

SNAP 2011

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General Awareness

Instructions

For the following questions answer them individually

Question 1

- "Swayamsidha" is a scheme launched by the Government of India to help
- A School Children only
- B Health workers only
- C Senior citizen without any regular income
- **D** Women only

Answer: D

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Question 2

What is 'Share swap'?

- A. A business takeover in which acquiring company uses its own stock to pay for the acquired company.
- B. When a company uses its own share to get some short term loan for working capital requirement
- C. When companies are require to float a new issue to earn capital for their expansion programmes, each shareholder gets some additional preferential share. The process is known as Share Swap.
- A Only A
- B Only A and B
- C Only C
- **D** None of the above

Answer: A

Question 3

Regarding "carbon credits" which of the following statements is not correct?

- A The carbon credits system was ratified in conjunction with Kyoto Protocol
- B Carbon credits are awarded to those countries or groups who have reduced the green house gases below their emission quota
- C The goal of carbon credit system is to reduce carbon dioxide emission
- D Carbon credits are traded at a price fixed from time to time by the United Environment Programme

Answer: D

Question 4

Both Foreign Direct Investment (FDI) and Foreign Institutional Investor (FII) are related to investment in a country. Which one of the following statements best represents an important difference between the two?

- A FII helps bring better management skills and technology while FDI only bring capital
- B FII helps in increasing capital availability in general, while FDI only targets specific sectors

- c FDI flows only into secondary markets while FII targets primary markets
- D FII is considered to be more stable than FDI

Answer: B

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Question 5

In context of global oil prices, "Brent crude oil" is frequently referred to in the news. What does this term imply?

- 1) It is a major classification of crude oil
- 2) It is sourced from North sea
- 3) It does not contain sulphur

Which of the statement given above is /are correct?

- A 2 only
- B 1 and 2 only
- C 1 and 3 only
- **D** 1, 2 and 3

Answer: B

Question 6

With reference to "Look East Policy" of India consider the following statements:

- 1. India wants to establish itself as an important regional player in the East Asian affairs
- 2. India wants to plug the vacuum created by the termination of Cold war.
- 3. India wants to restore the historical and cultural ties with its neighbors in Southeast and East Asia.

Which of the statements given above is/are correct?

- A 1 only
- B 1 and 3 only
- C 3 only
- **D** 1, 2 and 3

Answer: B

Question 7

Recently "oilzapper" was in news. What is it?

- A It is eco friendly technology for the remediation of oily sludge and oil spills
- B It is the latest technology developed under sea oil exploration
- C It is genetically engineered high biofuel yielding maize variety
- D It is the latest technology to control accidentally caused flames from oil wells.

Answer: A

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Question 8

Why is the offering of "teaser loans" by commercial banks a cause of economic concern?

- 1. The teaser loans are considered to be an aspect of sub prime lending and banks may be exposed to the risk of defaulters in future.
- 2. The teaser loans are given to inexperienced entrepreneurs to set up manufacturing or export units. Which of the statements given above is/are correct?
- A 1 only
- B 2 only
- C Both 1 and 2
- D Neither 1 nor 2

Answer: A

Question 9

Why is the government of India disinvesting its equity in the Central Public Sector Enterprises (CPSE)?

- 1. The Government intends to use the revenue earned from disinvestment mainly to pay the External debt
- 2. The Government no longer intends to retain the management control of CPSEs

Which of the statements given above is/are correct?

- A 1 only
- B 2 only
- C Both 1 and 2
- D Neither 1 nor 2

Answer: A

Question 10

The book "Unto this Last" which influenced Gandhiji, was authored by

- A Boris Yeltsin
- **B** Pushkin
- C Ruskin Bond
- D John Ruskin

Answer: D

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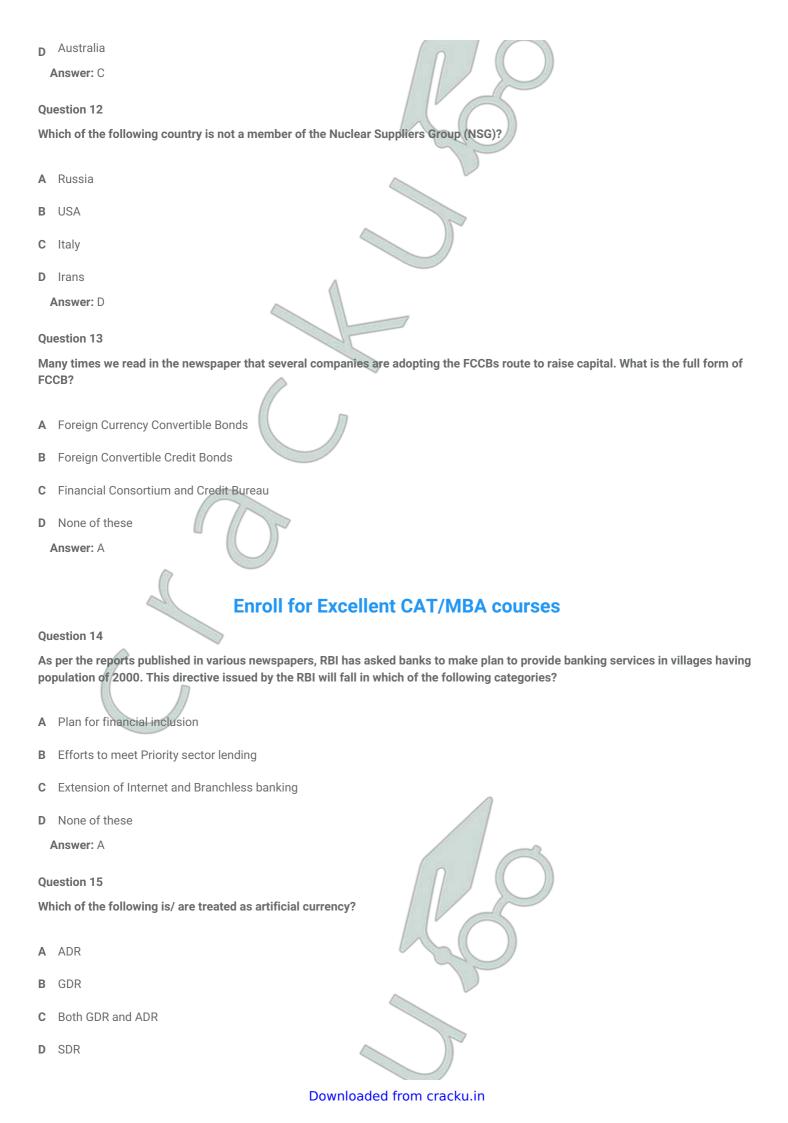
Question 11

Besides USA, India has signed, with which of the following countries the agreement being named as "Cooperation Agreement on the development of Peaceful Uses of Nuclear Energy"?

- A Italy
- **B** Germany
- **C** France







One of the world's biggest Uranium resources was recently found in

State List

Union List

Answer: B

Question 19

Both 1 and 3

Andhra Pradesh

Maharashtra

Jharkhand

Concurrent List

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Question 20

Which of the following was the first venture of Kishore Biyani

- **A** Pantaloons
- **B** Big Bazaar
- **C** Central
- D Future Capital Holdings

Answer: A

Question 21

Who among the following is often referred to as father of India's "Green Revolution"?

- A Dr. Verghese Kurien
- B Dr. Amrita Patel
- C M. S. Swaminathan
- **D** Gurudev Khush

Answer: C

Question 22

Who among the following directed the movie Peepli Live?

- A Ashutosh Gowarikar
- **B** Kiran Rao
- C Anusha Rizvi
- D Seema Chisti

Answer: C

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Question 23

The point at which soild, liquid and gaseous forms of a substance co - exist is called

- A sublimation
- **B** distillation point
- **C** triple point
- **D** melting point

Answer: C

The limit beyond which the stars suffer internal collapse is called the

- A Raman Effect
- **B** Chandrashekhar limit
- C Aurora Borealis
- D Quasan Zone

Answer: B

Question 25

UNDP reports publishes every year the Human Development Index. Which of the following is not a criteria used to measure the Human Development Index?

- A Health
- **B** Education
- C Living Standards
- **D** Human Rights

Answer: D



Question 26

The software company I - flex Solutions was originally a division of which famous financial services company?

- A Citicorp
- **B** ICICI
- C HSBC
- D ABN Amro Bank

Answer: A

Question 27

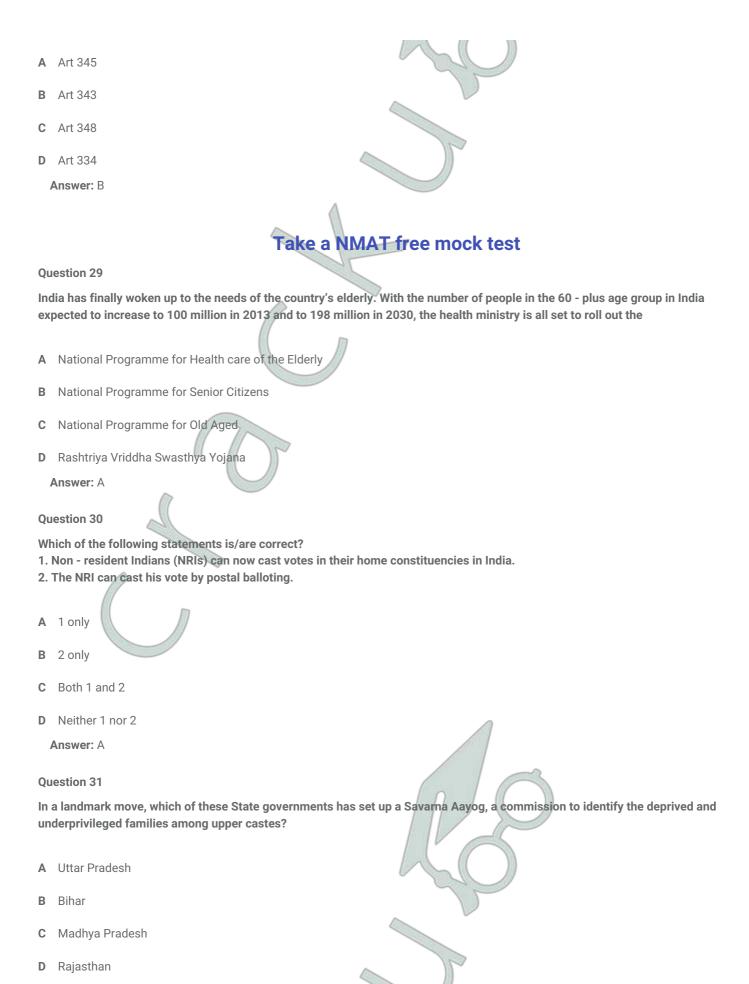
Which of the following is not a member of SAARC?

- A Bhutan
- **B** Bangladesh
- **C** Burma
- **D** Maldives

Answer: C

Question 28

Which article of the Indian constitution recognizes Hindi in Devanagari Script as the official language of India?



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Answer: B

Question 32 Which of these countries has announced one billion US dollar aid for the reconstruction of Nalanda University? Japan Singapore Malaysia China Answer: D **Question 33** What is the name of the in - house magazine to be published by the Indian Railways, to be distributed to the passengers on high end trains? Rail Vishwa Rail Bandhu Rail Mail Rail Patra Answer: B **Question 34** The government, in February 2011, set up a task force to create a way to provide direct subsidies to the ultimate beneficiaries on petroleum working gas and fertilizers. The task force will be headed by Nandan Nilekani Apoorva Sinha Sangam Chitra All of these Answer: A **CAT previous papers (download pdf) Question 35** Which of these countries has been added in the 'BRIC' (Brazil - Russia - India - China) groupin of emerging economies? South Korea Venezuela South Africa Malaysia Answer: C

Question 36 Which of the following countries was the host of First Asian Yoga Championship held recently? Thailand Cambodia Vietnam Laos Answer: A **Question 37** Who among the following has been defeated by Saina Nehwal, who has won the Swiss Open Grand Prix Gold title recently, becoming the First Indian to do so? Ji Hyun Sung Wang Lin Kamilla Rytter Juhl Shinta Mulia Sari Answer: A **CMAT Free Solved Previous Papers. Question 38** On March 6, 2011, the Supreme Court held that has ample powers to enact legislation with respect to extra - territorial aspects for the security of India? President Prime Minister Supreme Court Parliament Answer: D **Question 39** Which country has appointed Brigadier General Ravinder Singh as its next Army chief, the first Sikh in nearly 30 years to be given the force's batton

Thailand

Singapore

Malaysia

Indonesia **Answer:** B

Question 40

Anant Pai, better known as 'Uncle Pai', who recently died was the creator of which among the following comic series?

- A Chacha Chaudhary
- **B** Chandamama
- C Indrajaal
- D Amar Chitra Katha

Answer: D



Reasoning

Instructions

Each question consists of a set of numbered statements. Assume that each one of these statements is individually true. Each of the four choices consists of a subset of these statements. Choose the subset as your answer where the statements therein are logically consistent among themselves:

Ouestion 41

- A. Only if the water level in the coastal areas rises, then the people change their lifestyle.
- B. People change their lifestyle only if they are rewarded.
- C. If people are rewarded, then they will not change their lifestyle.
- D. If the temperature rises, then the water level in the coastal areas rises.
- E. Whenever the water level in the coastal area rises, then the temperature rises.
- F. Unless the people change their lifestyle, temperature rises.
- G. People are rewarded.
- H. Water level in the coastal areas does not rise.
- A C, D, F, G and H
- B G, F, D, B and H
- C E, F, G, H and B
- D None of the above

Answer: 0

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Question 42

- A. If Kumar sings, then the audiences sleep.
- B. If Kumar sings, then the audiences dance.
- C. Unless audience do not dance, the concert will be successful.
- D. Only if the audience dance, the concert will be successful.
- E. If Vina dances, then Kumar sings.
- F. Kumar sings only if Vina dances.
- G. Vina dances
- H. The concert is successful.
- A C, F, G, B and H
- B A, C, F, G and H



- c E, C, G, B and H
- **D** Both (2) and (3)

Answer: C

Instructions

These questions are based on the data given below.

There are only four members of a family viz., A, B, C and D and there is only one couple among them. When asked about their relationships, following were their replies:

- a: A: B is my son. D is my mother.
- b: B: C is my wife. Dis my father.
- c: C: D is my mother in law. A is my daughter.
- d: D: A is my grand daughter. B is my daughter in law

Question 43

Who always speaks the truth?

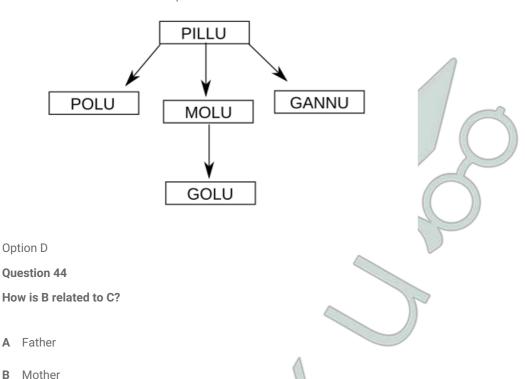
- **A** A
- **B** B
- **c** c
- **D** D

Answer: D

Explanation:

From the statement of A, we cannot state any information about C. Similarly B and C are also providing partial details. We can find out that Dis the grandfather and A is the grandson, and CB are the couple, thus statement B is a complete truth.

We are able to set the relationship.



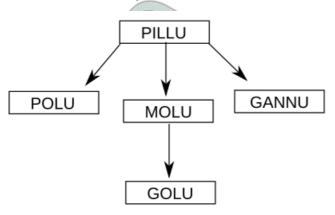
Husband
Answer: C

Wife

Explanation:

From the statement of A, we cannot state any information about C. Similarly B and C are also providing partial details. We can find out that Dis the grandfather and A is the grandson, and CB are the couple, thus statement B is a complete truth.

We are able to set the relationship.



Option C

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Question 45

Which of the following statements must be true?

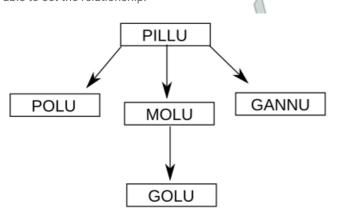
- A A's grandmother alternates between the truth and lie.
- **B** C's wife always speaks the truth.
- **C** A's grandfather always speaks the truth.
- D B's daughter always tells lies.

Answer: D

Explanation:

From the statement of A, we cannot state any information about C. Similarly B and C are also providing partial details. We can find out that Dis the grandfather and A is the grandson, and CB are the couple, thus statement B is a complete truth.

We are able to set the relationship.



Both the statements of B are false.

Option D

Instructions

These questions are based on the following information.

A cube of 7cm × 7cm × 7cm is kept in the corner of a room and painted in three different colours, each face in one colour. The cube is

cut into 343 smaller but identical cubes.

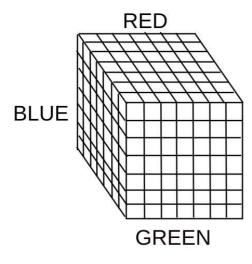
Question 46

How many smaller cubes do not have any face painted?

- **A** 125
- **B** 180
- C 144
- **D** 216

Answer: D

Explanation:



Three faces are painted as given in the figure.

Total number of cubes= 343

Total number of painted cubes=7x7+7x6+6x6=49+42+36=127

Number of cubes which are colourless = 343-127=216

Option D

Question 47

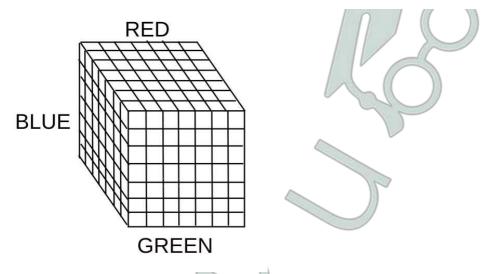
How many smaller cubes have exactly one colour on them?

- **A** 108
- **B** 72
- **C** 36
- **D** 24

Answer: A

Explanation:





Three faces are painted as given in the figure.

Total number of cubes= 343

The number of cubes with only one color on them: Blue= 6x6

Green= 6x6

Red=6x6

=3x36

=108

Option A

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Question 48

How many smaller cubes have at the most two faces painted?

343

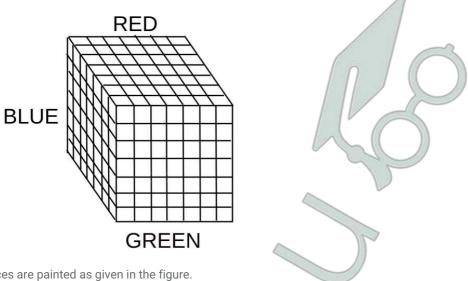
В 342

256

282

Answer: B

Explanation:



Three faces are painted as given in the figure.

Total number of cubes= 343

Faces with three sides painted =1 Answer= 343-1=342

Option B

Instructions

Amit was driving in New Town, where all roads either north - south or east - west forming a grid. Roads were at a distance of 1 km from each other in parallel.

Question 49

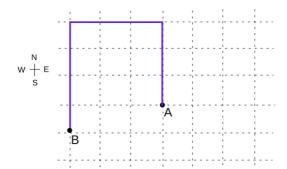
Amit started at the intersection of streets no. 7 and 8. He drove 3 km north, 3 km west and 4 km south. Which further route could bring him back to his starting point?

- I. 3 km east, then 2 km south
- II. 1 km north, then 3 km east
- III. 1 km north, then 2 km west
- A I only
- B II only
- C I and II only
- D II and III only

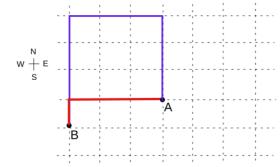
Answer: B

Explanation:

We can draw the following diagram for its initial movement:



To return to its original position it can move along the path II, mentioned above.



Option B is correct.

Question 50

After driving as stated in question no. 49 above, Amit did not return to his starting point but instead drove 4 km east and 1 km north. How far is he from his starting point?

- **A** 5 km
- B 4 km

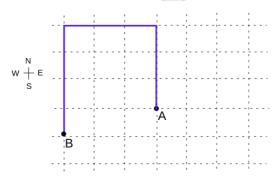
c 1 km

D 7 km

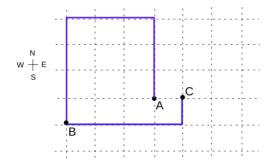
Answer: C

Explanation:

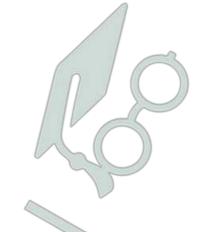
We can draw the following diagram for its initial movement:



Further, it moves 4 km east and 1 km north.



He is 1km from the starting point. Option C



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Instructions

Refer to the following data and answer the questions that follow:

A numerical machine accepts two values X and Y. Then it updates these values as X = XY and Y = Y + 1 in every step. The machine stops at $X \ge N$.

Question 51

For X = 3, Y = 2 and N = 100, how many steps are performed before the machine stops?

A 2

B 3

C 4

D 5

Answer: C

Explanation:

X = 3, Y = 2 and N = 100

Step 1. X=6 Y=3

Step 2. X=18 Y=4

Step 3. X=72 Y=5

Step 4. X=360 Y=6

Hence Option C is correct.

Question 52

In the above question (51), what is the final value of X?

- **A** 6
- **B** 20
- C 72
- **D** 360

Answer: D

Explanation:

X = 3, Y = 2 and N = 100

Step 1. X=6 Y=3

Step 2. X=18 Y=4

Step 3. X=72 Y=5

Step 4. X=360 Y=6

Option D

Question 53

In the above question (51), what is the final value of Y?

- **A** 4
- **B** 5
- **C** 6
- **D** 20

Answer: C

Explanation:

X = 3, Y = 2 and N = 100

Step 1. X=6 Y=3

Step 2. X=18 Y=4

Step 3. X=72 Y=5

Step 4. X=360 Y=6

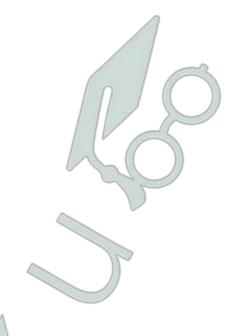
Hence Option C is correct.

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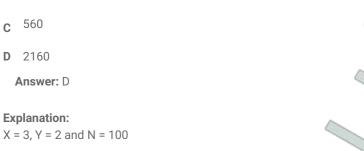
Question 54

If the value of N is changed to 500, what would be the final value of X?

- **A** 360
- **B** 500







Step 1. X=6 Y=3

Step 2. X=18 Y=4

Step 3. X=72 Y=5

Step 4. X=360 Y=6

Step 5. X=2160 Y=7

Hence Option D is correct.

Question 55

If X = 2 and Y = 3, what should be the minimum value of N such that final value of Y is 7?

- 300
- 360
- 720
- 860

Answer: A

Explanation:

1. X=2, Y=3

X = XY and Y = Y + 1

2. X=6, Y=4

3.X=24, Y=5

4. X=120, Y=6

5. X= 720, Y=7

Hence X can take any value above 120

Hence among the given values Option A is the correct choice.

Instructions

Refer to the following statements and answer the questions:

Seven students Priya, Ankit, Raman, Sunil, Tony, Deepak and Vicky take a series of tests. No two students get similar marks. Vicky always scores more than Priya. Priya always scores more than Ankit. Each time either Raman scores the highest and Tony gets the least, or alternatively Sunil scores the highest and Deepak or Ankit scores the least.

Question 56

If Sunil is ranked sixth and Ankit is ranked fifth, which of the following can be true?

- Vicky is ranked first or fourth
- Raman is ranked second or third
- Tony is ranked fourth or fifth
- Deepak is ranked third or fourth

Answer: D



Explanation: The following arrangement is possible: 1.Raman 2. 3. 4. 5.Ankit 6.Sunil 7.Toni Deepak can rank any among 2nd, 3rd, 4th respectively. Hence Option D is correct. Take a free SNAP mock test **Question 57** If Raman gets the highest, Vicky should be ranked not lower than: Second Third Fourth Fifth Answer: C **Explanation:** Lowest position for Vicky which satisfy the above conditions is: 1.Raman 2. 3. 4.Vicky 5.Priya 6.Ankit 7. Toni Vicky cannot get the position lower than this. Option C **Question 58** If Raman is ranked second and Ankit is ranked first, which of the following must be true? Sunil is ranked third Tony is ranked third Priya is ranked sixth None of these. Answer: D

Priya always scores more than AnkitHence there is a logical error.
Option D
Question 59
If Sunil is ranked second, which of the following can be true?
A Deepak gets more than Vicky
B Vicky gets more than Sunil
C Priya gets more than Raman
D Priya gets more than Vicky
Answer: A
Explanation:
It is given in the question: Vicky always scores more than Priya. Priya always scores more than Ankit.
If Sunil ranked second, then Raman scored the highest and Tony scored the least.
Raman -1
Sunil -2
Tony -7
Hence only statement A is possible, all the other options are incorrect.
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Question 60
If Vicky is ranked fifth, which of the following must be true?
A Sunil scores the highest
B Raman is ranked second
C Tony is ranked third
D Ankit is ranked second
Answer: A
Explanation:
Vicky ranked fifth then Priya and Ankit should be sixth and seventh respectively.
Sunil scores the highest and Deepak or Ankit scores the least.

Instructions

Option A

For the following questions answer them individually

Thus Sunil will score the highest.

Question 61

In 2002, according to a news poll, 36% of the voters had leaning towards party "Y". In 2004, this figure rose to 46%. But in another survey the percentage was down to 40%. Therefore, the party "Z" is likely to win the next election. Which of the following, if true, would seriously weaken the above conclusion?

- A People tend to switch their votes at the last minute.
- B It has been showed that 85% of the voters belonging to the party "Y" vote in an election as compared to 80% of the voters belonging to party "Z".
- C 35% of people favour party "Z".
- **D** No one can predict how people will vote.

Answer: C

Explanation:

Conclusion: the party "Z" is likely to win the next election

Option A: People tend to switch their votes at the last minute, still they can give vote to any party, thus the party Z might win the

Option B: Even if the given scenario turnout, still party X will have the majority.

Option C: This statement will weaken the main argument of the passage as it contradicts the prediction of the chances of winning.

Option D: Still election can turn out in any direction.

Option C is correct.

Question 62

Inflation rose by 5% over the second quarter, by 4% during the first quarter and higher than 3% recorded during the same time last year. However, the higher price index did not seem to alarm National stock Index as stock prices remain steady.

Which of the following, if true, could explain the reaction of National stock Index?

- A RBI announced that it will take necessary corrective measures
- B Stock prices were steady because of a fear that inflation would continue.
- C Economists warned that inflation would continue.
- D Much of the quarterly increase in the price level was due to a summer drought effect on food price.

Answer: D

Explanation:

Inflation rose by 5% over the second quarter, by 4% during the first quarter and higher than 3% recorded during the same time last year. However, the higher price index did not seem to alarm the National stock Index as stock prices remain steady.

Option A: The option might be true, but cannot guarantee that National stock Index will remain steady.

Option B and C cannot explain the reaction of National stock Index, they are opposite of what the index expects.

Option D is correct, as it will confirm the inflation to be temporary because of the external factors.

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Question 63

Pick up the appropriate analogy.

Birth: Dirge

A Sunset: sunrise

B security check : arrival

C marriage: alimony

D welcome address: vote of thanks

Answer: C

Explanation:

dirge: a lament for the dead, especially one forming part of a funeral rite.

The two are related as the second is the act performed on the antonym of the first.

Option A: Sunset: sunrise are just antonyms.

Option B: security check: arrival, even at the arrival a security check is done.

Option C:marriage: alimony, Alimony is a provision for a spouse on divorce.

Option D: welcome address: vote of thanks, not related

Hence Option C is correct

Question 64

Beautiful beaches attract people, no doubt about it. Just look at this city's beautiful beaches, which are among the most over crowded beaches in the state. Which of the following exhibits a pattern of reasoning most similar to the one exhibited in the argument above?

- A Moose and bear usually appear at the same drinking hole at the same time of day. Therefore, moose and bear must grow thirsty at about the same time.
- Children who are scolded severely tend to misbehave more often than other children. Hence if a child is not scolded severely that child is less likely to misbehave.
- This software programme helps increase the work efficiency of its users. As a result, these users have more free time for other activities.
- D During weather my dog suffers from fleas more than during cooler weather. Therefore, fleas must thrive in a warm environment.

Answer: D

Explanation:

Beautiful beaches attract people, no doubt about it. Just look at this city's beautiful beaches, which are among the most overcrowded beaches in the state. The pattern of reasoning exhibited in the argument above It generalised one model to all over the world. The similar generalisation is in Option D, the extent spread of fleas is generalised by taking an example of a particular dog.

Question 65

No national productivity measures are available for underground industries that may exist but remain unreported. On the other hand, at least some industries that are run entirely by self - employed industrialists are included in national productivity measures. From the information given above, it can be validly concluded that

- A there are at least some industries run entirely by self employed industrialists that are underground industries
- **B** no industries that are run entirely by self employed industrialists operate underground.
- C there are at least some industries other than those run entirely by self employed industrialists that are underground industries.
- D there are at least some industries run entirely by self employed industrialists that are not underground industries

Answer: D

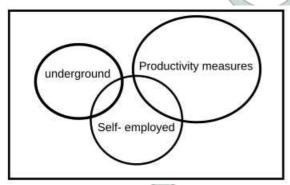
Explanation:

No national productivity measures are available for underground industries that may exist but remain unreported.

Underground industries: No national productivity measures

At least some industries that are run entirely by self - employed industrialists are included in national productivity measures.

Some self - employed industrialists industries: national productivity measures



Only Option D is correct.

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Question 66

Nilu has never received a violation from the Federal Aviation Administration during her 16 - year flying career. Nilu must be a great pilot.

Which of the following can be said about the reasoning above?

- A The definitions of the terms create ambiguity
- B The argument uses circular reasoning
- C The argument is built upon hidden assumptions
- D The argument works by analogy

Answer: C

Explanation:

Nilu has never received a violation from the Federal Aviation Administration during her 16 - year flying career. Nilu must be a great pilot.

We cannot infer the argument "Nilu must be a great pilot." on the basis of a single premise, there must be major hidden assumptions to state this argument.

Question 67

Many people argue that the death penalty deters murder. However, the notorious killer Tom Hanks deliberately moved to a state that imposes the death penalty just before embarking on a series of ferocious murders. Thus, it seems clear that the existence of the death penalty does not serve as a deterrent to murder. The argument above may best be characterized as:

- A an appeal to emotion.
- B a flawed analogy.
- C a general conclusion based on a specific example.
- D circular reasoning.

Answer: C

Explanation:

Premise:

- 1. people argue that the death penalty prevents murder.
- 2. notorious killer Tom Hanks deliberately moved to a state that imposes the death penalty just before embarking on a series of ferocious murders.

Argument: "the existence of the death penalty does not serve as a deterrent to murder"

The argument is drawn on a specific example, hence, Option C is correct.

Question 68

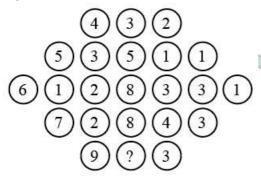
What number should replace the question mark?



- Δ
- **B** 4
- C 12
- **D** 6

Answer: D

Explanation:



The values in the middle column are the average of the sum of values on both sides.

(4+2)/2 = 3

(5+3+1+1)/2 = 5

(6+1+2+3+3+1)/2 = 8

....

(9+3)/2=6

Option D

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Question 69

The fewer restrictions there are on the advertising of legal services, the more lawyers there are who advertise their services, and the lawyers who advertise a specific service usually charge less for that service than lawyers who do not advertise. Therefore if the state removes any of its current restrictions, such as the one against advertisements that do not specify fee arrangements, overall consumer legal costs will be lower than if the state retains its current restrictions.

If the statements above are true, which of the following must be true?

Some lawyers who now advertise will charge more for specific services if they do not have to specify fee arrangements in the advertisements.

- More consumers will use legal services if there are fewer restrictions on the advertising of legal services.
- c If the restrictions against advertisements that do not specify fee arrangements is removed, more lawyers will advertise their services.
- If more lawyers advertise lower prices for specific services, some lawyers who do not advertise will also charge less than they currently charge for those services.

Answer: C

Explanation:

Premise (facts) -

- 1. "The fewer restrictions on the advertising of legal services —— the more lawyers there are who advertise their services" which imply: Lesser restrictions will lead to more advertisements by the lawyers
- 2. The lawyers who advertise a specific service charge less for that service than lawyers who do not advertise.
 - : The one who advertise charges lesser fee for their services.

Argument-

"Therefore if the state removes any of its current restrictions, such as the one against advertisements that do not specify fee arrangements, overall consumer legal costs will be lower than if the state retains its current restrictions.

Argument: If the state removes restrictions on advertisements, the consumer legal costs will decreas e.

Option A: It is against the **argument** as if some lawyers start charging more for their services, will increase the legal cost for consumers.

Option B: The statement is far-fetched, we cannot state that more consumers will use legal services if we remove restrictions.

Option C: It is the unstated inference between the facts and the main argument. Hence the correct option.

"If the restrictions [are]..... removed, more lawyers will advertise their services."

Option D: This statement is also far-fetched. More number of lawyers will advertise but whether other lawyers will decrease their fees is an overstatement.

Option C is correct.

Question 70

The fewer restrictions there are on the advertising of legal services, the more lawyers there are who advertise their services, and the lawyers who advertise a specific service usually charge less for that service than lawyers who do not advertise. Therefore if the state removes any of its current restrictions, such as the one against advertisements that do not specify fee arrangements, overall consumer legal costs will be lower than if the state retains its current restrictions.

Which of the following, if true, would most seriously weaken the argument concerning overall consumer legal costs?

- A The state is unlikely to remove all of the restrictions that apply solely to the advertising of legal services.
- B Lawyers who do not advertise generally provide legal services of the same quality as those provided by lawyers who do advertise.
- **C** Most lawyers who now specify fee arrangements in their advertisements would continue to do so even in the specification were not required.
- D Most lawyers who advertise specific services do not lower their fees for those services when they begin to advertise.

Answer: D

Explanation:

Premise (facts) -

1. "The fewer restrictions on the advertising of legal services — the more lawyers there are who advertise their services" which imply: Lesser restrictions will lead to more advertisements by the lawyers

2. The lawyers who advertise a specific service charge less for that service than lawyers who do not advertise.

: The one who advertise charges lesser fee for their services.

Argument-

"Therefore if the state removes any of its current restrictions, such as the one against advertisements that do not specify fee arrangements, overall consumer legal costs will be lower than if the state retains its current restrictions.

Argument: If the state removes restrictions on advertisements, the consumer legal costs will decreas e.

Option A & Option B do not attack the main argument that the consumer legal cost will decrease.

Option C does not weaken the argument.

Option D: If the lawyers will not lessen the fees even after the state removes the restrictions, then the consumer still has to bear the higher legal costs.

Hence Option D is correct.



Quantitative Aptitude

Instructions

For the following questions answer them individually

Question 71

A train travelling at 36 kmph crosses a platform in 20 seconds and a man standing on the platform in 10 seconds. What is the length of the platform in meters?

- A 240 meters
- B 100 meters
- C 200 meters
- D 300 meters

Answer: B

Explanation:

Speed of the Train = 36 km/hr.

- = $36 \times 5/18$ [Changing into m/s]
- $= 2 \times 5$
- = 10 m/s.

Time taken to cross the Platform = 20 seconds.

Time taken to cross the man = 10 seconds.

- ∵ Speed of the Train = Length of the Train/Time to cross the Man
- \therefore Length of the Train = Speed of the Train × Time to cross the Man.
- $= 10 \times 10$
- $= 100 \, \text{m}.$

Sum of the Length of Platform and train = Speed of the Train × Time taken by the Train to cross the Platform.

- $= 10 \times 20$
- = 200 m.
- ∵ Length of the Train + Length of the Platform = 200
- ∴ 100 + Length of the Platform = 200
- : Length of the Platform = 200 100
- = 100 m.
- : Length of the Platform is 100 m.



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Question 72

By walking at 4_5th of his usual speed, a man reaches office 10 minutes later than usual. What is his usual time?

- 20 min
- 40 min
- 30 min
- 50 min

Answer: B

Explanation:

Let the usual speed and the time taken by the man = 5v, 4t respectively.

If the man walks at $\frac{4}{5}th$ of his usual speed, a man reaches office 10 minutes later than usual

i.e the time taken by the man = $\begin{bmatrix} 5 \\ 4 \end{bmatrix}$ of the usual time (Speed and time are inversely proportional to each other)

=5t

5t-4t = 10 minutes.

t = 10 minutes.

Usual time taken by the man = 4t = 40 minutes

B is the correct answer.

Question 73

A man and a woman 81 miles apart from each other, start travelling towards each other at the same time. If the man covers 5 miles per hour to the women's 4 mile per hour, how far will the woman have travelled when they meet?

- 27
- 36
- 45
- None of these

Answer: B

Explanation:

Time taken to meet =

Dis an ce between them

 $Relative\ speed$

Relative Speed = 5 +4 = 9 miles per hour.

Time take to cover 81 miles = 9 = 9 hours.

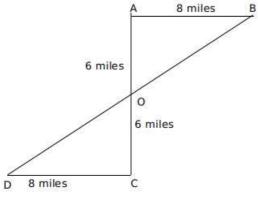
Woman travelled in 9 hours = 9*4 = 36 miles.

Question 74

Two people were walking in opposite directions. Both of them walked 6 miles forward then took right and walked 8 miles. How far is each from starting positions?

- 14 miles and 14 miles
- 10 miles and 10 miles
- 6 miles and 6 miles
- 12 miles and 12 miles

Explanation:



1 person:

$$6^2 + 8^2 = OB^2$$

$$\sqrt{(36+64)} = OB$$

$$\sqrt{(100)} = OB$$

The distance of the first person from his starting point is 10 miles.

Similarly, the distance of the second person from his starting point is 10 miles.

B is the correct answer

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Question 75

Four men and three women can do a job in 6 days. When 5 men and 6 women work on the same job, the work gets completed in 4 days. How long will 2 women and 3 men take to do the job?

A 18

B 10

C 8.3

D 12

Answer: C

Explanation:

(4M + 3W)6 = (5M + 6W)4 = W

4M = 6W

2M = 3W

let x be the number of days taken by 2 women and 3 men take to do the job

(4M+3W)6=(2W+3M)x

9W*6=6.5W*x

x=8.3 days

C is the correct answer.

Question 76

Ram completes 60% of a task in 15 days and then takes the help of Rahim and Rachel. Rahim is 50% as efficient as Ram is and Rachel is 50% as efficient as Rahim is. In how many more days will they complete the work?

A $\frac{127}{3}$



Answer: C

Explanation:

Let the total work be 25x units

Ram completes 60% of the task in 15 days.

Ram's efficiency = x units per day

Rahim is 50% as efficient as Ram is and Rachel is 50% as efficient as Rahim is

Efficiency of Rahim = 0.5x units per day

Efficiency of Rahim = 0.25x units per day

Ram will come 15x units in 15 days.

The remaining 10x units of work will be done by Ram, Rahim, Rachel.

$$= x + 0.5x + 0.25x$$

$$= 10$$
 $= 1.75$

C is the correct answer.

Question 77

A and B can do a piece of work in 21 and 24 days respectively. They start the work together and after some days A leaves the work and B completes the remaining work in 9 days. After how many days did A leave?



B 7

C 8

D 6

Answer: B

Explanation:

Let the total work be LCM of (21, 24) = 168 units.

Amount of work done by A on 1 day = $\begin{array}{c} 168\\21\end{array}$ = 8 units

Amount of work done by B on 1 day = $\begin{array}{c} 168 \\ 24 \end{array}$ = 7 units

Let p be the number of days for which they worked together.

In P days, the amount of work done by A and B = 15p

Remaining work = 168x-15p, which is completed by B in 9 days

168x-15p=9*7

p=7

So A left after 7 days.

B is the correct answer.



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Question 78

A trader makes a profit equal to the selling price of 75 articles when he sold 100 of the articles. What % profit did he make in the transaction?

- **A** 33.33%
- **B** 75%
- **C** 300%
- **D** 150%

Answer: C

Explanation:

It is given that profit on 100 articles = SP of 75 articles

$$4(SP-CP) = 3SP$$

$$\text{Profit} = \begin{array}{c} \textit{SP-CP} \\ \textit{CP} \end{array} \times \ 100$$

$$= {^{4CP-CP}_{CP}} \times 100$$

=300%

C is the correct answer.

Question 79

In a 100 M race, if A gives B a start of 20 meters, then A wins the race by 5 seconds. Alternatively, if A gives B a start of 40 meters the race ends in a dead heat. How long does A take to run 200 M?

- A 10 seconds
- B 20 seconds
- C 30 seconds
- **D** 40 seconds

Answer: C

Explanation:

Let us consider A covers 100 m in t sec.

Speed of A =
$$t^{100}$$

Since A gave B a headstart of 20m, B covers 80m in (t+5) sec (Given)

Speed of B =
$$\begin{bmatrix} 80 \\ t+5 \end{bmatrix}$$

If A gives head start of 40m to B, then the time taken by A to cover 100m is the same as the time taken by B to cover 60m

$$100 \atop t = 60 \atop t+5$$

n solving for t, we get

1

Time taken by A to cover 200m(x) =200=time * x = 30 secC is the correct answer. **Question 80** A 4 cm cube is cut into 1cm cubes. What is the percentage increase in the surface area after such cutting? 4% 300% 75% 400% Answer: B **Explanation:** Initial surface area of the cube = $6(side)^2$ $= 6(4)^2$ $= 96cm^{2}$ $Volume\ of\ older\ cube$ No. of new cubes = Volume of 1 new cube $1 \times 1 \times 1$ =64 cubes Newer surface area of 64 cubes = $64*6(1)^2$ = $384cm^2$ Percentage increase in surface area = 28800 = 300% B is the correct answer

Question 81

A number G236G0 can be divided by 36 if G is:

- **A** 8
- **B** 6
- C
- D More than one values are possible.

Answer: A

Explanation:

36 = 9*4 Since 9 and 4 are co-prime to each other, we can say that for a number to be divisible by 36 it must be divisible by both 9 and 4

For G236G0, to be divisible by 4, last two digits should be divisible by 4.

Hence G0 should be a multiple of 4.

Possible values of G are 2, 4, 6, 8, 0

For the number to be divisible by 9, the sum of the digits should be a multiple of 9

G+2+3+6+G+0 = 11+2G should be multiple of 9

If G = 0, 11+2G is not a multiple of 9

If G = 2, 11+2G is not a multiple of 9

If G = 4, 11+2G is not a multiple of 9

If G = 6, 11+2G is not a multiple of 9

If G = 8, 11+2G is a multiple of 9.

Hence 8 is the correct answer.

Question 82

Amit can do a work in 12 days and Sagar in 15 days. If they work on it together for 4 days, then the fraction of the work that is left is:

- **A** $\frac{3}{20}$
- **B** $\frac{3}{5}$
- **c** $\frac{2}{5}$
- **D** $\begin{array}{cc} 2 \\ 20 \end{array}$

Answer: C

Explanation:

Let the total work be LCM of (12, 15) = 60 units.

Amount of work done by Amit on one day = ${}^{60}_{12}$ = 5 units

Amount of work done by Sagar on one day = $\begin{bmatrix} 60 \\ 15 \end{bmatrix}$ = 4 units

Amount of work completed by them on 4 days = (5+4)*4 = 36 units

The amount of work left out = 60-36 = 24 units.

Fraction of work left out = $\frac{24}{60}$

= 2 5

C is the correct answer.

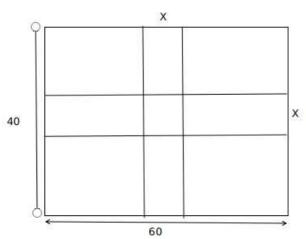
Question 83

A rectangular park 60 m long and 40 m wide has two concrete crossroads running in the middle of the park and rest of the park has been used as a lawn. If the area of the lawn is 2109 sq. m, then what is the width of the road?

- **A** 2.91 m
- **B** 3 m
- **C** 5.82 m
- **D** None of these

Answer: B

Explanation:



Area of the park = $(60 \times 40) \text{ m}^2 = 2400 \text{ m}^2$.

Area of the lawn = 2109 m^2 .

Area of the crossroads = $(2400 - 2109) \text{ m}^2 = 291 \text{ m}^2$.

Let the width of the road be x metres

Then, $60x + 40x - x^2 = 291$

$$x^2 - 100x + 291 = 0$$

$$(x-97)(x-3)=0$$

$$x = 3$$
.

B is the correct answer

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Question 84

A bag contains 5 white and 3 black balls; another bag contains 4 white and 5 black balls. From any one of these bags a single draw of two balls is made. Find the probability that one of them would be white and another black ball.

- **A** $\begin{array}{c} 275 \\ 504 \end{array}$
- B $^{5}_{18}$
- **C** 9^{5}
- D None of these

Answer: A

Explanation:

Let P(B₁) and P(B₂) denote the probabilities of the events of drawing balls from the bag I or bag II.

Since both the bags are equally likely to be selected, $P(B_1) = P(B_2) = \frac{1}{2}$

Let E denote the event of drawing two balls of different colours from a bag.

The required probability

=
$$P(B_1)P(B_1) + P(B_2)P(B_2)$$

 $\stackrel{E}{\text{P(}}$ P($\stackrel{B_1}{B_1})$ denote the probability of drawing the two balls from bag I and as that from bag II.

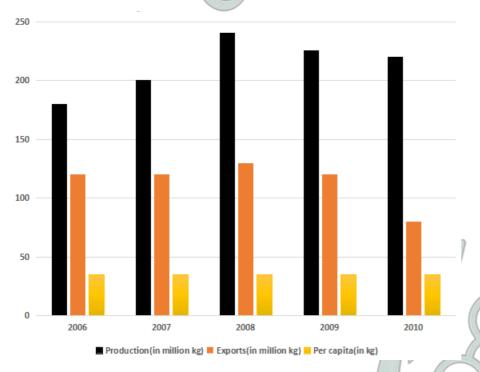
= 504

A is the correct answer.

Instructions

Answer the questions on the basis of the information given below.

The following bar graph gives the production, exports and per capita consumption of rice in country A, for the five years from 2006 to 2010.



Consumption = Production - Exports

Per Capita Consumption = (Consumption) ÷ (Population)

Question 85

In which year was the percentage increase in the consumption of rice over the previous year, the highest?

- **A** 2007
- **B** 2008
- **C** 2009
- **D** 2010

Answer: B

Explanation:

Year	Consumption of rice	% increase wrt previous year
2006	72.5	5
2007	88	21.38
2008	108	22.73
2009	105	-
2010	127	20.95

From the above table, it is clear that the percentage increase in the consumption of rice over the previous year was highest in 2008

B is the correct answer.

Question 86

What is the population of country A in the year 2008 (in million)?

A 2.64 million

B 2.72 million

C 2.79 million

D 2.85 million

Answer: C

Explanation:

Consumption
Population = Percapita consumption

In 2008, the population of A = $\begin{pmatrix} 230-138\\ 38.7 \end{pmatrix}$ = 2.79 million

C is the correct answer.

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Question 87

The ratio of exports to consumption in the given period was the highest in the year

A 2006

B 2007

C 2008

D 2009

Answer: A

Question 88

In which of the given years was the population of country A, the highest?

A 2007

B 2008

C 2009

D 2010

Answer: D

Explanation:

Consumption
Population = Percapita consumption

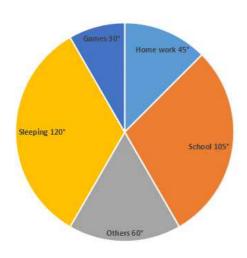
Year	Consumption	Percapita consumption	Population(in millions)
2006	72.5	36.25	2
2007	88	35.2	2.5
2008	108	38.7	2.79
2009	105	40.5	2.59
2010	127	42	3.02

The population of country A was the highest in the year 2010.

Instructions

The following pie chart shows the hourly distribution in a day (in degrees) of all the major activities of a student. Moreover, a day has 24

hours.



Question 89

The percentage of time which he spends in school is:

- **A** 38%
- **B** 30%
- C 40%
- **D** 25%

Answer: B

Explanation:

The time spent in school corresponds to \$105^0 \$\$

Percentage of time spent in school = $^{105}_{360} \times 100$

= Approx 30%

B is the correct answer.

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Question 90

How much time (in per cent) does he spend in games in comparison to sleeping?

- **A** 30%
- **B** 40%
- **C** 25%
- D None of these

Answer: C

Explanation:

Time spent on games corresponds to 30^{0} and on sleeping to 120^{0}

Required ratio = $^{30}_{120} \times 100$

=25%

C is the correct answer.

Question 91

If he spends the time in games equal to the home work and remains constant in other activities, then the percentage decrease in time of sleeping:

- **A** 15%
- **B** 12.5%
- C 20%
- D None of these

Answer: B

Explanation:

The time spent in playing games and in doing homework corresponds to 30° and 45° respectively.

If the time spent in playing games is equal to that spent on doing homework, then there should be an increase of 15° in the time spent in games.

If this 15° is obtained by decreasing the time spent in sleeping (with the other activities remaining constant),

The percentage decrease in the time spent in sleeping = $^{15^0}_{120^0} imes 100$

 $=12.5^{0}$

B is the correct answer

Question 92

What is the difference in time (in hours) spent in school and in home work?

- **A** 2
- **B** 3
- **C** 4
- **D** 8

Answer: C

Explanation:

School corresponds to $\,105^0$ and homework corresponds to $\,45^0$

Difference = $105^0 - 45^0$

- $=60^{0}$
- $= {}^{60}_{360} \times 24$

= 4 hrs

C is the correct answer.

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Question 93

If he spends $^{1}_{3}rd$ time of homework in Mathematics then the number of hours he spends in rest of the subjects in home work:

- Α
- **B** 2

C

D 4

Answer: B

Explanation:

The total number of hours = 24

Time spent on homework = 45^{0}

$$= {}^{45}_{360} \times 24 = 3 \text{ hrs}$$

It is given that she spent 3rd time of homework in Mathematics.

The time she spent on Mathematics = $\begin{smallmatrix}1\\3\\ imes\end{smallmatrix} imes 3$

=1 hr

The time she spent on the rest of the subjects = 3-1 = 2 hr

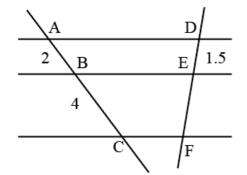
B is the correct answer.

Instructions

For the following questions answer them individually

Question 94

Three parallel lines are cut by two transversals as shown in the given figure. If AB = 2 cm, BC = 4 cm and DE = 1.5 cm, then the length of EF is:





B 3 cm

C 3.5 cm

D 4 cm

Answer: B

Explanation:

AD is parallel to BE is parallel to CF

$$^{AB}_{BC} = ^{DE}_{EF}$$
 [Basic proportionality theorem]

B is the correct answer.

Question 95

Find the value of $\log_{10} 10 + \log_{10} 10^2 + \dots + \log_{10} 10^n$

A
$$n^2 + 1$$

c
$$\binom{(n^2+n)}{2} \cdot \binom{n(n+1)}{3}$$

D
$$\binom{n^2+n}{2}$$

Answer: D

Explanation:

$$\log_{10} 10 + \log_{10} 10^2 + \dots + \log_{10} 10^n$$

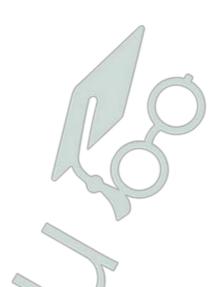
Since $\log_a a = 1$

$$\log_{10} 10 + \log_{10} 10^2 + \dots + \log_{10} 10^n$$
 = 1+2+....n

$$=$$
 $n(n+1)$

$$= \begin{pmatrix} n^2 + n \end{pmatrix}$$

D is the correct answer.



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Question 96

The sum of a number and its reciprocal is thrice the difference of the number and its reciprocal. The number is:

A
$$\pm\sqrt{2}$$

B
$$+\sqrt{2}$$

C
$$\pm \sqrt{3}$$

D
$$\pm\sqrt{3}$$

Answer: A

Explanation:

Let the number be a

It is given that sum of a number and its reciprocal is thrice the difference of the number and its reciprocal.

$$a + a = 3(a - a)$$

$$2a = \begin{pmatrix} 4 \\ a \end{pmatrix}$$

$$a = a$$

$$a^{2} = 2$$

a =
$$\pm\sqrt{2}$$

A is the correct answer.

Question 97

The total number of Natural numbers that lie between 10 and 300 and are divisible by 9 is

A 32

B 30

C 33

Explanation:

The first natural number between 10 and 300 which is divisible by 9 is 18

The last natural number which is divisible by 9 and is less than 300 is 297

This is an AP with first term 18, the last term 297 and common difference = 9

$$n-1 = 31$$

n=32

A is the correct answer.

Question 98

If ${}^{n}C_{x}=56$ and ${}^{n}P_{x}=336$, then Find n and x?

- **A** 7, 3
- **B** 8, 4
- C 8,3
- **D** 9, 6

Answer: C

Explanation:

$$^{n}P_{r} = ^{n}C_{r}$$
*rl

$$^{n}P_{x} = 336$$

$$^{n}C_{x} * x! = 336$$

x!=6

x=3

$$^nC_x = 56$$

$$(n-x)! \times x! = 56$$

$$\binom{n!}{(n-3)! \times 3!} = 56$$

n=8

∴ n= 8, x=3

Question 99

C is the correct answer.

CMAT Free Solved Previous Papers.

One side of an equilateral triangle is 24 cm. The midpoints of its sides are joined to form another triangle whose midpoints are in turn joined to form still another triangle. This process continues indefinitely. Find the sum of the perimeters of all the triangles.

- **A** 144 cm
- **B** 72 cm

536 cm

D 676 cm

Answer: A

Explanation:

Side of an equilateral triangle= 24 cm

The mid-points of its sides are joined to form another triangle whose mid-points are joined to form another triangle. This process continues indefinitely.

Side of 2nd equilateral triangle=12 cm [Line segment joining midpoint of two sides of a triangle is parallel to the third side and half of it.]

Similarly, Side of third equilateral triangle=6 cm

Sides are 3, 1.5,3/4,....

Perimeter of 1st triangle=24+24+24=72 cm

Perimeter of 2nd triangle=12+12+12=36 cm

Perimeter of 3rd triangle=6+6+6=18 cm

.....

The sum of the perimeter of all the triangles=72+36+18+9+9/2+9/4+......

This is a geometric progression having a common ratio =36/72=1/2

Sum of an infinite G.P=

 $= 72 \times 2$

=144 which is the sum of the perimeter of all triangles.

A is the correct answer.

Question 100

The probability that a leap year selected at random contains either 53 Sundays or 53 Mondays, is:

- A 53
- B 53
- C
- **D** None of these

Answer: C

Explanation:

Total number of days in a leap year = 366

It will contain 52 weeks and 2days

These two days can be (Sunday, Monday); (Monday, Tuesday); (Tuesday, Wednesday); (Wednesday, Thursday); (Thursday, Friday); (Friday, Saturday); (Saturday, Sunday)

For 53 Sundays, probability = $\frac{2}{7}$

Similarly for 53 Mondays, probability = $\frac{2}{7}$

This includes one way where Sunday and Monday occur simultaneously (i.e) Sunday, Monday

Probability for this = $\frac{1}{7}$

Hence required probability = $\begin{pmatrix} 2 \\ 7 \end{pmatrix} + \begin{pmatrix} 2 \\ 7 \end{pmatrix} - \begin{pmatrix} 1 \\ 7 \end{pmatrix}$

= 7

C is the correct answer.

Question 101

Find the intercepts made by the line 3x + 4y - 12 = 0 on the axes:

- **A** 2 and 3
- **B** 4 and 3
- C 3 and 5
- **D** None of these

Answer: B

Explanation:

The intercept form of the line = $\begin{pmatrix} x \\ a \end{pmatrix} + \begin{pmatrix} y \\ b \end{pmatrix} = 1$ where a is x-intercept and b is y-intercept

$$3x + 4y - 12 = 0$$

$$3x + 4y = 12$$

$${\overset{x}{4}} + {\overset{y}{3}} = 1$$

So the intercepts are 4 and 3.

B is the correct answer.

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Question 102

The average of 4 distinct prime numbers a, b, c, d is 35, where a < b < c < d. a and d are equidistant from 36 and b and c are equidistant from 34 and a, b are equidistant from 30 and c and d are equidistant from 40. The difference between a and d is:

- **A** 30
- **B** 14
- **C** 21
- D Cannot be determined

Answer: B

Explanation:

Given,

The average of the four prime numbers = 35.

$$a + b + c + d = 35 * 4 = 140$$
.

Since a and d are equidistant from 36.

$$a + d = 72 --- Eq.(1)$$

$$b + c = 68 - Eq (2)$$

$$a + b = 60 - Eq (3)$$
 and $c + d = 80 - Eq (4)$

Using the equation (3) let us look for the prime values of a and b and the corresponding values of c and d using Eq 2 and 1.

Also given that a < b < c < d.

a	b	C	d	Note
7	53	15	65	c,d are not prime
13	47	21	59	c is not prime
17	43	25	55	c,d are not prime
23	37	31	49	d is not prime
29	31	37	43	Possible

B is the correct answer.

Question 103

Ramsukh bhai sells rasgulla(a favourite Indian sweets) at Rs. 15 per kg. A rasgulla is made up of flour and sugar in the ratio 5 : 3. The ratio of price of sugar and flour is 7 : 3 (per kg). Thus he earns $66\frac{2}{3}$ % profit. What is the cost price of sugar?

- **A** Rs. 10/kg
- **B** Rs. 9/kg
- **C** Rs. 18/kg
- **D** Rs. 14/kg

Answer: D

Explanation:

SP of 1kg rasgulla= Rs.15

CP of 1 kg rasgulla =
$$\binom{13 \frac{1}{500}00}{3}$$
 =

CP of 1 kg of sugar= 7x

CP of 1 kg of floor= 3x

9

$$7x-9 = 3$$

 $9-3x = 3$

x=2

CP of sugar= 7x= 14 per kg

D is the correct answer.

Question 104

A reduction of 20% in the price of sugar enables a person to purchase 6 kg more for Rs. 240. What is the original price per kg of sugar?

- A Rs. 10/kg
- **B** Rs. 8/kg
- C Rs. 6/kg
- D Rs. 5/kg

Answer: A

Explanation:

Let the initial price of 100 kg Sugar was Rs. 100.

Now, a 20% decrease in rate then rate of 100 kg sugar would be Rs. 80.

So, Rs. 80 = 100 kg sugar.

Rs. $100 = 100 \times {}^{100}_{80} = 125 \text{ Kg sugar.}$

Increment in sugar = 25 kg.

% increment = $^{125-100}_{100} \times 100 = 25\%$.

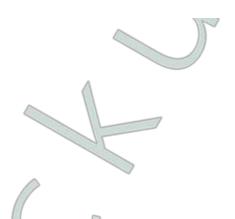
25% increment = 6 kg of sugar

total sugar initially = 6*4 = 24 kg

Original price of the sugar = $\begin{array}{c} 240 \\ 24 \end{array}$

= Rs. 10 per kg

A is the correct answer.



XAT Previous Papers PDF

Question 105

A solid sphere is melted and recast into a right circular cone with a base radius equal to the radius of the sphere. What is the ratio of the height and radius of the cone so formed?

- **A** 4:3
- **B** 2:3
- **C** 3:4
- D None of these

Answer: D

Explanation:

Let the radius of solid sphere be r.

The volume of sphere V_s = ${3 \atop 3}$ πr^3

It is melted and recast into a right circular cone of radius r and height h.

The volume of cone V_c = $\frac{1}{3}$ $\pi r^2 h$

The same volume of material is used for recasting. Therefore,

$$V_s = V_c$$

$${}^{4}_{3} \pi r^{3} = {}^{1}_{3} \pi r^{2} h$$

h = 4r

$$r = 4$$

D is the correct answer.

Question 106

The speed of scooter, car and train are in the ratio of 1 : 4 : 16. If all of them cover equal distance then the ratio of time taken/velocity for each of the vehicle is:

- **A** 256:16:1
- **B** 1:4:16
- C 16:4:1
- **D** 16:1:4

Answer: A

Explanation:

Since distance is constant.

The ratio of speeds of scooter car and train =1:4:16

And therefore, the ratio of time taken = $1 \cdot 4 \cdot 16$

A is the correct answer.

Question 107

B is twice efficient as A and A can do a piece of work in 15 days. A started the work and after a few days B joined him. They completed the work in 11 days, from the starting. For how many days did they work together?

- A 1 day
- B 2 days
- C 6 days
- D 5 days

Answer: B

Explanation:

A can do a piece of work in 15 days.

B is twice as efficient as A.

So B can do the same piece of work in 7.5 days.

Assume the total work to be 15 units

A does 1 unit per day and B does 2 units per day.

For the first \boldsymbol{x} days, A worked alone and hence work done per day is

1 * x = xunits.

For the next (11 - x) days, A and B worked together. In 1 day, they will do (1 + 2) = 3 units

So in 11 - x days, they will do 33 - 3x units.

33 - 3x + x = 15

2x = 18 and x = 9.

Thus A worked alone for 9 days the A and B worked together for 2 days.

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Question 108

A, B, C and D purchased a restaurant for Rs. 56 lakhs. The contribution of B, C and D together is 460% that of A, alone. The contribution of A, C and D together is 366.66% that of B's contribution and the contribution of C is 40% that of A, B and D together. The amount contributed by D is:

- A 10 lakhs
- B 12 lakhs
- C 16 lakhs
- **D** 18 lakhs

Answer: D

Explanation:

$$A+B+C+D = 56 - Eq 1$$

$$B+C+D = 4.6A - Eq 2$$

$$A+C+D = {11B \atop 3} --- Eq 3$$

A+B+D = 2.5C --Eq 4

Using Eq 1 and 2, we get A = 10

Using Eq 1 and 4, we get C = 16

Using Eq 1 and 3, we get B = 12

On substituting the values of A, B, C in Eq 1, we get D = 18

D is the correct answer.

Question 109

The salary of Raju and Ram is 20% and 30% less than the salary of Saroj respectively. By what percent is the salary of Raju more than the salary of Ram?

- **A** 33.33%
- **B** 50%
- C 15.18%
- **D** 14.28%

Answer: D

Explanation:

Let the salary of Saroj be 100x

The salary of Raju = 80x

The salary of Ram = 70x

the percent by which the salary of Raju more than the salary of Ram =

=
$$\overset{1}{7} \times 100$$

=14.28%

D is the correct answer.

Question 110

The radius of a wire is decreased to one - third and its volume remains the same. The new length is how many times the original length?



- B 4 times
- C 5 times
- **D** 9 times

Answer: D

Explanation:

We know that wire is in the shape of a cylinder.

So, the volume of wire = $\pi r^2 h$

$$\pi r^2 h_1 = \pi \binom{r}{3}^2 h_2$$

Cancelling π on both sides,

$$r^2h_1 = {9 \atop 9}^{r_2}h_2$$

 $9h_1 = h_2$

length is increased by 9 times

D is the correct answer.

 \times 100

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General English

Instructions

Read the following passage and answer the questions that follow.

Passage:

D. H. Lawrence - 1885 - 1930: The Supreme Triumph For man, the vast marvel is to be alive. For man as for flower and beast and bird, the supreme triumph is to be most vividly, most perfectly alive. Whatever the unborn and the dead may know, they cannot know the beauty, the marvel of being alive in the flesh. The dead may look after the afterwards. But the magnificent here and now of life in the flesh is ours, and ours alone, and ours only for a time. We ought to dance with rapture, that we should be alive and in the flesh, and part of the living, incarnate cosmos. I am part of the sun as my eye is the part of me. That I am part of the earth my feet below know the perfectly, and my blood is part of the sea. My soul knows that I am a part of the human race, my soul is an inorganic part of the great human soul, as my spirit is a part of my nation. In my own very self, I am part of my family. There is nothing of me that is alone and absolute except my mind, and we shall find that the mind has no existence by itself, it is only the glitter of the sun on the surface of the waters. - Apocalypse, 1931.

Ouestion 111

By triumph the author means-

- A sin
- B loss
- C sorrow
- **D** victory

Answer: D

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Question 112

When the dead look after the afterwards the living should look at life

- A forever
- B for some months
- C for only a short while
- **D** in the past

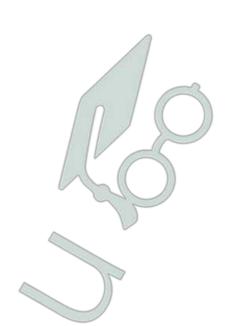
Answer: C

Question 113

By rapture the author means an emotion involving great

- A trepidation
- B thrill
- C fear
- **D** joy

Answer: D



Question 114					
By the last line "It waters", the author means that the mind is only					
A a mirage					
B an illusion					
C magic					
D a reflection					
Answer: D					
Take a CMAT free mock test Question 115					
The tone of this passage is					
A social					
B moral C reflective					
D philosophical					
Answer: D					
Allswell. D					
Question 116					
The most suitable title for this passage would be -					
A The Surface of the Waters					
B My Mind					
C The Human Race					
D Alive and Kicking					
Answer: D					
Instructions For the following questions answer them individually					
Question 117					
Choose the correct option. The repetition of messages or the use of superfluous expressions is called					
The repetition of messages of the use of superfiction of sured					
A redundancy					
B hyperbole					
C alliteration					
D allegory					
Answer: A					

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Question 118

Choose the correct option.

Ink: pen: paper

A watch : dial : strap

B book : paper : words

C farmer: plough: field

D colour : brush : canvas

Answer: D

Question 119

Choose the correct option.

Choose the correct option for realia

- A theoretical constructs
- **B** fabricated examples
- C objects from real life
- **D** based on reality

Answer: C

Question 120

Choose the grammatically correct option from the following

- A 'Are these gloves belonging to you?' she asked.
- **B** 'Does this gloves belong to you?' she asked.
- C 'Do these gloves belongs to you?' she asked.
- **D** 'Do these gloves belong to you?' she asked.

Answer: D

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Question 121

Choose the grammatically correct option from the following

- A I live in a house in a street in the countryside. The street is called "Bear Street" and the house is old more than 100 years old!
- **B** I live in the house in the street countryside. The street is called "Bear Street" and the house is old more than 100 years old!
- C I live in a house in the street in the countryside. The street is called "Bear Street" and the house is old more than 100 years old!
- D I live in a house in a street in the countryside. The street is called "Bear Street" and a house is old more than 100 years old!

Answer: A

Question 122

Choose the grammatically correct option from the following

- A The teachers will be able to visit our schools and compare our teaching methods to their own.
- B The teachers will be able to pay a visit to our schools and compare teaching methods for their own.
- C The teachers will be able to visit our schools and compare our teaching methods with their own.
- D The teachers will be able to visit our school and compare their teaching method with their own.

Answer: C

Question 123

Choose the grammatically correct option from the following

- A Could you give me the amount that you filled out in the check which was sent?
- B Could you give me the amount what you filled out in the check you sent?
- C Could you give me the amount for which you filled out in the check you sent?
- D Could you give me the amount wherein you filled out in the check you sent?

Answer: A

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Question 124

Choose the grammatically correct option from the following

- A I have completed the work yesterday.
- B I did completed the work yesterday
- C I have had completed the work yesterday.
- D I completed the work yesterday.

Answer: D

Question 125

Choose the grammatically correct option from the following

- A The train couldn't stop in time and crashed with the truck.
- B The train couldn't stop in time and crashed into the truck.
- **C** The train couldn't stop in time and crashed against the truck.
- **D** The train couldn't stop in time and crashed before the truck.

Answer: B

Instructions

Choose the correct synonymous word or description for each qouted (" ") word

The Jan Lokpal Bill, also "referred to" (126) as the citizens' ombudsman bill, is a proposed "independent" (127) anti - corruption law in India. Anti - corruption social activists proposed it as a more effective improvement on the original Lokpal Bill, which is currently being proposed by the government of India. The Jan Lokpal Bill aims to effectively "deter" (128) corruption, redress "grievances" (129) of citizens, and protect whistle - blowers. If made into law, the bill would create an independent "ombudsman" (130) body called the Lokpal. It would be empowered to register and investigate complaints of corruption against politicians and bureaucrats without prior government approval. (Source: Wikipedia)

Question 126

Choose the correct option

- A described as
- B included in
- C supported for
- D reformed as

Answer: A



Question 127

Choose the correct option

- A self centered
- **B** impartial
- C self seeking
- D self possessed

Answer: B

Question 128

Choose the correct option-

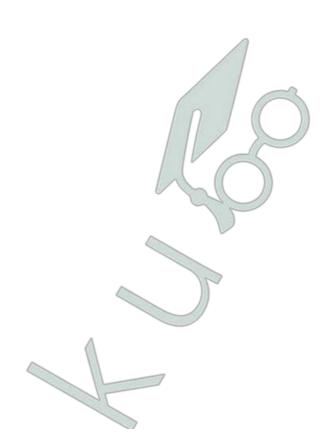
- A swell
- **B** prevent
- **C** propel
- **D** lucubrate

Answer: B

Question 129

Choose the correct option-

- A complaints
- **B** dishonesty
- **C** committees
- **D** opinions



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Question 130

Choose the correct option-

- A a government appointee who investigates complaints by private persons against bureaucrats and/or politicians.
- B a government appointee who investigates complaints by government against common citizens.
- **C** a government appointee who investigates complaints by citizens against citizens.
- D a government appointee who investigates complaints by government against government officials.

Answer: A

Instructions

In the following sentences, one word or a phrase is used wrongly. Choose the word that must be changed or modified or deleted to make the sentence correct. There are sentences without any errors too.

Question 131

The committee came to a decision to discuss in detail about assorted problems that people have been facing for a long time.

- A came to
- B to discuss
- C about
- **D** a long time

Answer: C

Explanation:

Discuss means 'to talk about sth'

Discuss about is a redundant word, hence incorrect.

Question 132

I know you must not see eye to eye with the philosophy of Ramkrishna but you must admit that he had had tremendous influence over a great many followers.

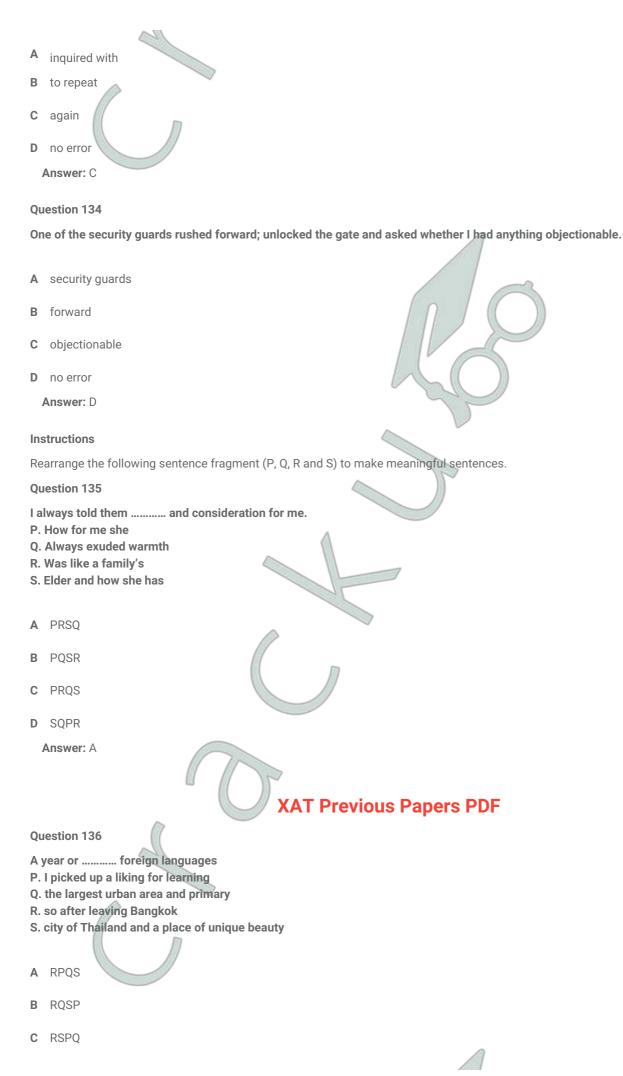
- A see eye to eye
- B had had
- C influence over
- D no error

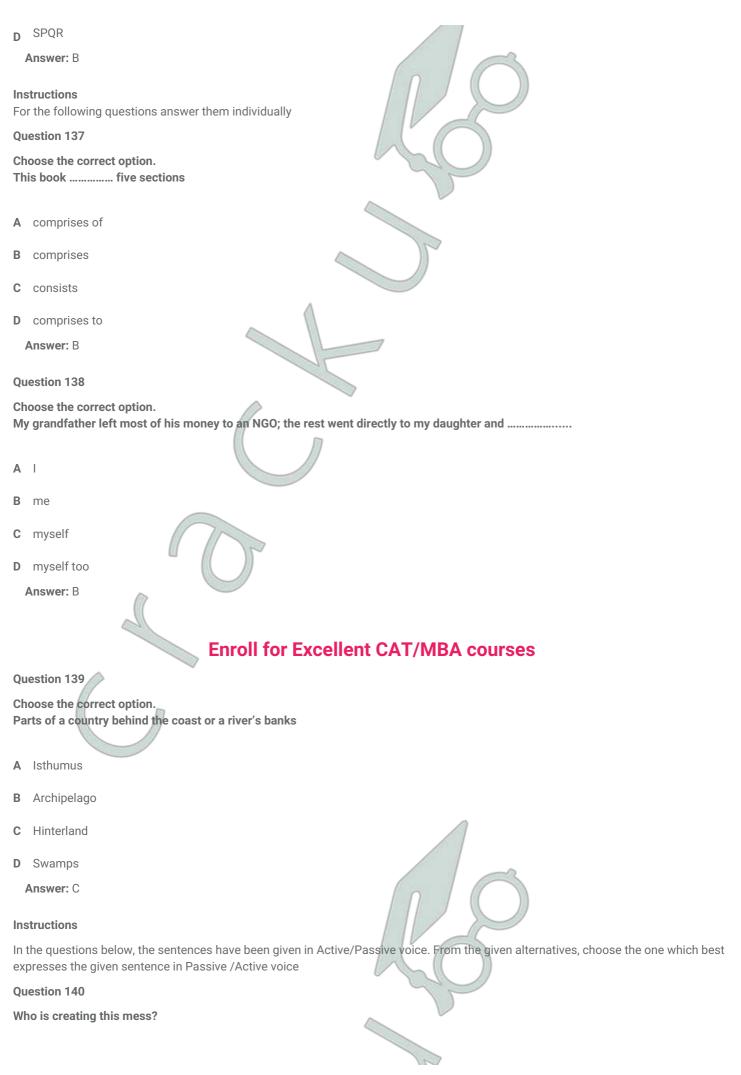
Answer: B

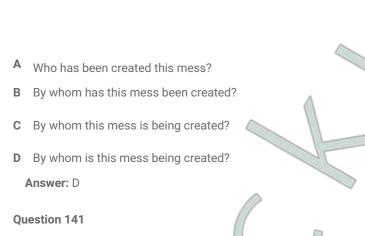
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Question 133

The Principal inquired with the students if they would like their teacher to repeat the lesson again.







You should open the wine about three hours before you use it.

- A Wine should be opened about three hours before use.
- B Wine should be opened by you three hours before use.
- C Wine should be opened about three hours before you use it.
- **D** Wine should be opened about three hours before it is used.

Answer: D

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Instructions

For the following questions answer them individually

Question 142

In the questions below, the passage consist of six sentences. The first and the sixth sentences are given. (S1, S6) The middle four sentences in each have been removed and jumbled up. These are labeled as P, Q, R and S. Find out the proper order for the four sentences.

- S1: Metals are today being replaced by polymers in many applications.
- P: Above all, they are cheaper and easier to process making them a viable alternative to metals.
- Q: Polymers are essentially a long chains of hydrocarbons molecules.
- R: Today polymers as strong as metals have been developed.
- S: These have replaced the traditional chromium plated metallic bumpers in cars.
- S6: Many Indian Institutes of Science and Technology run special programmes on polymer science.

The proper sequence should be:

- A QRSP
- **B** RSQP
- C RQSP
- **D** QRPS

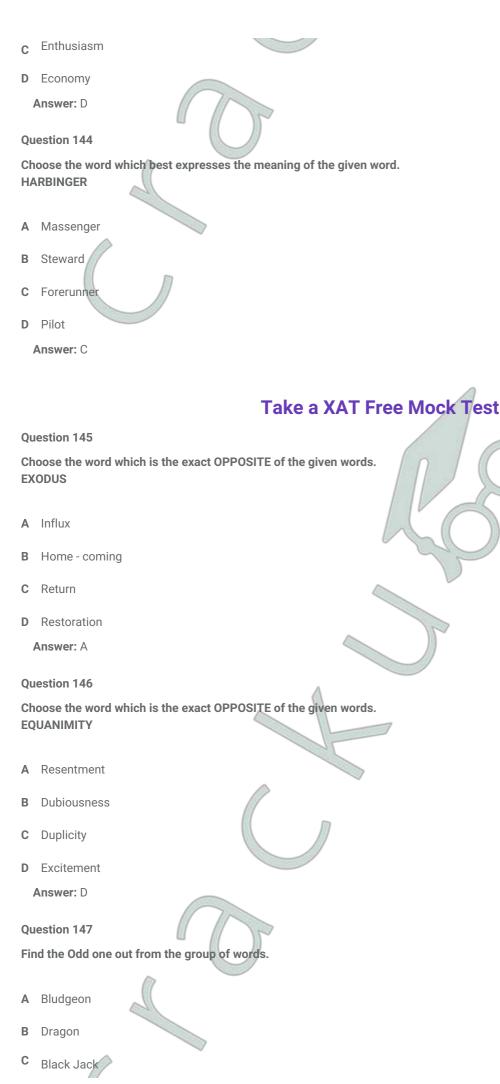
Answer: A

Question 143

Choose the word which best expresses the meaning of the given word.

FRUGALITY

- A Foolishness
- **B** Extremity



D	Order		
	Answer:	D	

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Question 148

Each pair of capitalized words given is followed by four pair of words. Select the pair that DOES NOT expresses a relationship similar to that expressed by the capitalized pair.

KERNAL: SHELL

A Caterpillar : Pupa

B Larva: Cacoon

C Lassitude: Syncope

D Passenger: Car

Answer: D

Question 149

Both of them since their childhood.

A are working here

B work here

C have been working

D are liking to work

Answer: C

Question 150

Although initial investigations pointed towards him

- A the preceding events corroborated his involvement in the crime.
- B The additional information confirmed his guilt
- C the subsequent events established that he was guilty
- D the subsequent events proved that he was innocent

Answer: D

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