idea
(2) prime idea
(3) the truth
(4) what at first seems to be true

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710507**
Option 1 ID : **21280742025**
Option 2 ID : **21280742026**
Option 3 ID : **21280742027**
Option 4 ID : **21280742028**
Status : **Answered**
Chosen Option : **4**

Q.30 Identify the type of Adverb used in the following sentence.
He never talks ill of his relatives.

(1) Adverb of Time
(2) Relative Adverb
(3) Adverb of Reason
(4) Adverb of Manner

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710530**
Option 1 ID : **21280742117**
Option 2 ID : **21280742118**
Option 3 ID : **21280742119**
Option 4 ID : **21280742120**
Status : **Not Answered**
Chosen Option : **--**

Q.31 Identify the correct option to mark the part of the sentence that has an error.

(A) Energy use will having a negative
(B) impact on the environment if we
(C) don't change our consumer pattern
(D) No Error

Choose the **correct** answer from the options given below :

(1) (A) Only
(2) (B) Only
(3) (C) Only
(4) No Error

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710521**
Option 1 ID : **21280742081**
Option 2 ID : **21280742082**
Option 3 ID : **21280742083**
Option 4 ID : **21280742084**
Status : **Answered**
Chosen Option : **3**

Q.32 Match the Phrasal Verbs in **List - I** with their correct meanings in **List - II**.

	List - I		**List - II**
(A)	Set out	(I)	to start a series of events that are likely to continue
(B)	Set to	(II)	to establish
(C)	Set in	(III)	to begin doing something in a determined way
(D)	Set up	(IV)	to leave a place and begin a journey

Choose the **correct** answer from the options given below :

(1) (A)-(III), (B)-(I), (C)-(II), (D)-(IV)
(2) (A)-(II), (B)-(I), (C)-(III), (D)-(IV)
(3) (A)-(IV), (B)-(III), (C)-(I), (D)-(II)
(4) (A)-(I), (B)-(II), (C)-(IV), (D)-(III)

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710524**
Option 1 ID : **21280742093**
Option 2 ID : **21280742094**
Option 3 ID : **21280742095**
Option 4 ID : **21280742096**
Status : **Answered**
Chosen Option : **3**

Q.33 Identify the correct Active Voice form of the following sentence from the options given below :
He was surprised at the results.
(1) The results surprised them.
(2) The results surprised him.
(3) The results never surprised him.
(4) No surprise for him with the results.

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710501**
Option 1 ID : **21280742001**
Option 2 ID : **21280742002**
Option 3 ID : **21280742003**
Option 4 ID : **21280742004**
Status : **Answered**
Chosen Option : **2**

Q.34 Choose the correct alternative to change the following Assertive sentence into an Exclamatory sentence.
I wish I had met you ten years ago.
(1) To think that I had met you ten years ago !
(2) If only I had met you ten years ago !
(3) Alas had I met you ten years ago !
(4) Nothing better than to have met you ten years ago !

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710514**
Option 1 ID : **21280742053**
Option 2 ID : **21280742054**
Option 3 ID : **21280742055**
Option 4 ID : **21280742056**
Status : **Answered**
Chosen Option : **2**

Q.35 Complete the sentence by choosing the correct option out of those given below :
_____ being questioned, he wept.
(1) At
(2) For
(3) On
(4) In

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710515**
Option 1 ID : **21280742057**
Option 2 ID : **21280742058**
Option 3 ID : **21280742059**
Option 4 ID : **21280742060**
Status : **Answered**
Chosen Option : **3**

Q.36 Choose the correct option to change the following sentence into Direct Speech.
He commanded me to guard the door.
(1) He said, "Guard the door."
(2) He requested, "Guard the door."
(3) He said, "Guarded the door."
(4) He told, "Guard the door."

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710504**
Option 1 ID : **21280742013**
Option 2 ID : **21280742014**
Option 3 ID : **21280742015**
Option 4 ID : **21280742016**
Status : **Answered**
Chosen Option : **1**

Q.37 Choose the most suitable question tag for the following sentence :
Most of us will join the army, _____ ?
(1) Isn't it
(2) Won't we
(3) Aren't we
(4) am I

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710531**
Option 1 ID : **21280742121**
Option 2 ID : **21280742122**
Option 3 ID : **21280742123**
Option 4 ID : **21280742124**
Status : **Answered**
Chosen Option : **2**

Q.38 Choose the option that conveys the nearest meaning of the idiom - At sixes and sevens
(1) to give a poor show
(2) to be unable to decide
(3) in disorder and confusion
(4) observant and watchful

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710533**
Option 1 ID : **21280742129**
Option 2 ID : **21280742130**
Option 3 ID : **21280742131**
Option 4 ID : **21280742132**
Status : **Not Answered**
Chosen Option : **--**

Q.39 Match the blanks in **List - I** with the correct Prepositions in **List - II**.

List - I (Sentence)		**List - II (Preposition)**
(A)	Shivani reached her office _____ 10 a.m.	(I) on
(B)	Ramesh did not turn up _____ sunday for the game.	(II) for
(C)	Vegetables are good _____ health.	(III) of
(D)	The team will consist _____ 15 members.	(IV) at

Choose the **correct** answer from the options given below :

(1) (A)-(IV), (B)-(III), (C)-(I), (D)-(II)

(2) (A)-(IV), (B)-(I), (C)-(II), (D)-(III)

(3) (A)-(I), (B)-(II), (C)-(III), (D)-(IV)

(4) (A)-(I), (B)-(III), (C)-(IV), (D)-(II)

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**
Question ID : **21280710516**
Option 1 ID : **21280742061**
Option 2 ID : **21280742062**
Option 3 ID : **21280742063**
Option 4 ID : **21280742064**
Status : **Answered**
Chosen Option : **2**

Q.40 Rearrange the following jumbled phrases labelled as PQRS to make a meaningful sentence.

P - swimming skills, he observed

Q - an absorbed attention

R - the coming tide with

S - trusting the girl's

(1) SRQP

(2) SPRQ

(3) RQSP

(4) PQSR

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**
Question ID : **21280710505**
Option 1 ID : **21280742017**
Option 2 ID : **21280742018**
Option 3 ID : **21280742019**
Option 4 ID : **21280742020**
Status : **Answered**
Chosen Option : **2**

Q.41 Identify the option(s) with the correct synonym of the word "MELANCHOLY" :

(A) Distasteful
(B) Dejected
(C) Dissemble
(D) Depressed
(E) Dissent

Choose the **correct** answer from the options given below :

(1) (A) and (B) Only
(2) (A), (B) and (C) Only
(3) (B) and (E) Only
(4) (B) and (D) Only

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710510**
Option 1 ID : **21280742037**
Option 2 ID : **21280742038**
Option 3 ID : **21280742039**
Option 4 ID : **21280742040**
Status : **Not Answered**
Chosen Option : **--**

Q.42 Complete the following sentence by using the correct Article from the options given below :

Honest men speak _____ truth.

(1) an
(2) a
(3) the
(4) no article

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710512**
Option 1 ID : **21280742045**
Option 2 ID : **21280742046**
Option 3 ID : **21280742047**
Option 4 ID : **21280742048**
Status : **Answered**
Chosen Option : **3**

Q.43 Choose the correct meaning of the foreign word .....
"À LA CARTE", out of the options given below.

(1) in the cart
(2) priced separately
(3) enthusiasm
(4) dish

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710508**
Option 1 ID : **21280742029**
Option 2 ID : **21280742030**
Option 3 ID : **21280742031**
Option 4 ID : **21280742032**
Status : **Answered**
Chosen Option : **1**

Q.44 Choose the antonym of 'CHILDISH' out of the options given below :

(1) ill-natured
(2) sincere
(3) converge
(4) mature

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710527**
Option 1 ID : **21280742105**
Option 2 ID : **21280742106**
Option 3 ID : **21280742107**
Option 4 ID : **21280742108**
Status : **Answered**
Chosen Option : **4**

Q.45 Complete the following sentence by using the correct Determiner from the options given below :
I ran back _____ yards to where the figure had disappeared.

(1) a few
(2) few
(3) the some
(4) some

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710511**
Option 1 ID : **21280742041**
Option 2 ID : **21280742042**
Option 3 ID : **21280742043**
Option 4 ID : **21280742044**
Status : **Answered**
Chosen Option : **1**

Q.46 Choose the option that is closest in meaning to the underlined word in the sentence given below :
Yesterday, Ramya gave quite an **exciting** performance at the Kamani Auditorium.

(1) downtrodden
(2) expeditious
(3) comouflage
(4) scintillating

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710509**
Option 1 ID : **21280742033**
Option 2 ID : **21280742034**
Option 3 ID : **21280742035**
Option 4 ID : **21280742036**
Status : **Not Answered**
Chosen Option : **--**

Q.47 Choose the correct option that leads to the sentence given below : –
I wish I knew my neighbours.

(1) If I could know my neighbours.
(2) If I would be able to know my neighbours.
(3) If only I knew my neighbours.
(4) I wish to know my neighbours.

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710513**
Option 1 ID : **21280742049**
Option 2 ID : **21280742050**
Option 3 ID : **21280742051**
Option 4 ID : **21280742052**
Status : **Answered**
Chosen Option : **2**

Q.48 Rearrange the following phrases into a meaningful sentence.

(A) Created by San-Francisco based upon AI,
(B) a free computer program
(C) Chat Generative Pre-Trained Transformer is
(D) anything you ask, with a literary flair.
(E) that can write human-sounding answers to

Choose the **correct** answer from the options given below :

(1) (B), (E), (C), (D), (A)
(2) (C), (B), (A), (D), (E)
(3) (A), (C), (B), (E), (D)
(4) (D), (A), (C), (E), (B)

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710526**
Option 1 ID : **21280742101**
Option 2 ID : **21280742102**
Option 3 ID : **21280742103**
Option 4 ID : **21280742104**
Status : **Answered**
Chosen Option : **2**

Q.49 Fill in the blank with the correct word from the options given below :

I fondly remember the time _____ my friends and I went to Rishikesh.

(1) who
(2) where
(3) when
(4) that

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710529**
Option 1 ID : **21280742113**
Option 2 ID : **21280742114**
Option 3 ID : **21280742115**
Option 4 ID : **21280742116**
Status : **Answered**
Chosen Option : **3**

Q.50 Choose the correct format of the date in an official letter : –

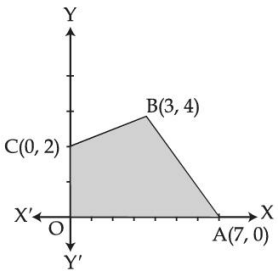
(1) January 2023
(2) January 15
(3) 15 January
(4) 15 January 2023

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710520**
Option 1 ID : **21280742077**
Option 2 ID : **21280742078**
Option 3 ID : **21280742079**
Option 4 ID : **21280742080**
Status : **Answered**
Chosen Option : **4**

Section : **Common**

Q.1 The feasible region for a LPP is shown in the given figure. The maximum value of $z = 2x + 5y$ is :



(1) 14
(2) 10
(3) 36
(4) 26

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710610**
Option 1 ID : **21280742437**
Option 2 ID : **21280742438**
Option 3 ID : **21280742439**
Option 4 ID : **21280742440**
Status : **Answered**
Chosen Option : **4**

Q.2 If the function $f(x)=x^4-62x^2+ax+9$ attains its local maximum value at $x=1$, then a is equal to :

(1) 120
(2) 110
(3) 100
(4) 90

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710602**
Option 1 ID : **21280742405**
Option 2 ID : **21280742406**
Option 3 ID : **21280742407**
Option 4 ID : **21280742408**
Status : **Answered**
Chosen Option : **3**

Q.3 The sum of the products of elements of any row with the cofactors of corresponding elements is equal to :

(1) the value of the determinant
(2) 0
(3) sum of cofactors
(4) adjoint of matrix

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710598**
Option 1 ID : **21280742389**
Option 2 ID : **21280742390**
Option 3 ID : **21280742391**
Option 4 ID : **21280742392**
Status : **Answered**
Chosen Option : **4**

Q.4 In a Linear Programming problem, the objective function is always :

(1) Linear
(2) Quadratic
(3) Cubic
(4) Biquadratic

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710609**
Option 1 ID : **21280742433**
Option 2 ID : **21280742434**
Option 3 ID : **21280742435**
Option 4 ID : **21280742436**
Status : **Answered**
Chosen Option : **1**

Q.5

Given $A = \begin{bmatrix} 2 & 3 \\ 1 & 4 \end{bmatrix}$ and $B = \begin{bmatrix} x & y \\ 1 & 4 \end{bmatrix}$, If $A = B$, then x and y are :

(1) $x = 2$
$y = 3$

(2) $x = 1$
$y = 2$

(3) $x = 3$
$y = 2$

(4) $x = -2$
$y = -3$

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710596**
Option 1 ID : **21280742381**
Option 2 ID : **21280742382**
Option 3 ID : **21280742383**
Option 4 ID : **21280742384**
Status : **Answered**
Chosen Option : **1**

Q.6 Match **List - I** with **List - II**. Match the integrating factors :

List - I (Differential Equation)	**List - II (Integrating factor)**
(A) $\frac{dy}{dx} + 3y = e^{-2x}$	(I) $\frac{1}{x}$
(B) $x\frac{dy}{dx} + y = 3x^2$	(II) e^{-x}
(C) $x\frac{dy}{dx} - y = 3x^2$	(III) x
(D) $\frac{dy}{dx} - y = x$	(IV) e^{3x}

Choose the **correct** answer from the options given below :

(1) (A)-(IV), (B)-(III), (C)-(I), (D)-(II)

(2) (A)-(III), (B)-(IV), (C)-(I), (D)-(II)

(3) (A)-(II), (B)-(III), (C)-(IV), (D)-(I)

(4) (A)-(I), (B)-(II), (C)-(III), (D)-(IV)

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710606**
Option 1 ID : **21280742421**
Option 2 ID : **21280742422**
Option 3 ID : **21280742423**
Option 4 ID : **21280742424**
Status : **Answered**
Chosen Option : **1**

Q.7 If order of matrix A is $m \times p$ and order of matrix B is $p \times n$, then what is the order of matrix AB ?

(1) $m \times p$

(2) $m \times n$

(3) $p \times n$

(4) $m \times 2$

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710597**
Option 1 ID : **21280742385**
Option 2 ID : **21280742386**
Option 3 ID : **21280742387**
Option 4 ID : **21280742388**
Status : **Answered**
Chosen Option : **2**

Q.8

$\int \left(x + \frac{1}{x}\right)^2 dx$ equals :

(1) $\frac{x^3}{3} + \frac{1}{x} - 2x + c$

(2) $\frac{x^3}{3} - \frac{1}{x} + 2x + c$

(3) $\frac{x^3}{3} - \frac{1}{x} - 2x + c$

(4) $\frac{x^3}{3} + \frac{1}{x} + 2x + c$

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710603**
Option 1 ID : **21280742409**
Option 2 ID : **21280742410**
Option 3 ID : **21280742411**
Option 4 ID : **21280742412**
Status : **Answered**
Chosen Option : **4**

Q.9 If the probability distribution of a random variable X is as given below :

X	-1	0	1	2	3
P(X)	K	$\frac{1}{5}$	2K	$\frac{3}{10}$	K

Then the value of K is :

(1) $\frac{3}{8}$

(2) $\frac{1}{4}$

(3) $\frac{5}{8}$

(4) $\frac{1}{8}$

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710608**
Option 1 ID : **21280742429**
Option 2 ID : **21280742430**
Option 3 ID : **21280742431**
Option 4 ID : **21280742432**
Status : **Answered**
Chosen Option : **3**

Q.10

If $x = a\left(t - \frac{1}{t}\right), y = b\left(t + \frac{1}{t}\right)$, then $\frac{dy}{dx} =$

(1) $\frac{x}{y}$

(2) $\frac{b^2x}{a^2y}$

(3) $\frac{bx}{ay}$

(4) $\frac{a^2y}{b^2x}$

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710600**
Option 1 ID : **21280742397**
Option 2 ID : **21280742398**
Option 3 ID : **21280742399**
Option 4 ID : **21280742400**
Status : **Answered**
Chosen Option : **2**

Q.11 The slope of the tangent to the curve $x = at^2$, $y = 2at$ at 't' is :

(1) $\frac{1}{t}$

(2) $\frac{1}{t^2}$

(3) $-\frac{1}{t}$

(4) $-\frac{1}{t^2}$

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710601**
Option 1 ID : **21280742401**
Option 2 ID : **21280742402**
Option 3 ID : **21280742403**
Option 4 ID : **21280742404**
Status : **Answered**
Chosen Option : **2**

Q.12

If $\begin{vmatrix} 3x & 4 \\ 7 & x \end{vmatrix} = \begin{vmatrix} 6 & 3 \\ 2 & 1 \end{vmatrix}$ then :

(1) $x^2 = \frac{26}{3}$

(2) $x^2 = \frac{25}{3}$

(3) $x^2 = \frac{23}{3}$

(4) $x^2 = \frac{28}{3}$

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710599**
Option 1 ID : **21280742393**
Option 2 ID : **21280742394**
Option 3 ID : **21280742395**
Option 4 ID : **21280742396**
Status : **Answered**
Chosen Option : **2**

Q.13 If m and n are respectively the order and degree of the differential equation :

$$\left(\frac{d^2y}{dx^2}\right)^5 + 6\frac{\left(\frac{d^2y}{dx^2}\right)^3}{\frac{d^3y}{dx^3}} + \frac{d^3y}{dx^3} = x^2 + 5, \text{ then :}$$

(1) $m=3,\ n=3$

(2) $m=2,\ n=3$

(3) $m=3,\ n=2$

(4) $m=3,\ n=5$

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710605**
Option 1 ID : **21280742417**
Option 2 ID : **21280742418**
Option 3 ID : **21280742419**
Option 4 ID : **21280742420**
Status : **Answered**
Chosen Option : **3**

Q.14 The area enclosed between $y^2=4x$, $x=1$, $x=4$ in first quadrant is :

(1) $\frac{28}{3}$ sq. unit

(2) $\frac{27}{2}$ sq. unit

(3) $\frac{25}{2}$ sq. unit

(4) $\frac{27}{5}$ sq. unit

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710604**
Option 1 ID : **21280742413**
Option 2 ID : **21280742414**
Option 3 ID : **21280742415**
Option 4 ID : **21280742416**
Status : **Answered**
Chosen Option : **2**

Q.15 The mean number of heads in two tosses of a coin is :

(1) 2

(2) $\frac{1}{2}$

(3) 1

(4) $\frac{3}{2}$

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710607**
Option 1 ID : **21280742425**
Option 2 ID : **21280742426**
Option 3 ID : **21280742427**
Option 4 ID : **21280742428**
Status : **Answered**
Chosen Option : **3**

Section : **Core Mathematics**

Q.1 If A and B are invertible matrices of order 3, $|A|=2$ and $\left|(AB)^{-1}\right| = -\frac{1}{6}$, then the value of $|B|$ is :

(1) 3
(2) -3
(3) 2
(4) $\frac{1}{6}$

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710618**
Option 1 ID : **21280742469**
Option 2 ID : **21280742470**
Option 3 ID : **21280742471**
Option 4 ID : **21280742472**
Status : **Answered**
Chosen Option : **1**

Q.2 The corner points of the feasible region determined by the following system of linear inequalities :
$2x+y \le 10$, $x+3y \le 15$, $x, y \ge 0$ are (0, 0), (5, 0), (3, 4) and (0, 5). Let $z = px+qy$, where p, q > 0 condition on p and q so that maximum of z occurs at both (3, 4) and (0, 5) is :

(1) $p=q$
(2) $p=2q$
(3) $p=3q$
(4) $q=3p$

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710637**
Option 1 ID : **21280742545**
Option 2 ID : **21280742546**
Option 3 ID : **21280742547**
Option 4 ID : **21280742548**
Status : **Not Answered**
Chosen Option : **--**

Q.3

If $f(x) = \begin{cases} \frac{k\cos x}{\pi - 2x}, & x \neq \frac{\pi}{2} \\ 3, & x = \frac{\pi}{2} \end{cases}$ is continuous at $x = \frac{\pi}{2}$, then k is :

(1) 6

(2) 4

(3) 3

(4) 2

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**
Question ID : **21280710621**
Option 1 ID : **21280742481**
Option 2 ID : **21280742482**
Option 3 ID : **21280742483**
Option 4 ID : **21280742484**
Status : **Answered**
Chosen Option : **3**

Q.4 Match **List - I** with **List - II**.

	List - I		**List - II**
(A)	If A and B are mutually exclusive events, then $P(A \cup B) =$	(I)	$\frac{P(A \cap B)}{P(B)}, P(B) \neq 0$
(B)	If A and B are independent events, then $P(A \cap B) =$	(II)	$\frac{P(A \cap B)}{P(A)}, P(A) \neq 0$
(C)	If A and B are two events of a sample space of an experiment, then $P(A/B)=$	(III)	$P(A) \cdot P(B)$
(D)	If A and B are two events of a sample space of an experiment, then $P(B/A)=$	(IV)	$P(A) + P(B)$

Choose the **correct** answer from the options given below :

(1) (A)-(IV), (B)-(III), (C)-(I), (D)-(II)

(2) (A)-(III), (B)-(IV), (C)-(I), (D)-(II)

(3) (A)-(II), (B)-(III), (C)-(IV), (D)-(I)

(4) (A)-(I), (B)-(II), (C)-(III), (D)-(IV)

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**
Question ID : **21280710639**
Option 1 ID : **21280742553**
Option 2 ID : **21280742554**
Option 3 ID : **21280742555**
Option 4 ID : **21280742556**
Status : **Not Answered**
Chosen Option : **--**

Q.5

Let $A=\begin{bmatrix}1 & -2 & 3\\ 1 & 2 & 1\\ \lambda & 2 & -3\end{bmatrix}$. If A^{-1} does not exist, then $\lambda=$

(1) -2

(2) 2

(3) 1

(4) -1

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**
Question ID : **21280710619**
Option 1 ID : **21280742473**
Option 2 ID : **21280742474**
Option 3 ID : **21280742475**
Option 4 ID : **21280742476**
Status : **Answered**
Chosen Option : **4**

Q.6

If $A=\begin{bmatrix}3 & 1\\ -1 & 2\end{bmatrix}$, then $A^2-5A+7I=$

(1) O

(2) I

(3) $2I$

(4) $3I$

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**
Question ID : **21280710617**
Option 1 ID : **21280742465**
Option 2 ID : **21280742466**
Option 3 ID : **21280742467**
Option 4 ID : **21280742468**
Status : **Answered**
Chosen Option : **3**

Q.7

If matrix $A = \begin{bmatrix} 3 & x \\ y & 0 \end{bmatrix}$ and $A' = A$, then :

(1) $x = y$

(2) $x = 0,\ y = 3$

(3) $x = 3,\ y = 0$

(4) $x + y = 3$

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710615**
Option 1 ID : **21280742457**
Option 2 ID : **21280742458**
Option 3 ID : **21280742459**
Option 4 ID : **21280742460**
Status : **Answered**
Chosen Option : **1**

Q.8 The variance of number of heads in three tosses of a coin is :

(1) $\frac{3}{2}$

(2) $\frac{3}{4}$

(3) 1

(4) 2

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710640**
Option 1 ID : **21280742557**
Option 2 ID : **21280742558**
Option 3 ID : **21280742559**
Option 4 ID : **21280742560**
Status : **Answered**
Chosen Option : **1**

Q.9 The maximum value of $(\sin x)(\cos x)$ is :

(1) 1

(2) $\frac{1}{2}$

(3) $\frac{1}{4}$

(4) $\sqrt{2}$

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710624**
Option 1 ID : **21280742493**
Option 2 ID : **21280742494**
Option 3 ID : **21280742495**
Option 4 ID : **21280742496**
Status : **Answered**
Chosen Option : **3**

Q.10 If a, b and c are all different from zero and $\begin{vmatrix} 1+a & 1 & 1 \\ 1 & 1+b & 1 \\ 1 & 1 & 1+c \end{vmatrix} = 0$, then the value of $\frac{1}{a} + \frac{1}{b} + \frac{1}{c}$ is :

(1) 0

(2) abc

(3) -1

(4) $\frac{1}{abc}$

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710620**
Option 1 ID : **21280742477**
Option 2 ID : **21280742478**
Option 3 ID : **21280742479**
Option 4 ID : **21280742480**
Status : **Not Answered**
Chosen Option : **--**

Q.11

If $A = \begin{bmatrix} 1 & -2 & 3 \\ -4 & 2 & 4 \end{bmatrix}$ and $B = \begin{bmatrix} 1 & -2 \\ 3 & -4 \\ 2 & 4 \end{bmatrix}$ then product AB is :

(1) Not possible

(2) $\begin{bmatrix} 1 & -6 & 6 \\ 8 & -8 & 16 \end{bmatrix}$

(3) $\begin{bmatrix} 9 \\ 19 \\ 15 \end{bmatrix}$

(4) $\begin{bmatrix} 1 & 18 \\ 10 & 16 \end{bmatrix}$

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710616**
Option 1 ID : **21280742461**
Option 2 ID : **21280742462**
Option 3 ID : **21280742463**
Option 4 ID : **21280742464**
Status : **Answered**
Chosen Option : **1**

Q.12

Relation R on Real Numbers is defined as $R = \{(a, b) : a \leq b\}$.

The relation is :

(1) Reflexive and Symmetric but not Transitive

(2) Symmetric and Transitive but not Reflexive

(3) Reflexive and Transitive but not Symmetric

(4) Equivalence relation

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710612**
Option 1 ID : **21280742445**
Option 2 ID : **21280742446**
Option 3 ID : **21280742447**
Option 4 ID : **21280742448**
Status : **Answered**
Chosen Option : **2**

Q.13 The angle between the two planes $x+y-z=3$ and $3x+2y+z=5$ is :

(1) $\cos^{-1}4$

(2) $\cos^{-1}\frac{2\sqrt{42}}{21}$

(3) $\cos^{-1}\frac{1}{4}$

(4) $\cos^{-1}\frac{1}{\sqrt{42}}$

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710635**
Option 1 ID : **21280742537**
Option 2 ID : **21280742538**
Option 3 ID : **21280742539**
Option 4 ID : **21280742540**
Status : **Not Answered**
Chosen Option : **--**

Q.14 If $\left|\vec{a}\right|=3$ and $\left|\vec{b}\right|=4$, then a value of λ for which $\vec{a}+\lambda\vec{b}$ and $\vec{a}-\lambda\vec{b}$ are perpendicular is :

(1) $\frac{9}{16}$

(2) $\frac{3}{4}$

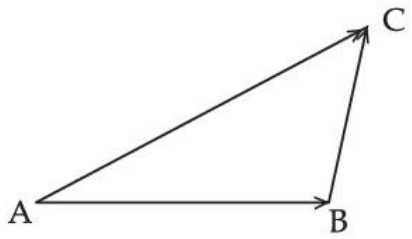
(3) $\frac{3}{2}$

(4) $\frac{4}{3}$

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710634**
Option 1 ID : **21280742533**
Option 2 ID : **21280742534**
Option 3 ID : **21280742535**
Option 4 ID : **21280742536**
Status : **Answered**
Chosen Option : **2**

Q.15 In ΔABC :



(A) $\vec{AB} + \vec{BC} + \vec{CA} = \vec{O}$

(B) $\vec{AB} + \vec{BC} - \vec{AC} = \vec{O}$

(C) $\vec{AB} + \vec{BC} - \vec{CA} = \vec{O}$

(D) $\vec{AB} - \vec{CB} + \vec{CA} = \vec{O}$

(E) $\vec{AB} - \vec{CB} - \vec{CA} = \vec{O}$

Choose the **correct** answer from the options given below :

(1) (A), (B), (D) only

(2) (A), (B), (E) only

(3) (B), (E) only

(4) (A), (D), (E) only

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**
Question ID : **21280710633**
Option 1 ID : **21280742529**
Option 2 ID : **21280742530**
Option 3 ID : **21280742531**
Option 4 ID : **21280742532**
Status : **Answered**
Chosen Option : **4**

Q.16 The two curves $x^3-3xy^2+15=0$ and $3x^2y-y^3+17=0$:

(1) cut at right angles

(2) touch each other

(3) cut at an angle $\frac{\pi}{4}$

(4) cut at an angle $\frac{\pi}{3}$

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710626**
Option 1 ID : **21280742501**
Option 2 ID : **21280742502**
Option 3 ID : **21280742503**
Option 4 ID : **21280742504**
Status : **Not Answered**
Chosen Option : **--**

Q.17 The interval in which the function $f(x)=2x^3-3x^2-36x+7$ is strictly decreasing is :

(1) $(-3, -2)$

(2) $(-2, 3)$

(3) $(2, 3)$

(4) $(2, -3)$

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710625**
Option 1 ID : **21280742497**
Option 2 ID : **21280742498**
Option 3 ID : **21280742499**
Option 4 ID : **21280742500**
Status : **Answered**
Chosen Option : **4**

Q.18 The area enclosed between the curve $y=x^2+2$ and x-axis between $x=0$ and $x=3$ is :

(1) 14 sq. units

(2) 15 sq. units

(3) 16 sq. units

(4) 18 sq. units

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**
Question ID : **21280710629**
Option 1 ID : **21280742513**
Option 2 ID : **21280742514**
Option 3 ID : **21280742515**
Option 4 ID : **21280742516**
Status : **Answered**
Chosen Option : **1**

Q.19 Which of the following statements are correct ?

(A) If $f: R \to R$ then $f(x)=|x|$ is continuous everywhere.

(B) If $f: R \to R$ then $f(x)=|x|$ is continuous everywhere but not differentiable at $x=0$.

(C) Let $f: R-\{0\} \to R$ then $f(x)=\frac{1}{x}$ is continuous everywhere.

(D) Let $f: R \to R$ then $f(x)=|x-1|+|x-2|$ is continuous everywhere but not differentiable at exactly 2 points.

(E) If $f: R \to R$ then $f(x)=\cot x$ is continuous everywhere.

Choose the **correct** answer from the options given below :

(1) (A) only

(2) (A), (C) only

(3) (A), (B), (C), (D) only

(4) (D), (E) only

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**
Question ID : **21280710622**
Option 1 ID : **21280742485**
Option 2 ID : **21280742486**
Option 3 ID : **21280742487**
Option 4 ID : **21280742488**
Status : **Not Answered**
Chosen Option : **--**

Q.20 Solution of differential equation $xdy - ydx = 0$ respresents :

(1) family of straight lines passing through origin

(2) family of parabolas whose vertex is at origin

(3) family of circles whose centre is at origin

(4) family of straight lines passing through (1, 1)

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710632**
Option 1 ID : **21280742525**
Option 2 ID : **21280742526**
Option 3 ID : **21280742527**
Option 4 ID : **21280742528**
Status : **Answered**
Chosen Option : **2**

Q.21 The vector equation of the line joining the points $(-2, -3, -4)$ and $(1, -2, 4)$ is :

(1) $\vec{r} = \left(-2\hat{i} - 3\hat{j} - 4\hat{k}\right) + \lambda\left(\hat{i} - 2\hat{j} + 4\hat{k}\right)$

(2) $\vec{r} = \left(2\hat{i} + 3\hat{j} + 4\hat{k}\right) + \lambda\left(3\hat{i} - \hat{j} + 8\hat{k}\right)$

(3) $\vec{r} = \left(-2\hat{i} - 3\hat{j} - 4\hat{k}\right) + \lambda\left(3\hat{i} + \hat{j} + 8\hat{k}\right)$

(4) $\vec{r} = \left(2\hat{i} + 3\hat{j} + 4\hat{k}\right) + \lambda\left(3\hat{i} + \hat{j} + 8\hat{k}\right)$

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710636**
Option 1 ID : **21280742541**
Option 2 ID : **21280742542**
Option 3 ID : **21280742543**
Option 4 ID : **21280742544**
Status : **Not Answered**
Chosen Option : **--**

Q.22 The degree of the differential equation

$$\left[1+\left(\frac{dy}{dx}\right)\right]^3=\left(\frac{d^2y}{dx^2}\right)^2 \text{ is :}$$

(1) 1

(2) 2

(3) 3

(4) 4

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710631**
Option 1 ID : **21280742521**
Option 2 ID : **21280742522**
Option 3 ID : **21280742523**
Option 4 ID : **21280742524**
Status : **Answered**
Chosen Option : **3**

Q.23 If $\sin^{-1}x+\sin^{-1}y=\frac{2\pi}{3}$, then the value of $\cos^{-1}x+\cos^{-1}y$ is :

(1) $\frac{\pi}{2}$

(2) $\frac{\pi}{3}$

(3) $\frac{2\pi}{3}$

(4) $\frac{\pi}{6}$

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710613**
Option 1 ID : **21280742449**
Option 2 ID : **21280742450**
Option 3 ID : **21280742451**
Option 4 ID : **21280742452**
Status : **Not Answered**
Chosen Option : **--**

Q.24

$$\int \frac{\sqrt{\tan x}}{\sin x \cos x} dx \text{ equals :}$$

(1) $2\sqrt{\tan x} + c$

(2) $2\sqrt{\cot x} + c$

(3) $\sqrt{\tan x} + c$

(4) $\frac{2}{\sqrt{\tan x}} + c$

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710628**
Option 1 ID : **21280742509**
Option 2 ID : **21280742510**
Option 3 ID : **21280742511**
Option 4 ID : **21280742512**
Status : **Answered**
Chosen Option : **1**

Q.25 Area of the region bounded by the curve $y = \cos x$ and x-axis between $x = 0$ and $x = \pi$ is :

(1) 2 sq. units

(2) 3 sq. units

(3) 4 sq. units

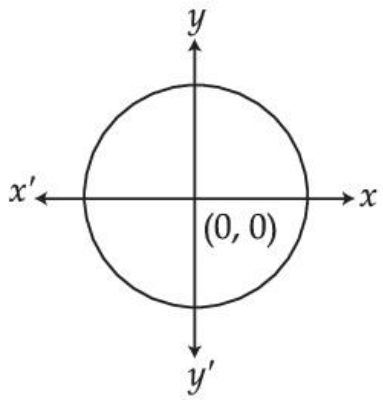
(4) 1 sq. unit

Options 1. 1
2. 2
3. 3
4. 4

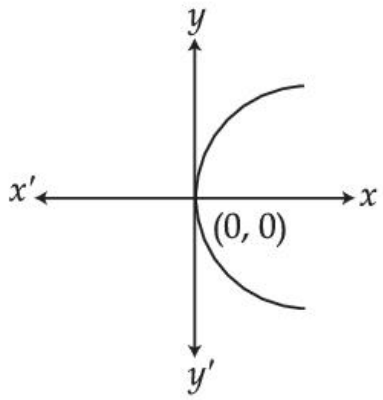
Question Type : **MCQ**
Question ID : **21280710630**
Option 1 ID : **21280742517**
Option 2 ID : **21280742518**
Option 3 ID : **21280742519**
Option 4 ID : **21280742520**
Status : **Answered**
Chosen Option : **3**

Q.26 Which of the following graphs represent a function ?

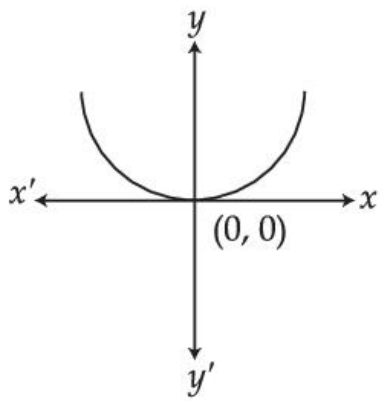
(1)



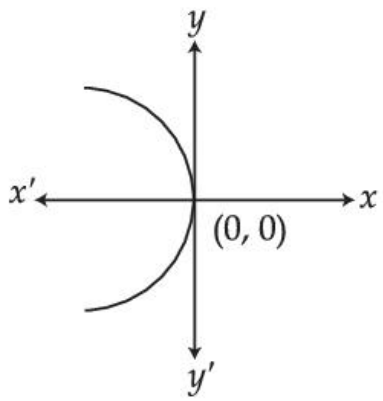
(2)



(3)



(4)



Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710611**
Option 1 ID : **21280742441**

Option 2 ID : **21280742442**
Option 3 ID : **21280742443**
Option 4 ID : **21280742444**
Status : **Answered**
Chosen Option : **3**

Q.27 The corner points of the feasible region determined by the system of linear constraints are (0, 0), (0, 40), (20, 40), (60, 20), (60, 0). The objective function is $z = 4x + 3y$.

Compare the quantity in **Column - A** and **Column - B**.

Column - A	**Column - B**
Maximum value of z	350

(1) The quantity in column A is greater
(2) The quantity in column B is greater
(3) The two quantities are equal
(4) The quantity in column B is greater than twice the quantity in column A

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710638**
Option 1 ID : **21280742549**
Option 2 ID : **21280742550**
Option 3 ID : **21280742551**
Option 4 ID : **21280742552**
Status : **Answered**
Chosen Option : **2**

Q.28 The derivative of $\sec(\tan\sqrt{x})$ with respect to x is :

(1) $\dfrac{\sec(\tan\sqrt{x})\tan(\tan\sqrt{x})\sec^2\sqrt{x}}{2\sqrt{x}}$

(2) $\sec^2(\tan\sqrt{x})$

(3) $\dfrac{\sec(\tan\sqrt{x})\tan(\tan\sqrt{x})\sec^2\sqrt{x}}{x}$

(4) $\sec^2(\tan x^{1/3})$

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710623**
Option 1 ID : **21280742489**
Option 2 ID : **21280742490**
Option 3 ID : **21280742491**
Option 4 ID : **21280742492**
Status : **Answered**
Chosen Option : **2**

Q.29 $\int e^x \sec x(1+\tan x)dx$ equals :

(1) $e^x \sec x + c$

(2) $e^x \tan x + c$

(3) $e^x \sin x + c$

(4) $e^x \cos x + c$

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710627**
Option 1 ID : **21280742505**
Option 2 ID : **21280742506**
Option 3 ID : **21280742507**
Option 4 ID : **21280742508**
Status : **Answered**
Chosen Option : **1**

Q.30 Let $a \le \tan^{-1}x + \cot^{-1}x + \sin^{-1}x \le b$. If α and β denote the minimum and maximum possible values of a and b respectively, then :

(1) $\alpha = 0,\ \beta = \pi$

(2) $\alpha = 0, \beta = \frac{\pi}{2}$

(3) $\alpha = \frac{\pi}{2}, \beta = \pi$

(4) $\alpha = -\frac{\pi}{2}, \beta = \frac{\pi}{2}$

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710614**
Option 1 ID : **21280742453**
Option 2 ID : **21280742454**
Option 3 ID : **21280742455**
Option 4 ID : **21280742456**
Status : **Not Answered**
Chosen Option : **--**

Q.31 If a set P contains 5 elements and the set Q contains 8 elements, then the number of one-one functions from A to B is :

(1) ${}^8C_5$

(2) ${}^8C_5 \times 5!$

(3) 5^8

(4) 8^5

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**
Question ID : **21280710641**
Option 1 ID : **21280742561**
Option 2 ID : **21280742562**
Option 3 ID : **21280742563**
Option 4 ID : **21280742564**
Status : **Not Answered**
Chosen Option : **--**

Q.32 The equation of tangent to the curve given by $x = a\sin^3 t$, $y = b\cos^3 t$ at a point where $t = \frac{\pi}{2}$ is :

(1) $x = 0$

(2) $y = 0$

(3) $y = \frac{\pi}{2}$

(4) $x = \frac{\pi}{2}$

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**
Question ID : **21280710642**
Option 1 ID : **21280742565**
Option 2 ID : **21280742566**
Option 3 ID : **21280742567**
Option 4 ID : **21280742568**
Status : **Answered**
Chosen Option : **3**

Q.33 The rate of change in area of a triangle having sides 10 cm and 12 cm when the variable angle between them is $\theta = 60°$, is :

(1) 30 cm^2/radian

(2) 120 cm^2/radian

(3) $30\sqrt{3}$ cm^2/radian

(4) $60\sqrt{3}$ cm^2/radian

Options 1. 1

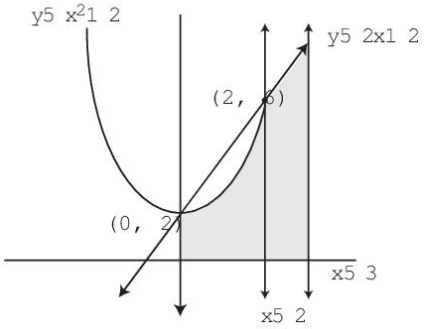
2. 2

3. 3

4. 4

Question Type : **MCQ**
Question ID : **21280710643**
Option 1 ID : **21280742569**
Option 2 ID : **21280742570**
Option 3 ID : **21280742571**
Option 4 ID : **21280742572**
Status : **Answered**
Chosen Option : **1**

Q.34 Which of the following regions will represent the shaded area in the given figure ?



(1) $\{(x, y) : 0 \le y \le x^2+2, 0 \le y \le 2x+2, 0 \le x \le 3\}$

(2) $\{(x, y) : 0 \le y \le x^2+2, y \ge 2x+2, x \le 3\}$

(3) $\{(x, y) : y \ge x^2+2, x \le 2, x \ge 0\}$

(4) $\{(x, y) : y \ge x^2+2, x \ge 0, x \ge 3\}$

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**
Question ID : **21280710644**
Option 1 ID : **21280742573**
Option 2 ID : **21280742574**
Option 3 ID : **21280742575**
Option 4 ID : **21280742576**
Status : **Answered**
Chosen Option : **3**

Q.35 If the equation of a floor of a room is given by $x+y-z+4=0$ and the equation of roof is given by $x+y-z+5=0$. Then, the height of the room is :

(1) $\frac{1}{6}$ units

(2) $\frac{1}{3}$ units

(3) $\frac{1}{\sqrt{3}}$ units

(4) $\frac{1}{\sqrt{6}}$ units

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**
Question ID : **21280710645**
Option 1 ID : **21280742577**
Option 2 ID : **21280742578**
Option 3 ID : **21280742579**
Option 4 ID : **21280742580**
Status : **Answered**
Chosen Option : **1**

Section : **Applied Mathematics**

Q.1 If $C(x) = ax^2 - bx - c$ represents the total cost function then the slope of the tangent to the marginal cost curve at the point (x, y) is :

(1) a

(2) 2a

(3) $2ax$

(4) $\frac{x}{a}$

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**
Question ID : **21280710656**
Option 1 ID : **21280742621**
Option 2 ID : **21280742622**
Option 3 ID : **21280742623**
Option 4 ID : **21280742624**
Status : **Not Answered**
Chosen Option : **--**

Q.2 Pipes A and B can fill a tank in 5 hours and 6 hours respectively. Another Pipe can empty the full tank in 30 hours. If all three pipes are opened together, then the tank will be filled in :

(1) 160 minutes

(2) 180 minutes

(3) 150 minutes

(4) 140 minutes

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**
Question ID : **21280710661**
Option 1 ID : **21280742641**
Option 2 ID : **21280742642**
Option 3 ID : **21280742643**
Option 4 ID : **21280742644**
Status : **Not Answered**
Chosen Option : **--**

Q.3 If the matrix $A = \begin{bmatrix} 0 & 2y & z \\ x & y & -z \\ x & -y & z \end{bmatrix}$ satisfies the equation $A^T A = I_3$, then $x^2 + y^2 + z^2$ is :

(1) 0

(2) 1

(3) 2

(4) 6

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**
Question ID : **21280710652**
Option 1 ID : **21280742605**
Option 2 ID : **21280742606**
Option 3 ID : **21280742607**
Option 4 ID : **21280742608**
Status : **Not Answered**
Chosen Option : **--**

Q.4 $5^{100} (\text{mod } 9) =$

(1) 4

(2) 2

(3) 1

(4) 0

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710649**
Option 1 ID : **21280742593**
Option 2 ID : **21280742594**
Option 3 ID : **21280742595**
Option 4 ID : **21280742596**
Status : **Not Answered**
Chosen Option : **--**

Q.5 The standard deviation of a sampling distribution of a statistic is also known as :

(1) sample size

(2) parameter

(3) standard error

(4) standard measure

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710659**
Option 1 ID : **21280742633**
Option 2 ID : **21280742634**
Option 3 ID : **21280742635**
Option 4 ID : **21280742636**
Status : **Not Answered**
Chosen Option : **--**

Q.6 The present value of a perpetuity of ₹ 6,240 payable at the beginning of each year, if money is worth 10% effective, is :

(1) ₹ 66,640
(2) ₹ 68,640
(3) ₹ 69,640
(4) ₹ 67,640

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710672**
Option 1 ID : **21280742685**
Option 2 ID : **21280742686**
Option 3 ID : **21280742687**
Option 4 ID : **21280742688**
Status : **Not Answered**
Chosen Option : **--**

Q.7 The objective function $z = 4x + 3y$ can be maximised subject to the constraints $3x + 4y \leq 24$, $8x + 6y \leq 48$, $x \leq 5$, $y \leq 6$, $x \geq 0$, $y \geq 0$:

(1) at one point only
(2) at two points only
(3) at an infinite number of points
(4) no point exists

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710674**
Option 1 ID : **21280742693**
Option 2 ID : **21280742694**
Option 3 ID : **21280742695**
Option 4 ID : **21280742696**
Status : **Not Answered**
Chosen Option : **--**

Q.8 Corner points of the feasible region for an LPP are : (0, 2), (3, 0), (6, 0), (6, 8) and (0, 5). Let $z = 4x + 6y$ be the objective function. Then, Max z − Min z is equal to :

(1) 70
(2) 72
(3) 60
(4) 62

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710675**
Option 1 ID : **21280742697**
Option 2 ID : **21280742698**
Option 3 ID : **21280742699**
Option 4 ID : **21280742700**
Status : **Not Answered**
Chosen Option : **--**

Q.9 The effective rate that is equivalent to a nominal rate of 12% compounded quarterly is :

(1) 10.55%

(2) 12.55%

(3) 12.25%

(4) 11.55%

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**
Question ID : **21280710669**
Option 1 ID : **21280742673**
Option 2 ID : **21280742674**
Option 3 ID : **21280742675**
Option 4 ID : **21280742676**
Status : **Not Answered**
Chosen Option : **--**

Q.10 The demand function of a monopolist is given by $p = 1500 - 2x - x^2$, then value of marginal revenue when $x = 20$ is :

(1) 220

(2) 200

(3) 240

(4) 280

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**
Question ID : **21280710655**
Option 1 ID : **21280742617**
Option 2 ID : **21280742618**
Option 3 ID : **21280742619**
Option 4 ID : **21280742620**
Status : **Not Answered**
Chosen Option : **--**

Q.11 Let A be a square matrix. Then,

(A) $A + A^T$ is a symmetric matrix

(B) $A - A^T$ is a skew-symmetric matrix

(C) AA^T is a skew-symmetric matrix

(D) A^TA is a symmetric matrix

Choose the **correct** answer from the options given below :

(1) (A), (B) Only

(2) (B), (C), (D) Only

(3) (A), (C), (D) Only

(4) (A), (B), (D) Only

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**
Question ID : **21280710653**
Option 1 ID : **21280742609**
Option 2 ID : **21280742610**
Option 3 ID : **21280742611**
Option 4 ID : **21280742612**
Status : **Not Answered**
Chosen Option : **--**

Q.12 A container contains 50 litres of milk. From this container 10 litres of milk was taken out and replaced by water. This process is repeated two more times. How much milk is now left in the container ?

(1) 25.6 litres

(2) 25 litres

(3) 26.5 litres

(4) 20.6 litres

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**
Question ID : **21280710646**
Option 1 ID : **21280742581**
Option 2 ID : **21280742582**
Option 3 ID : **21280742583**
Option 4 ID : **21280742584**
Status : **Not Answered**
Chosen Option : **--**

Q.13 Match **List - I** with **List - II**.

Given that $\Sigma p_0q_0 = 150$, $\Sigma p_0q_1 = 80$, $\Sigma p_1q_0 = 240$, $\Sigma p_1q_1 = 200$.

	List - I	**List - II**
(A)	Laspeyre's index	(I) 160
(B)	Paasche's index	(II) 200
(C)	Fesher's index	(III) 205
(D)	Dorbish and Bowley's	(IV) 250

Choose the **correct** answer from the options given below :

(1) (A)-(II), (B)-(I), (C)-(III), (D)-(IV)

(2) (A)-(III), (B)-(II), (C)-(IV), (D)-(I)

(3) (A)-(I), (B)-(IV), (C)-(II), (D)-(III)

(4) (A)-(IV), (B)-(III), (C)-(I), (D)-(II)

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710662**
Option 1 ID : **21280742645**
Option 2 ID : **21280742646**
Option 3 ID : **21280742647**
Option 4 ID : **21280742648**
Status : **Not Answered**
Chosen Option : **--**

Q.14 The probability distribution of a random variable X is given below :

X	0	1	2	3	4
P(X)	0.1	0.25	0.3	0.2	0.15

Then, $\text{Var}\left(\frac{X}{2}\right)$ is :

(1) 0.368751

(2) 0.361875

(3) 0.36758

(4) 0.369822

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710657**
Option 1 ID : **21280742625**
Option 2 ID : **21280742626**
Option 3 ID : **21280742627**
Option 4 ID : **21280742628**
Status : **Not Answered**
Chosen Option : **--**

Q.15 The present value of a perpetuity of ₹ 2,500 payable at the end of each year, if money is worth 10% compounded annually, is :

(1) ₹ 25,000
(2) ₹ 50,000
(3) ₹ 1,00,000
(4) ₹ 2,50,000

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710673**
Option 1 ID : **21280742689**
Option 2 ID : **21280742690**
Option 3 ID : **21280742691**
Option 4 ID : **21280742692**
Status : **Not Answered**
Chosen Option : **--**

Q.16 An asset costing ₹ 50,000 has a useful life of 4 years. The estimated scrap value is ₹ 10,000. By using linear depreciation method, the book value at the end of the second year is :

(1) ₹ 30,000
(2) ₹ 40,000
(3) ₹ 20,000
(4) ₹ 10,000

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710668**
Option 1 ID : **21280742669**
Option 2 ID : **21280742670**
Option 3 ID : **21280742671**
Option 4 ID : **21280742672**
Status : **Not Answered**
Chosen Option : **--**

Q.17 Which of the following statements are correct ?

(A) $\text{var}(aX+b) = a^2\text{var}(X)$

(B) $\text{var}(X) = E(X^2) - \{E(X)\}^2$

(C) $E(aX+b) = aE(X) + b$

(D) $E(X) = \sum_{i=1}^{n} p_i x_i^2$

Choose the **correct** answer from the options given below :

(1) (A), (C) Only

(2) (A), (B) Only

(3) (A), (B), (C) Only

(4) (A), (C), (D) Only

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**
Question ID : **21280710664**
Option 1 ID : **21280742653**
Option 2 ID : **21280742654**
Option 3 ID : **21280742655**
Option 4 ID : **21280742656**
Status : **Not Answered**
Chosen Option : **--**

Q.18 A company has issued a bond having a face value of ₹ 10,000 paying annual dividends at 8.5%. The bond will be redeemed at par at the end of 10 years, then the purchase price of this bond if the investor wishes a yield rate of 8% is : [Given $(1.08)^{-10} = 0.46319349$]

(1) ₹ 10,555.50

(2) ₹ 10,535.50

(3) ₹ 10,333.33

(4) ₹ 10,335.50

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**
Question ID : **21280710670**
Option 1 ID : **21280742677**
Option 2 ID : **21280742678**
Option 3 ID : **21280742679**
Option 4 ID : **21280742680**
Status : **Not Answered**
Chosen Option : **--**

Q.19 A company intends to create a sinking fund to replace at the end of 20^{th} year assets costing ₹ 2,50,000. Then the value of the amount to be retained out of profits every year if the interest rate is 5% is : (Given $(1.05)^{20} = 2.6532$)

(1) ₹ 7,156.09

(2) ₹ 7,599.09

(3) ₹ 7,561.09

(4) ₹ 7,651.09

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**
Question ID : **21280710671**
Option 1 ID : **21280742681**
Option 2 ID : **21280742682**
Option 3 ID : **21280742683**
Option 4 ID : **21280742684**
Status : **Not Answered**
Chosen Option : **--**

Q.20 If $-\frac{1}{3x-5} \leq 0$, then :

(1) $x > \frac{5}{3}$

(2) $x \geqslant \frac{5}{3}$

(3) $x < \frac{5}{3}$

(4) $x \leq \frac{5}{3}$

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**
Question ID : **21280710648**
Option 1 ID : **21280742589**
Option 2 ID : **21280742590**
Option 3 ID : **21280742591**
Option 4 ID : **21280742592**
Status : **Not Answered**
Chosen Option : **--**

Q.21 Mr. Ram took a loan of ₹ 4,00,000 at 10% annual interest rate and paid ₹ 20,000 as monthly instalment under flat rate system. What is the term of the loan ?

(1) 5 years
(2) 4 years
(3) 3 years
(4) 2 years

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710666**
Option 1 ID : **21280742661**
Option 2 ID : **21280742662**
Option 3 ID : **21280742663**
Option 4 ID : **21280742664**
Status : **Not Answered**
Chosen Option : **--**

Q.22 The EMI (in ₹) under the flat rate on a loan of ₹ 6,00,000 with 20% annual interest for 5 years is :

(1) ₹ 5,000
(2) ₹ 10,000
(3) ₹ 20,000
(4) ₹ 30,000

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710667**
Option 1 ID : **21280742665**
Option 2 ID : **21280742666**
Option 3 ID : **21280742667**
Option 4 ID : **21280742668**
Status : **Not Answered**
Chosen Option : **--**

Q.23

If $x^3+y^3=xy$, then $\frac{dy}{dx}$ is equal to :

(1) $\frac{y+3x^2}{3y^2+x}$

(2) $\frac{y-3x^2}{3y^2-x}$

(3) $\frac{y+3x^2}{3y^2-x}$

(4) $\frac{3y-x^2}{y^2-3x}$

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710654**
Option 1 ID : **21280742613**
Option 2 ID : **21280742614**
Option 3 ID : **21280742615**
Option 4 ID : **21280742616**
Status : **Not Answered**
Chosen Option : **--**

Q.24 Using simple average of relatives method, the price index for 2011, taking 2001 as base year, was found to be 127. If $\Sigma p_0=263$, then x and y from the following data are :

Commodities	A	B	C	D	E	F
Prices (in ₹) in 2001	80	70	x	20	18	25
Prices (in ₹) in 2011	100	87.50	61	22	y	32.50

(1) $x=50,\ y=27$
(2) $x=50,\ y=50$
(3) $x=27,\ y=50$
(4) $x=27,\ y=27$

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710665**
Option 1 ID : **21280742657**
Option 2 ID : **21280742658**
Option 3 ID : **21280742659**
Option 4 ID : **21280742660**
Status : **Not Answered**
Chosen Option : **--**

Q.25 The set of positive integers less than 50 forming the equivalence class of 6 modulo 9 is given by :

(1) $[6] = \{6, 15, 24, 33, 42, 50\}$

(2) $[6] = \{6, 15, 24, 33, 42\}$

(3) $[6] = \{6, 15, 24, 33\}$

(4) $[6] = \{6, 15, 24\}$

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**
Question ID : **21280710647**
Option 1 ID : **21280742585**
Option 2 ID : **21280742586**
Option 3 ID : **21280742587**
Option 4 ID : **21280742588**
Status : **Not Answered**
Chosen Option : **--**

Q.26 Rahul can run 34.4 m in the given time as Amit runs 50 m. By how much distance Rahul is away from Amit at the winning point, in a two km race ?

(1) 602 m

(2) 620 m

(3) 642 m

(4) 624 m

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**
Question ID : **21280710660**
Option 1 ID : **21280742637**
Option 2 ID : **21280742638**
Option 3 ID : **21280742639**
Option 4 ID : **21280742640**
Status : **Not Answered**
Chosen Option : **--**

Q.27 Let $f: R \to R$ be defined such that

$f(x) = 16x^2 - 16x + 12$

(A) Maximum value of $f(x)$ is 8

(B) Minimum value of $f(x)$ is 8

(C) Minimum value of $f(x)$ is 16

(D) No maximum value of $f(x)$

Choose the **correct** answer from the options given below :

(1) (A), (C) Only

(2) (B), (D) Only

(3) (A), (B), (C) Only

(4) (A), (B) Only

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**
Question ID : **21280710663**
Option 1 ID : **21280742649**
Option 2 ID : **21280742650**
Option 3 ID : **21280742651**
Option 4 ID : **21280742652**
Status : **Not Answered**
Chosen Option : **--**

Q.28 In binomial distribution with $n = 10$ and $P = \frac{1}{3}$, the probability of the event that unequal number of failures and successes occur is :

(1) $\frac{5665}{6561}$

(2) $\frac{6905}{6912}$

(3) $\frac{5556}{6561}$

(4) $\frac{5665}{6912}$

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**
Question ID : **21280710658**
Option 1 ID : **21280742629**
Option 2 ID : **21280742630**
Option 3 ID : **21280742631**
Option 4 ID : **21280742632**
Status : **Not Answered**
Chosen Option : **--**

Q.29 The minimum value of $ax+by$, where $xy=c^2$ and a, b, c are positive, is :

(1) $2b\sqrt{ac}$

(2) $2a\sqrt{bc}$

(3) $2c\sqrt{ab}$

(4) $2\sqrt{abc}$

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710651**
Option 1 ID : **21280742601**
Option 2 ID : **21280742602**
Option 3 ID : **21280742603**
Option 4 ID : **21280742604**
Status : **Not Answered**
Chosen Option : **--**

Q.30 Match **List - I** with **List - II**.

List - I (Functions)		**List - II (Maximum value)**
(A) $f(x)=-x^2,\ x\in(-\infty,\infty)$	(I)	8
(B) $f(x)=-x^2+1,\ x\in(-\infty,\infty)$	(II)	7
(C) $f(x)=x+1,\ x\in[0,6]$	(III)	1
(D) $f(x)=x^3,\ x\in[0,2]$	(IV)	0

Choose the **correct** answer from the options given below :

(1) (A)-(IV), (B)-(III), (C)-(II), (D)-(I)

(2) (A)-(III), (B)-(II), (C)-(I), (D)-(IV)

(3) (A)-(II), (B)-(I), (C)-(III), (D)-(IV)

(4) (A)-(I), (B)-(IV), (C)-(II), (D)-(III)

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710650**
Option 1 ID : **21280742597**
Option 2 ID : **21280742598**
Option 3 ID : **21280742599**
Option 4 ID : **21280742600**
Status : **Not Answered**
Chosen Option : **--**

Q.31 A motor boat goes 20 km downstream and comes back to the starting point in 6 hours. It the speed of the boat in still water is 12 km/h, then the speed of the stream is :

(1) 10 km/h
(2) 15 km/h
(3) 8 km/h
(4) 6 km/h

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710676**
Option 1 ID : **21280742701**
Option 2 ID : **21280742702**
Option 3 ID : **21280742703**
Option 4 ID : **21280742704**
Status : **Not Answered**
Chosen Option : **--**

Q.32

If $x = 6t^2$, $y = \frac{6}{t^2}$, then $\frac{d^2y}{dx^2}$ is equal to :

(1) $-12\ t^4$

(2) $\frac{1}{3\ t^6}$

(3) $\frac{1}{12\ t^5}$

(4) $-\frac{1}{t^4}$

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710677**
Option 1 ID : **21280742705**
Option 2 ID : **21280742706**
Option 3 ID : **21280742707**
Option 4 ID : **21280742708**
Status : **Not Answered**
Chosen Option : **--**

Q.33 If X has a Poisson distribution such that $P(X=1)=P(X=2)$ then $P(X=3)$ is :

(1) $\frac{4}{3}e^{-2}$

(2) $\frac{1}{3}e^{-3}$

(3) $\frac{2}{3}e^{-2}$

(4) $\frac{5}{3}e^{-4}$

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**
Question ID : **21280710678**
Option 1 ID : **21280742709**
Option 2 ID : **21280742710**
Option 3 ID : **21280742711**
Option 4 ID : **21280742712**
Status : **Not Answered**
Chosen Option : **--**

Q.34 Consider the following hypothesis test :

$\mu_o : \mu \leq 26$

$\mu_a : \mu > 26$

A sample of 36 is provided with a sample mean of 25.75. The population standard deviation is 3.
The value of the test statistic is :

(1) 1.5

(2) -0.5

(3) 0.75

(4) -0.25

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**
Question ID : **21280710679**
Option 1 ID : **21280742713**
Option 2 ID : **21280742714**
Option 3 ID : **21280742715**
Option 4 ID : **21280742716**
Status : **Not Answered**
Chosen Option : **--**

Q.35 The maximum value of $Z=3x+4y$ subjected to the constraints $3x+7y \leq 21$, $5x+2y \leq 10$; $x, y \geq 0$ is :

(1) $\frac{275}{29}$

(2) $\frac{237}{19}$

(3) $\frac{107}{29}$

(4) $\frac{384}{29}$

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**
Question ID : **21280710680**
Option 1 ID : **21280742717**
Option 2 ID : **21280742718**
Option 3 ID : **21280742719**
Option 4 ID : **21280742720**
Status : **Not Answered**
Chosen Option : **--**

Section : **General Test**

Q.1 Find the odd pair out ?

(1) 11 : 125

(2) 33 : 1093

(3) 35 : 1229

(4) 17 : 295

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**
Question ID : **21280710578**
Option 1 ID : **21280742309**
Option 2 ID : **21280742310**
Option 3 ID : **21280742311**
Option 4 ID : **21280742312**
Status : **Answered**
Chosen Option : **3**

Q.2 Who said "INC (Indian National Congress) should distinguish between begging and claiming the Rights".

(1) Aurobindo Ghosh
(2) Bal Gangadhar Tilak
(3) Bipin Chandra Pal
(4) Lala Lajpat Rai

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710568**
Option 1 ID : **21280742269**
Option 2 ID : **21280742270**
Option 3 ID : **21280742271**
Option 4 ID : **21280742272**
Status : **Not Answered**
Chosen Option : **--**

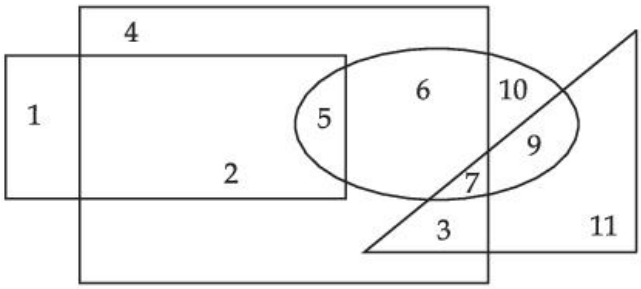
Q.3 Life span of 'RBC' is _____.

(1) 48 Hours
(2) 24 Hours
(3) 12 Hours
(4) 120 days

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710560**
Option 1 ID : **21280742237**
Option 2 ID : **21280742238**
Option 3 ID : **21280742239**
Option 4 ID : **21280742240**
Status : **Answered**
Chosen Option : **4**

Q.4 Which number is in the square, ellipse and triangle ?



(1) 7
(2) 6
(3) 5
(4) 1

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710581**
Option 1 ID : **21280742321**
Option 2 ID : **21280742322**
Option 3 ID : **21280742323**
Option 4 ID : **21280742324**
Status : **Answered**
Chosen Option : **1**

Q.5 The average weight of A, B and C is 60 kg. If the average weight of B and C is 50 kg and that of A and B is 52 kg, then what is the weight of B ?

(1) 26 kg
(2) 24 kg
(3) 30 kg
(4) 32 kg

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710545**
Option 1 ID : **21280742177**
Option 2 ID : **21280742178**
Option 3 ID : **21280742179**
Option 4 ID : **21280742180**
Status : **Not Answered**
Chosen Option : **--**

Q.6 Nine boys can complete a work in 360 days, 18 men can complete the same work in 72 days and 12 women can complete it in 162 days. In how many days, can 4 men, 12 women and 10 boys together, complete the work ?

(1) 79
(2) 81
(3) 83
(4) 85

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710550**
Option 1 ID : **21280742197**
Option 2 ID : **21280742198**
Option 3 ID : **21280742199**
Option 4 ID : **21280742200**
Status : **Not Answered**
Chosen Option : **--**

Q.7 Match **List - I** with **List - II**.

	List - I (States)		**List - II (Boarding Countries)**
(A)	Punjab, Rajasthan, Gujarat	(I)	Bhutan
(B)	Himachal Pradesh, Uttarakhand, Sikkim, Arunachal Pradesh	(II)	Pakistan
(C)	West Bengal, Mizoram, Meghalay, Tripura, Assam	(III)	China
(D)	West Bengal, Sikkim, Arunachal Pradesh, Assam	(IV)	Bangladesh

Choose the **most appropriate** answer from the options given below :

(1) (A)-(III), (B)-(IV), (C)-(I), (D)-(II)
(2) (A)-(II), (B)-(III), (C)-(I), (D)-(IV)
(3) (A)-(III), (B)-(II), (C)-(IV), (D)-(I)
(4) (A)-(II), (B)-(III), (C)-(IV), (D)-(I)

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710563**
Option 1 ID : **21280742249**
Option 2 ID : **21280742250**
Option 3 ID : **21280742251**
Option 4 ID : **21280742252**
Status : **Answered**
Chosen Option : **2**

Q.8 A dice is thrown twice. Find the probability of getting an odd number in the second throw and a multiple of 3 in the first throw.

(1) $\frac{1}{2}$

(2) $\frac{1}{3}$

(3) $\frac{1}{6}$

(4) $\frac{1}{9}$

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**
Question ID : **21280710544**
Option 1 ID : **21280742173**
Option 2 ID : **21280742174**
Option 3 ID : **21280742175**
Option 4 ID : **21280742176**
Status : **Answered**
Chosen Option : **1**

Q.9 The sum of the fourth proportional of 4, 5, 16 and the mean proportional of 4, 16, is

(1) 25

(2) 28

(3) 30

(4) 32

Options 1. 1

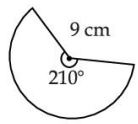
2. 2

3. 3

4. 4

Question Type : **MCQ**
Question ID : **21280710536**
Option 1 ID : **21280742141**
Option 2 ID : **21280742142**
Option 3 ID : **21280742143**
Option 4 ID : **21280742144**
Status : **Not Answered**
Chosen Option : **--**

Q.10 A sector as shown in the figure is assembled to form a cone. What is the base radius (in cm) of the cone so formed ? $\left(\pi=\frac{22}{7}\right)$



(1) 9
(2) 5.25
(3) 6.75
(4) 4.5

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710549**
Option 1 ID : **21280742193**
Option 2 ID : **21280742194**
Option 3 ID : **21280742195**
Option 4 ID : **21280742196**
Status : **Not Answered**
Chosen Option : **--**

Q.11 Match **List - I** with **List - II**.

List - I (Writer)		**List - II (Book)**
(A) Plato	(I)	Panchatantra
(B) Leo Tolstoy	(II)	War and Peace
(C) Pt. Vishnu Sharma	(III)	The Life Divine
(D) Sri Aurobindo Ghosh	(IV)	Republic

Choose the **most appropriate** answer from the options given below :

(1) (A)-(IV), (B)-(II), (C)-(I), (D)-(III)
(2) (A)-(II), (B)-(IV), (C)-(I), (D)-(III)
(3) (A)-(IV), (B)-(I), (C)-(II), (D)-(III)
(4) (A)-(II), (B)-(I), (C)-(III), (D)-(IV)

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710570**
Option 1 ID : **21280742277**
Option 2 ID : **21280742278**
Option 3 ID : **21280742279**
Option 4 ID : **21280742280**
Status : **Answered**
Chosen Option : **1**

Q.12 Keoladeo Bird Sanctuary is located in _____.

(1) Rajasthan
(2) Delhi
(3) Haryana
(4) Punjab

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710564**
Option 1 ID : **21280742253**
Option 2 ID : **21280742254**
Option 3 ID : **21280742255**
Option 4 ID : **21280742256**
Status : **Not Answered**
Chosen Option : **--**

Q.13 Find the missing term in given series ?

$4, 6, 9, 13\frac{1}{2}, \_\_\_\_\_?$

(1) $22\frac{3}{4}$
(2) $20\frac{1}{4}$
(3) 19
(4) $17\frac{1}{2}$

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710580**
Option 1 ID : **21280742317**
Option 2 ID : **21280742318**
Option 3 ID : **21280742319**
Option 4 ID : **21280742320**
Status : **Not Answered**
Chosen Option : **--**

Q.14 The ascending order of the numbers 0.8, 0.88, 0.808, 0.08 is

(1) 0.88, 0.808, 0.8, 0.08
(2) 0.808, 0.8, 0.08, 0.88
(3) 0.08, 0.8, 0.88, 0.808
(4) 0.08, 0.8, 0.808, 0.88

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710552**
Option 1 ID : **21280742205**
Option 2 ID : **21280742206**
Option 3 ID : **21280742207**
Option 4 ID : **21280742208**
Status : **Not Answered**
Chosen Option : **--**

Q.15 Match **List - I** with **List - II**.

List - I (Programme)		**List - II (Year of Beginning)**
(A) Vande Matram Scheme	(I)	2000
(B) Swajal Dhara Yojana	(II)	2005
(C) Bharat Nirman Yojana	(III)	2002
(D) Janshree Bima Yojana	(IV)	2004

Choose the **most appropriate** answer from the options given below :

(1) (A)-(II), (B)-(III), (C)-(IV), (D)-(I)
(2) (A)-(I), (B)-(II), (C)-(III), (D)-(IV)
(3) (A)-(I), (B)-(III), (C)-(IV), (D)-(II)
(4) (A)-(IV), (B)-(III), (C)-(II), (D)-(I)

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710569**
Option 1 ID : **21280742273**
Option 2 ID : **21280742274**
Option 3 ID : **21280742275**
Option 4 ID : **21280742276**
Status : **Not Answered**
Chosen Option : **--**

Q.16 _____ is called the father of Indian Archaeology.

(1) James Princip
(2) John Marshell
(3) Alexender Cunninghum
(4) Mortimer Wheeler

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710567**
Option 1 ID : **21280742265**
Option 2 ID : **21280742266**
Option 3 ID : **21280742267**
Option 4 ID : **21280742268**
Status : **Not Answered**
Chosen Option : **--**

Q.17 Which Union Territory of India is the smallest as per its area ?
(area wise smallest UT)

(1) Lakshadweep
(2) Puducherry
(3) Chandigarh
(4) Delhi

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710574**
Option 1 ID : **21280742293**
Option 2 ID : **21280742294**
Option 3 ID : **21280742295**
Option 4 ID : **21280742296**
Status : **Answered**
Chosen Option : **1**

Q.18 Study the following arrangement carefully and answer the question given below.
M D E K 7 B I 4 M J N E 7 6 Z U V W I 3 H 4 F
How many such numbers are there in the above sequence each of which is immediately preceded by a consonant and immediately followed by a vowels ?
(1) Zero
(2) One
(3) Two
(4) Three

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710592**
Option 1 ID : **21280742365**
Option 2 ID : **21280742366**
Option 3 ID : **21280742367**
Option 4 ID : **21280742368**
Status : **Answered**
Chosen Option : **3**

Q.19 The curved surface area of a right circular cylinder of height 14 cm is 88 cm^2. The diameter of the base of the cylinder is $\left(\text{Use } \pi = \frac{22}{7}\right)$:
(1) 2 cm
(2) 4 cm
(3) 5 cm
(4) 0.5 cm

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710548**
Option 1 ID : **21280742189**
Option 2 ID : **21280742190**
Option 3 ID : **21280742191**
Option 4 ID : **21280742192**
Status : **Not Answered**
Chosen Option : **--**

Q.20

The 10^{th} term of the A.P. 1, 5, 9, 13, . . ., is :

(1) 36
(2) 33
(3) 37
(4) 41

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710555**
Option 1 ID : **21280742217**
Option 2 ID : **21280742218**
Option 3 ID : **21280742219**
Option 4 ID : **21280742220**
Status : **Not Answered**
Chosen Option : **--**

Q.21

Atmospheric Pressure is measured by _____.

(1) Pedometer
(2) Thermometer
(3) Odometer
(4) Barometer

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710559**
Option 1 ID : **21280742233**
Option 2 ID : **21280742234**
Option 3 ID : **21280742235**
Option 4 ID : **21280742236**
Status : **Answered**
Chosen Option : **4**

Q.22 A wholeseller sells a jacket to a retailer at a profit of 5% and the retailer sells it to a customer at a profit of 10%. If the customer pays ₹ 4,158 for the jacket, then what was the cost price of the jacket for the wholesaler ?

(1) ₹ 3,500
(2) ₹ 3,400
(3) ₹ 3,300
(4) ₹ 3,600

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710539**
Option 1 ID : **21280742153**
Option 2 ID : **21280742154**
Option 3 ID : **21280742155**
Option 4 ID : **21280742156**
Status : **Not Answered**
Chosen Option : **--**

Q.23 Arrange the following group of letters arranged in the dictionary from first to last.

(A) AMDNOR
(B) RANDOM
(C) ADMNOR
(D) ANMDOR
(E) ANDMOR

Choose the **most appropriate** answer from the options given below :

(1) (C), (A), (E), (B), (D)
(2) (C), (A), (D), (E), (B)
(3) (C), (A), (E), (D), (B)
(4) (C), (B), (A), (E), (D)

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710595**
Option 1 ID : **21280742377**
Option 2 ID : **21280742378**
Option 3 ID : **21280742379**
Option 4 ID : **21280742380**
Status : **Answered**
Chosen Option : **3**

Q.24 Find the missing term in 1, 4, 10, 22, 46, _____ ?

(1) 100
(2) 98
(3) 96
(4) 94

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710591**
Option 1 ID : **21280742361**
Option 2 ID : **21280742362**
Option 3 ID : **21280742363**
Option 4 ID : **21280742364**
Status : **Answered**
Chosen Option : **4**

Q.25 Which country has launched the world's first commercial moon lander ?

(1) Japan
(2) Russia
(3) India
(4) U.S.A.

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710558**
Option 1 ID : **21280742229**
Option 2 ID : **21280742230**
Option 3 ID : **21280742231**
Option 4 ID : **21280742232**
Status : **Answered**
Chosen Option : **4**

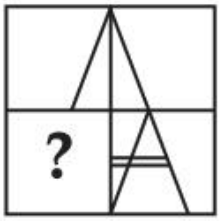
Q.26 A rectangular room can be partitioned into two equal square rooms by a 7 meter long partition. What is the floor area of the rectangular room in m^2 ?

(1) 49
(2) 98
(3) 147
(4) 196

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710541**
Option 1 ID : **21280742161**
Option 2 ID : **21280742162**
Option 3 ID : **21280742163**
Option 4 ID : **21280742164**
Status : **Not Answered**
Chosen Option : **--**

Q.27 Complete the figure matrix :



(1) 

(2) 

(3) 

(4) 

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710593**
Option 1 ID : **21280742369**
Option 2 ID : **21280742370**
Option 3 ID : **21280742371**
Option 4 ID : **21280742372**
Status : **Answered**
Chosen Option : **3**

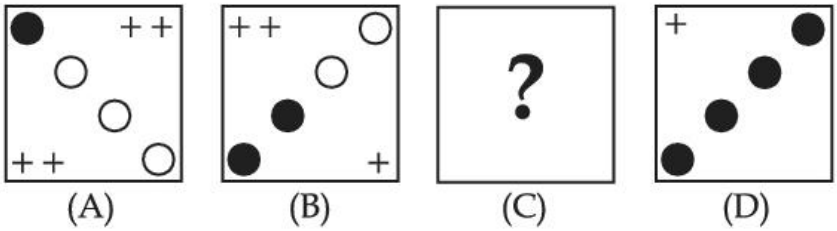
Q.28 In a family of 6 members, D is the only son of A, E is the grandfather of D. B is the daughter-in-law of C. F is the uncle of D. C is wife of A. What is the relationship of B with D ?

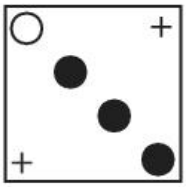
(1) Wife
(2) Sister
(3) Niece
(4) Aunt

Options 1. 1
2. 2
3. 3
4. 4

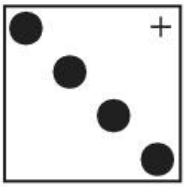
Question Type : **MCQ**
Question ID : **21280710588**
Option 1 ID : **21280742349**
Option 2 ID : **21280742350**
Option 3 ID : **21280742351**
Option 4 ID : **21280742352**
Status : **Answered**
Chosen Option : **3**

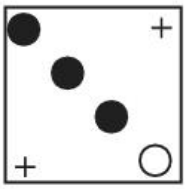
Q.29 Find the missing figure from the given options.



(1) 

(2) 

(3) 

(4) 

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710586**
Option 1 ID : **21280742341**
Option 2 ID : **21280742342**
Option 3 ID : **21280742343**
Option 4 ID : **21280742344**
Status : **Answered**
Chosen Option : **4**

Q.30 On compound interest, ₹ 2,000 amounts to ₹ 2,226.05 in 2 years. What is the rate of interest per annum ?

(1) 5%
(2) 5.5%
(3) 6%
(4) 6.5%

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710540**
Option 1 ID : **21280742157**
Option 2 ID : **21280742158**
Option 3 ID : **21280742159**
Option 4 ID : **21280742160**
Status : **Answered**
Chosen Option : **2**

Q.31 Given below are two statements : one is labelled as **Assertion (A)** and the other is labelled as **Reason (R)**.

Assertion (A) : Milk production in India is low as compared to many countries of the world.

Reason (R) : The animal rearers in India are poor

In the light of the above statements, choose the **most appropriate** answer from the options given below :

(1) Both **(A)** and **(R)** are correct and **(R)** is the correct explanation of **(A)**
(2) Both **(A)** and **(R)** are correct but **(R)** is **not** the correct explanation of **(A)**
(3) **(A)** is correct but **(R)** is not correct
(4) **(A)** is not correct but **(R)** is correct

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710594**
Option 1 ID : **21280742373**
Option 2 ID : **21280742374**
Option 3 ID : **21280742375**
Option 4 ID : **21280742376**
Status : **Answered**
Chosen Option : **4**

Q.32 Study the following arrangement carefully and answer the question given below:

R D A K 7 B I 3 M J E N 6 7 U Z V 1 W 3 H 4 F Y 8 P 6

How many such numbers are there in the above sequence each of which is immediately preceded by a consonant and immediately followed by a vowel ?

(1) Zero
(2) One
(3) Two
(4) Three

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710584**
Option 1 ID : **21280742333**
Option 2 ID : **21280742334**
Option 3 ID : **21280742335**
Option 4 ID : **21280742336**
Status : **Answered**
Chosen Option : **2**

Q.33 An equation of the type $y = kx$ $(k \neq 0)$ represents a line :

(1) passing through the origin
(2) intersecting the coordinate axes at two different points
(3) parallel to x-axis
(4) parallel to y-axis

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710542**
Option 1 ID : **21280742165**
Option 2 ID : **21280742166**
Option 3 ID : **21280742167**
Option 4 ID : **21280742168**
Status : **Not Answered**
Chosen Option : **--**

Q.34 A, B and C started a business by investing ₹ 40,000, ₹ 50,000 and ₹ 60,000 respectively. After 8 months B withdrew ₹ 10,000. After one more month C withdrew ₹ 40,000. Find the ratio in which profit earned at the end of the year will be distributed.

(1) 4 : 5 : 6
(2) 2 : 2 : 1
(3) 12 : 14 : 15
(4) 10 : 12 : 13

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710538**
Option 1 ID : **21280742149**
Option 2 ID : **21280742150**
Option 3 ID : **21280742151**
Option 4 ID : **21280742152**
Status : **Answered**
Chosen Option : **1**

Q.35 In which of the following Union Territories of India is the "National Meat and Polutry Processing Board" located ?

(1) Chandigarh
(2) Puducherry
(3) Delhi
(4) Dadra and Nagar Haveli

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710575**
Option 1 ID : **21280742297**
Option 2 ID : **21280742298**
Option 3 ID : **21280742299**
Option 4 ID : **21280742300**
Status : **Not Answered**
Chosen Option : **--**

Q.36

Find the value of $\sqrt{6+\sqrt{6+\sqrt{6+\sqrt{6+.....}}}}$.

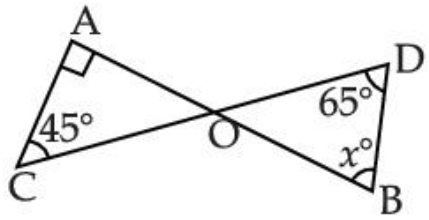
(1) 3
(2) 2
(3) 6
(4) $\sqrt{8}$

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710553**
Option 1 ID : **21280742209**
Option 2 ID : **21280742210**
Option 3 ID : **21280742211**
Option 4 ID : **21280742212**
Status : **Answered**
Chosen Option : **3**

Q.37

From the figure, find x.



(1) 65
(2) 70
(3) 75
(4) 45

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710554**
Option 1 ID : **21280742213**
Option 2 ID : **21280742214**
Option 3 ID : **21280742215**
Option 4 ID : **21280742216**
Status : **Answered**
Chosen Option : **4**

Q.38 Match **List - I** with **List - II**.

List - I (Animals)		**List - II (Natural Habitat)**
(A) Elephants	(I)	Sunderban National park
(B) Camel	(II)	Gir Forest National park
(C) Indian Lion	(III)	Thar Desert
(D) Tiger	(IV)	The Hot Wet forest of Assam and Kerala

Choose the **most appropriate** answer from the options given below :

(1) (A)-(IV), (B)-(III), (C)-(II), (D)-(I)
(2) (A)-(III), (B)-(IV), (C)-(II), (D)-(I)
(3) (A)-(IV), (B)-(III), (C)-(I), (D)-(II)
(4) (A)-(II), (B)-(III), (C)-(IV), (D)-(I)

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710562**
Option 1 ID : **21280742245**
Option 2 ID : **21280742246**
Option 3 ID : **21280742247**
Option 4 ID : **21280742248**
Status : **Answered**
Chosen Option : **1**

Q.39 How many times Mithali Raj played in ICC Women's Cricket World Cup ?

(1) 4
(2) 3
(3) 5
(4) 6

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710557**
Option 1 ID : **21280742225**
Option 2 ID : **21280742226**
Option 3 ID : **21280742227**
Option 4 ID : **21280742228**
Status : **Answered**
Chosen Option : **3**

Q.40

If $\frac{2a^2 - 3b^2}{a^2 + b^2} = \frac{2}{41}$, then a : b =

(1) 5 : 4
(2) 25 : 16
(3) 16 : 25
(4) 4 : 5

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710537**
Option 1 ID : **21280742145**
Option 2 ID : **21280742146**
Option 3 ID : **21280742147**
Option 4 ID : **21280742148**
Status : **Answered**
Chosen Option : **2**

Q.41 Crescograph, a device for measuring growth in plants was invented by which Indian Scientist ?
(1) Jagdish Chander Bose
(2) C. V. Raman
(3) Homi J. Bhabha
(4) Vikram Sarabhai

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710571**
Option 1 ID : **21280742281**
Option 2 ID : **21280742282**
Option 3 ID : **21280742283**
Option 4 ID : **21280742284**
Status : **Not Answered**
Chosen Option : **--**

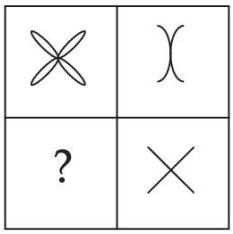
Q.42 A certain weight (in kg) is divided into two parts such that 5 times the first part added to 11 times the second part makes 7 times the whole weight. The ratio of the first part to the second part is :

(1) 1 : 2
(2) 5 : 11
(3) 2 : 1
(4) 2 : 3

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710546**
Option 1 ID : **21280742181**
Option 2 ID : **21280742182**
Option 3 ID : **21280742183**
Option 4 ID : **21280742184**
Status : **Answered**
Chosen Option : **3**

Q.43 Which among the following will continue the same series as established by the given figure.



(1) 

(2) 

(3) 

(4) 

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710587**
Option 1 ID : **21280742345**
Option 2 ID : **21280742346**
Option 3 ID : **21280742347**
Option 4 ID : **21280742348**
Status : **Answered**
Chosen Option : **4**

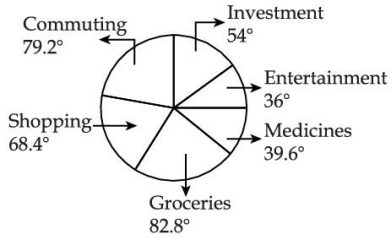
Q.44 A clock is set right at 5 a.m. The clock loss 16 min in 24 h. What time will be right time when the clock indicate 10 p.m. on the 4th day ?

(1) 12:30 p.m.
(2) 12:00 p.m.
(3) 11:00 p.m.
(4) 11:15 p.m.

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710590**
Option 1 ID : **21280742357**
Option 2 ID : **21280742358**
Option 3 ID : **21280742359**
Option 4 ID : **21280742360**
Status : **Answered**
Chosen Option : **3**

Q.45 Degreewise break-up of expenditure of a family in a month is shown in the pie chart. Total amount spent in a month is ₹ 45800.



What is the amount spent by the family on commuting ?

(1) ₹ 10076
(2) ₹ 10354
(3) ₹ 6870
(4) ₹ 8702

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710543**
Option 1 ID : **21280742169**
Option 2 ID : **21280742170**
Option 3 ID : **21280742171**
Option 4 ID : **21280742172**
Status : **Not Answered**
Chosen Option : **--**

Q.46 Which amongst the following is known as "Island of Pearls" ?

(1) Australia
(2) Zanjibar
(3) Bahrain
(4) Panama

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710566**
Option 1 ID : **21280742261**
Option 2 ID : **21280742262**
Option 3 ID : **21280742263**
Option 4 ID : **21280742264**
Status : **Not Answered**
Chosen Option : **--**

Q.47 Find the wrong number of the series.

6400, 3200, 1600, 600, 400, 200, 100, 50

(1) 200
(2) 1600
(3) 100
(4) 600

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710579**
Option 1 ID : **21280742313**
Option 2 ID : **21280742314**
Option 3 ID : **21280742315**
Option 4 ID : **21280742316**
Status : **Answered**
Chosen Option : **4**

Q.48 Which Indian Meteorological satellite has renamed as Kalpana-I in 2003 ?

(1) INSAT-3A
(2) METSAT
(3) INSAT-3C
(4) GSAT-2

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710572**
Option 1 ID : **21280742285**
Option 2 ID : **21280742286**
Option 3 ID : **21280742287**
Option 4 ID : **21280742288**
Status : **Answered**
Chosen Option : **2**

Q.49 If $\sin 2\theta = \cos 40^\circ$, then the smallest positive value of θ is :

(1) 25°
(2) 20°
(3) 40°
(4) 30°

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710547**
Option 1 ID : **21280742185**
Option 2 ID : **21280742186**
Option 3 ID : **21280742187**
Option 4 ID : **21280742188**
Status : **Not Answered**
Chosen Option : **--**

Q.50 **Statements :**

(I) No tree is desktop

(II) All desktops are computers

Conclusion :

(I) Some desktops are tree

(II) Some trees are computer

Which conclusion will follow on the basis of given statement ?

(1) Only **I** follow

(2) Only **II** follow

(3) Both **I** and **II** follows

(4) Neither **I** nor **II** follows

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**
Question ID : **21280710583**
Option 1 ID : **21280742329**
Option 2 ID : **21280742330**
Option 3 ID : **21280742331**
Option 4 ID : **21280742332**
Status : **Answered**
Chosen Option : **4**

Q.51 Who won the T20 Cricket World Cup-2022 held in Australia ?

(1) Australia

(2) England

(3) India

(4) Pakistan

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**
Question ID : **21280710556**
Option 1 ID : **21280742221**
Option 2 ID : **21280742222**
Option 3 ID : **21280742223**
Option 4 ID : **21280742224**
Status : **Answered**
Chosen Option : **3**

Q.52 Two men P and Q start together from place A at 3 km/h and 3.75 km/h respectively for place B. Q reaches half an hour before P. What is the distance that each one has covered ?

(1) 7 km
(2) 7.2 km
(3) 7.5 km
(4) 7.8 km

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710551**
Option 1 ID : **21280742201**
Option 2 ID : **21280742202**
Option 3 ID : **21280742203**
Option 4 ID : **21280742204**
Status : **Answered**
Chosen Option : **3**

Q.53 Mohan is 14^{th} from the left end in a row of 40 boys. What is his position from the right end ?

(1) 21^{th}
(2) 24^{th}
(3) 27^{st}
(4) 25^{th}

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710577**
Option 1 ID : **21280742305**
Option 2 ID : **21280742306**
Option 3 ID : **21280742307**
Option 4 ID : **21280742308**
Status : **Answered**
Chosen Option : **3**

Q.54 Today is Monday. After 60 days it will be ?

(1) Thursday
(2) Tuesday
(3) Friday
(4) Wednesday

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710589**
Option 1 ID : **21280742353**
Option 2 ID : **21280742354**
Option 3 ID : **21280742355**
Option 4 ID : **21280742356**
Status : **Answered**
Chosen Option : **3**

Q.55 **Statement :** European economy is dependent mainly on forests.

Conclusions :

(I) Europe wants only maintainance of forests to improve economic conditions.

(II) Trees should be preserved to improve the Europe economy.

Which conclusion will follow on the basis of given statement ?

(1) Only **Conclusion I** follow

(2) Only **Conclusion II** follow

(3) Both **Conclusion I** and **II** follows

(4) Either **Conclusion I** and **II** follows

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**
Question ID : **21280710582**
Option 1 ID : **21280742325**
Option 2 ID : **21280742326**
Option 3 ID : **21280742327**
Option 4 ID : **21280742328**
Status : **Answered**
Chosen Option : **1**

Q.56 In which city of Punjab, railway coaches are manufactured ?

(1) Ludhiana

(2) Patiala

(3) Kapurthala

(4) Bhatinda

Options 1. 1

2. 2

3. 3

4. 4

Question Type : **MCQ**
Question ID : **21280710565**
Option 1 ID : **21280742257**
Option 2 ID : **21280742258**
Option 3 ID : **21280742259**
Option 4 ID : **21280742260**
Status : **Not Answered**
Chosen Option : **--**

Q.57 If E = 5, PEN = 35 then PAGE = ?

(1) 27
(2) 29
(3) 28
(4) 36

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710585**
Option 1 ID : **21280742337**
Option 2 ID : **21280742338**
Option 3 ID : **21280742339**
Option 4 ID : **21280742340**
Status : **Answered**
Chosen Option : **2**

Q.58 Which of the following article of Constitution of India is related to the Finance Commission ?

(1) Article 21A
(2) Article 280
(3) Article 324
(4) Article 124

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710573**
Option 1 ID : **21280742289**
Option 2 ID : **21280742290**
Option 3 ID : **21280742291**
Option 4 ID : **21280742292**
Status : **Not Answered**
Chosen Option : **--**

Q.59 "CNG" Stands for _____.

(1) Common Natural Gas
(2) Compressed Natural Gas
(3) Common Effective Natural Gas
(4) Compressed Neutral Gas

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710561**
Option 1 ID : **21280742241**
Option 2 ID : **21280742242**
Option 3 ID : **21280742243**
Option 4 ID : **21280742244**
Status : **Answered**
Chosen Option : **2**

Q.60 Starting from point P, Sunil walked 30 m towards South. He turned to his left and walked 40 m. Then, he again turned to his left and walked 30 m. Turning again to his left he walks 15 m and stops there at point N. How far is Sunil from starting point P ?

(1) 30 m
(2) 15 m
(3) 25 m
(4) 10 m

Options 1. 1
2. 2
3. 3
4. 4

Question Type : **MCQ**
Question ID : **21280710576**
Option 1 ID : **21280742301**
Option 2 ID : **21280742302**
Option 3 ID : **21280742303**
Option 4 ID : **21280742304**
Status : **Answered**
Chosen Option : **3**