Q.1
"Swayamsidha" is a scheme launched by the Government of India to help

SNAP-2011

(a) School Children only
(b) Health workers only
(c) Senior citizen without any regular income
(d) Women only
Sol:
Ans: d
@MarkingFactors: 3 1
@SubjectId: 0
@TopicId: 0
@SubTopicId: 0
@Instruction: For the following questions answer them individually
Q.2
What is 'Share swap'?

SNAP-2011

(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
Sol:
Ans: a
@MarkingFactors: 3 1
@SubjectId: 0
@TopicId: 0
@SubTopicId: 0
@Instruction: For the following questions answer them individually
Q.3
Regarding "carbon credits" which of the following statements is not correct?

SNAP-2011

(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
Sol:
Ans: d
@MarkingFactors: 3 1
@SubjectId: 0
@TopicId: 0

@SubTopicId: 0
@Instruction: For the following questions answer them individually
Q.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?

SNAP-2011

(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
Sol :
Ans: b
@MarkingFactors: 3 1
@SubjectId: 0
@TopicId: 0
@SubTopicId: 0
@Instruction: For the following questions answer them individually
Q.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?

SNAP-2011

(a) 2 only
(b) 1 and 2 only
(c) 1 and 3 only
(d) 1, 2 and 3
Sol :
Ans: b
@MarkingFactors: 3 1
@SubjectId: 0
@TopicId: 0
@SubTopicId: 0
@Instruction: For the following questions answer them individually
Q.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?

SNAP-2011

(a) 1 only
(b) 1 and 3 only
(c) 3 only

(d) 1, 2 and 3

Sol :

Ans: b

@MarkingFactors: 3 1

@SubjectId: 0

@TopicId: 0

@SubTopicId: 0

@Instruction: For the following questions answer them individually

Q.7

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

<div align="right">SNAP-2011</div>

(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.

Sol :

Ans: a

@MarkingFactors: 3 1

@SubjectId: 0

@TopicId: 0

@SubTopicId: 0

@Instruction: For the following questions answer them individually

Q.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?

<div align="right">SNAP-2011</div>

(a) 1 only

(b) 2 only

(c) Both 1 and 2

(d) Neither 1 nor 2

Sol :

Ans: a

@MarkingFactors: 3 1

@SubjectId: 0

@TopicId: 0

@SubTopicId: 0

@Instruction: For the following questions answer them individually

Q.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?

<div align="right">SNAP-2011</div>

(a) 1 only
(b) 2 only
(c) Both 1 and 2
(d) Neither 1 nor 2
Sol:
Ans: a
@MarkingFactors: 3 1
@SubjectId: 0
@TopicId: 0
@SubTopicId: 0
@Instruction: For the following questions answer them individually
Q.10
The book "Unto this Last" which influenced Gandhiji, was authored by

(a) Boris Yeltsin
(b) Pushkin
(c) Ruskin Bond
(d) John Ruskin
Sol:
Ans: d
@MarkingFactors: 3 1
@SubjectId: 0
@TopicId: 0
@SubTopicId: 0
@Instruction: For the following questions answer them individually
Q.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
(d) Australia
Sol:
Ans: c
@MarkingFactors: 3 1
@SubjectId: 0
@TopicId: 0
@SubTopicId: 0
@Instruction: For the following questions answer them individually
Q.12
Which of the following country is not a member of the Nuclear Suppliers Group (NSG)?

(a) Russia
(b) USA
(c) Italy
(d) Irans
Sol:

Ans: d
@MarkingFactors: 3 1
@SubjectId: 0
@TopicId: 0
@SubTopicId: 0
@Instruction: For the following questions answer them individually
Q.13
Many times we read in the newspaper that several companies are adopting the FCCBs route to raise capital. What is the full form of FCCB?

SNAP-2011

(a) Foreign Currency Convertible Bonds
(b) Foreign Convertible Credit Bonds
(c) Financial Consortium and Credit Bureau
(d) None of these
Sol:
Ans: a
@MarkingFactors: 3 1
@SubjectId: 0
@TopicId: 0
@SubTopicId: 0
@Instruction: For the following questions answer them individually
Q.14
As per the reports published in various newspapers, RBI has asked banks to make plan to provide banking services in villages having population of 2000. This directive issued by the RBI will fall in which of the following categories?

SNAP-2011

(a) Plan for financial inclusion
(b) Efforts to meet Priority sector lending
(c) Extension of Internet and Branchless banking
(d) None of these
Sol:
Ans: a
@MarkingFactors: 3 1
@SubjectId: 0
@TopicId: 0
@SubTopicId: 0
@Instruction: For the following questions answer them individually
Q.15
Which of the following is/ are treated as artificial currency?

SNAP-2011

(a) ADR
(b) GDR
(c) Both GDR and ADR
(d) SDR
Sol:
Ans: d
@MarkingFactors: 3 1
@SubjectId: 0
@TopicId: 0

@SubTopicId: 0
@Instruction: For the following questions answer them individually
Q.16
Which of the following terms indicates a mechanisms used by commercial banks to provide credit to the Government?

SNAP-2011

(a) Cash Credit Ratio
(b) Debit Service Obligation
(c) Liquidity Adjustment Facility
(d) Statutory Liquidity Ratio
Sol:
Ans: d
@MarkingFactors: 3 1
@SubjectId: 0
@TopicId: 0
@SubTopicId: 0
@Instruction: For the following questions answer them individually
Q.17
Who among the following was not part of the drafting committee of the Lokpal Bill?

SNAP-2011

(a) Salman Khurshid
(b) Anna Hazare
(c) Arvind Kejriwal
(d) Kiran Bedi
Sol:
Ans: d
@MarkingFactors: 3 1
@SubjectId: 0
@TopicId: 0
@SubTopicId: 0
@Instruction: For the following questions answer them individually
Q.18
Criminal procedure is a subject of which of the following lists?

SNAP-2011

(a) State List
(b) Concurrent List
(c) Union List
(d) Both 1 and 3
Sol:
Ans: b
@MarkingFactors: 3 1
@SubjectId: 0
@TopicId: 0
@SubTopicId: 0
@Instruction: For the following questions answer them individually
Q.19
One of the world's biggest Uranium resources was recently found in

SNAP-2011

(a) Andhra Pradesh

(b) Maharashtra
(c) Jharkhand
(d) Uttarakhand
Sol:
Ans: a
@MarkingFactors: 3 1
@SubjectId: 0
@TopicId: 0
@SubTopicId: 0
@Instruction: For the following questions answer them individually
Q.20
Which of the following was the first venture of Kishore Biyani

SNAP-2011

(a) Pantaloons
(b) Big Bazaar
(c) Central
(d) Future Capital Holdings
Sol:
Ans: a
@MarkingFactors: 3 1
@SubjectId: 0
@TopicId: 0
@SubTopicId: 0
@Instruction: For the following questions answer them individually
Q.21
Who among the following is often referred to as father of India's "Green Revolution"?

SNAP-2011

(a) Dr. Verghese Kurien
(b) Dr. Amrita Patel
(c) M. S. Swaminathan
(d) Gurudev Khush
Sol:
Ans: c
@MarkingFactors: 3 1
@SubjectId: 0
@TopicId: 0
@SubTopicId: 0
@Instruction: For the following questions answer them individually
Q.22
Who among the following directed the movie Peepli Live?

SNAP-2011

(a) Ashutosh Gowarikar
(b) Kiran Rao
(c) Anusha Rizvi
(d) Seema Chisti
Sol:
Ans: c
@MarkingFactors: 3 1
@SubjectId: 0

@TopicId: 0
@SubTopicId: 0
@Instruction: For the following questions answer them individually
Q.23
The point at which soild, liquid and gaseous forms of a substance co - exist is called

SNAP-2011

(a) sublimation
(b) distillation point
(c) triple point
(d) melting point
Sol:
Ans: c
@MarkingFactors: 3 1
@SubjectId: 0
@TopicId: 0
@SubTopicId: 0
@Instruction: For the following questions answer them individually
Q.24
The limit beyond which the stars suffer internal collapse is called the

SNAP-2011

(a) Raman Effect
(b) Chandrashekhar limit
(c) Aurora Borealis
(d) Quasan Zone
Sol:
Ans: b
@MarkingFactors: 3 1
@SubjectId: 0
@TopicId: 0
@SubTopicId: 0
@Instruction: For the following questions answer them individually
Q.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?

SNAP-2011

(a) Health
(b) Education
(c) Living Standards
(d) Human Rights
Sol:
Ans: d
@MarkingFactors: 3 1
@SubjectId: 0
@TopicId: 0
@SubTopicId: 0
@Instruction: For the following questions answer them individually
Q.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
Sol:
Ans: a
@MarkingFactors: 3 1
@SubjectId: 0
@TopicId: 0
@SubTopicId: 0
@Instruction: For the following questions answer them individually
Q.27
Which of the following is not a member of SAARC?

(a) Bhutan
(b) Bangladesh
(c) Burma
(d) Maldives
Ans: c
@MarkingFactors: 3 1
@SubjectId: 0
@TopicId: 0
@SubTopicId: 0
@Instruction: For the following questions answer them individually
Q.28
Which article of the Indian constitution recognizes Hindi in Devanagari Script as the official language of India?

(a) Art 345
(b) Art 343
(c) Art 348
(d) Art 334
Sol:
Ans: b
@MarkingFactors: 3 1
@SubjectId: 0
@TopicId: 0
@SubTopicId: 0
@Instruction: For the following questions answer them individually
Q.29
India has finally woken up to the needs of the country's elderly. With the number of people in the 60 - plus age group in India expected to increase to 100 million in 2013 and to 198 million in 2030, the health ministry is all set to roll out the

(a) National Programme for Health care of the Elderly
(b) National Programme for Senior Citizens
(c) National Programme for Old Aged
(d) Rashtriya Vriddha Swasthya Yojana

Sol:
Ans: a
@MarkingFactors: 3 1
@SubjectId: 0
@TopicId: 0
@SubTopicId: 0
@Instruction: For the following questions answer them individually
Q.30
Which of the following statements is/are correct?
1. Non - resident Indians (NRIs) can now cast votes in their home constituencies in India.
2. The NRI can cast his vote by postal balloting.

SNAP-2011

(a) 1 only
(b) 2 only
(c) Both 1 and 2
(d) Neither 1 nor 2
Sol:
Ans: a
@MarkingFactors: 3 1
@SubjectId: 0
@TopicId: 0
@SubTopicId: 0
@Instruction: For the following questions answer them individually
Q.31
In a landmark move, which of these State governments has set up a Savarna Aayog, a commission to identify the deprived and underprivileged families among upper castes?

SNAP-2011

(a) Uttar Pradesh
(b) Bihar
(c) Madhya Pradesh
(d) Rajasthan
Sol :
Ans: b
@MarkingFactors: 3 1
@SubjectId: 0
@TopicId: 0
@SubTopicId: 0
@Instruction: For the following questions answer them individually
Q.32
Which of these countries has announced one billion US dollar aid for the reconstruction of Nalanda University?

SNAP-2011

(a) Japan
(b) Singapore
(c) Malaysia
(d) China
Sol:
Ans: d
@MarkingFactors: 3 1

@SubjectId: 0

@TopicId: 0

@SubTopicId: 0

@Instruction: For the following questions answer them individually

Q.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?

SNAP-2011

(a) Rail Vishwa

(b) Rail Bandhu

(c) Rail Mail

(d) Rail Patra

Sol:

Ans: b

@MarkingFactors: 3 1

@SubjectId: 0

@TopicId: 0

@SubTopicId: 0

@Instruction: For the following questions answer them individually

Q.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 –

SNAP-2011

(a) Nandan Nilekani

(b) Apoorva Sinha

(c) Sangam Chitra

(d) All of these

Sol:

Ans: a

@MarkingFactors: 3 1

@SubjectId: 0

@TopicId: 0

@SubTopicId: 0

@Instruction: For the following questions answer them individually

Q.35

Which of these countries has been added in the 'BRIC' (Brazil - Russia - India - China) groupin of emerging economies?

SNAP-2011

(a) South Korea

(b) Venezuela

(c) South Africa

(d) Malaysia

Sol:

Ans: c

@MarkingFactors: 3 1

@SubjectId: 0

@TopicId: 0

@SubTopicId: 0

@Instruction: For the following questions answer them individually

Q.36

Which of the following countries was the host of First Asian Yoga Championship held recently?

SNAP-2011

(a) Thailand
(b) Cambodia
(c) Vietnam
(d) Laos

Sol:

Ans: a

@MarkingFactors: 3 1

@SubjectId: 0

@TopicId: 0

@SubTopicId: 0

@Instruction: For the following questions answer them individually

Q.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?

SNAP-2011

(a) Ji Hyun Sung
(b) Wang Lin
(c) Kamilla Rytter Juhl
(d) Shinta Mulia Sari

Sol:

Ans: a

@MarkingFactors: 3 1

@SubjectId: 0

@TopicId: 0

@SubTopicId: 0

@Instruction: For the following questions answer them individually

Q.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?

SNAP-2011

(a) President
(b) Prime Minister
(c) Supreme Court
(d) Parliament

Sol:

Ans: d

@MarkingFactors: 3 1

@SubjectId: 0

@TopicId: 0

@SubTopicId: 0

@Instruction: For the following questions answer them individually

Q.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

(a) Thailand
(b) Singapore
(c) Malaysia
(d) Indonesia
Sol:
Ans: b
@MarkingFactors: 3 1
@SubjectId: 0
@TopicId: 0
@SubTopicId: 0
@Instruction: For the following questions answer them individually
Q.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
Sol:
Ans: d
@MarkingFactors: 3 1
@SubjectId: 0
@TopicId: 0
@SubTopicId: 0
@Instruction: For the following questions answer them individually
Q.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
Sol:
Ans: c
@MarkingFactors: 3 1
@SubjectId: 0
@TopicId: 0
@SubTopicId: 0
@Instruction: 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:

Q.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)

Sol:

Ans: c

@MarkingFactors: 3 1

@SubjectId: 0

@TopicId: 0

@SubTopicId: 0

@Instruction: 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:

Q.43

Who always speaks the truth?
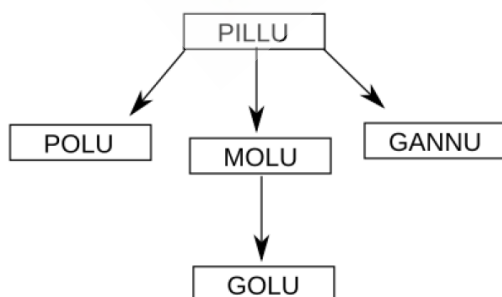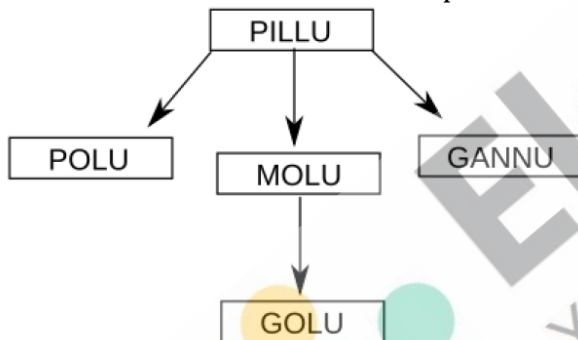
(a) A

(b) B

(c) C

(d) D

Sol:

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 D

Ans: d

@MarkingFactors: 3 1
@SubjectId: 0
@TopicId: 0
@SubTopicId: 0
@Instruction: 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
Q.44
How is B related to C?

(a) Father
(b) Mother
(c) Wife
(d) Husband
Sol:
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.

Ans: c
@MarkingFactors: 3 1
@SubjectId: 0
@TopicId: 0
@SubTopicId: 0
@Instruction: 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
Q.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.

Sol:

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.
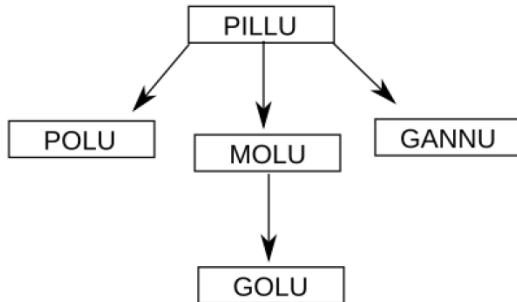
Both the statements of B are false.

Option D

Ans: d

@MarkingFactors: 3 1

@SubjectId: 0

@TopicId: 0

@SubTopicId: 0

@Instruction: 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
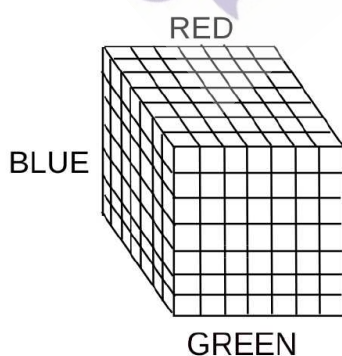
Q.46

How many smaller cubes do not have any face painted?

SNAP-2011

(a) 125

(b) 180

(c) 144

(d) 216

Sol:

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
Ans: d
@MarkingFactors: 3 1
@SubjectId: 0
@TopicId: 0
@SubTopicId: 0
@Instruction: 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.
Q.47
How many smaller cubes have exactly one colour on them?
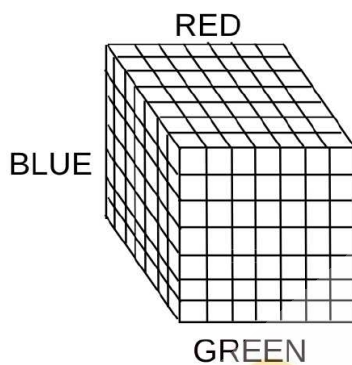
SNAP-2011

(a) 108
(b) 72
(c) 36
(d) 24
Sol:
Ans: a

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
@MarkingFactors: 3 1
@SubjectId: 0
@TopicId: 0
@SubTopicId: 0
@Instruction: 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.
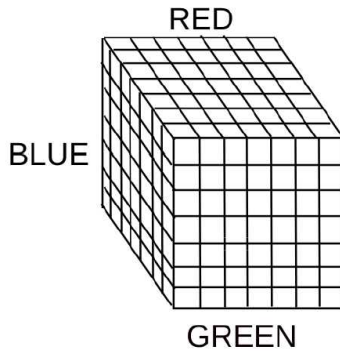Q.48
How many smaller cubes have at the most two faces painted?

SNAP-2011

(a) 343
(b) 342
(c) 256
(d) 282
Sol:

RED

BLUE

GREEN

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
Ans: b
@MarkingFactors: 3 1
@SubjectId: 0
@TopicId: 0
@SubTopicId: 0
@Instruction: 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.
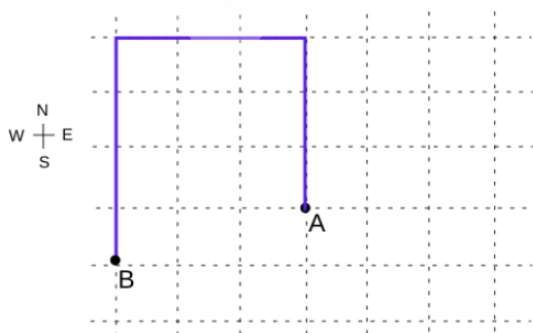Q.49
Amit started at the intersection of streets no. 7 and 8. He drove 3 km north, 3 km west and 4 km south. Which further route could bring him back to his starting point?
I. 3 km east, then 2 km south
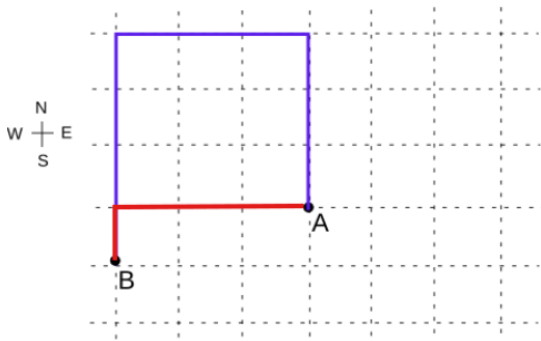II. 1 km north, then 3 km east
III. 1 km north, then 2 km west

SNAP-2011

(a) I only
(b) II only
(c) I and II only
(d) II and III only
Sol:

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

Ans: b

@MarkingFactors: 3 1

@SubjectId: 0

@TopicId: 0

@SubTopicId: 0

@Instruction: 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.

Q.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?
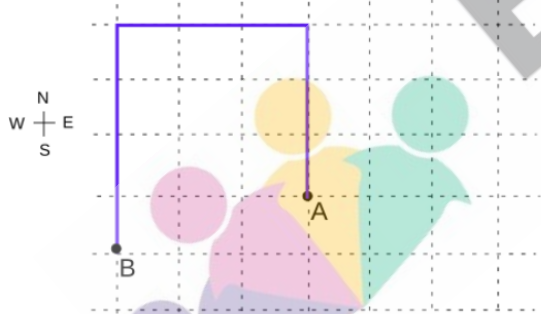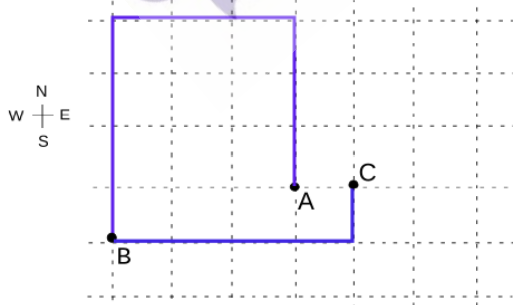
SNAP-2011

(a) 5 km

(b) 4 km

(c) 1 km

(d) 7 km

Sol :

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.

Ans : c

@MarkingFactors: 3 1
@SubjectId: 0
@TopicId: 0
@SubTopicId: 0
@Instruction: 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.
Q.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
Sol:
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
Ans: c
@MarkingFactors: 3 1
@SubjectId: 0
@TopicId: 0
@SubTopicId: 0
@Instruction: 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.
Q.52
In the above question (51), what is the final value of X?

(a) 6
(b) 20
(c) 72
(d) 360
Sol:
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
Ans: d
@MarkingFactors: 3 1
@SubjectId: 0
@TopicId: 0
@SubTopicId: 0
@Instruction: 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.
Q.53
In the above question (51), what is the final value of Y?

(a) 4
(b) 5
(c) 6
(d) 20
Sol:
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.
Ans: c
@MarkingFactors: 3 1
@SubjectId: 0
@TopicId: 0
@SubTopicId: 0
@Instruction: 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.
Q.54
If the value of N is changed to 500, what would be the final value of X?

(a) 360
(b) 500
(c) 560
(d) 2160
Sol:
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
Step 5. X=2160 Y=7
Hence Option D is correct.
Ans: d
@MarkingFactors: 3 1
@SubjectId: 0
@TopicId: 0
@SubTopicId: 0
@Instruction: 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.
Q.55
If X = 2 and Y = 3, what should be the minimum value of N such that final value of Y is 7?

(a) 300
(b) 360
(c) 720
(d) 860
Sol:
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.
Ans: a
@MarkingFactors: 3 1
@SubjectId: 0
@TopicId: 0
@SubTopicId: 0
@Instruction: 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.
Q.56
If Sunil is ranked sixth and Ankit is ranked fifth, which of the following can be true?

(a) Vicky is ranked first or fourth
(b) Raman is ranked second or third
(c) Tony is ranked fourth or fifth
(d) Deepak is ranked third or fourth
Sol:
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.
Ans: d
@MarkingFactors: 3 1
@SubjectId: 0
@TopicId: 0
@SubTopicId: 0
@Instruction: 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.
Q.57
If Raman gets the highest, Vicky should be ranked not lower than:

(a) Second
(b) Third
(c) Fourth
(d) Fifth

Sol:

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

Ans: c

@MarkingFactors: 3 1

@SubjectId: 0

@TopicId: 0

@SubTopicId: 0

@Instruction: 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.

Q.58

If Raman is ranked second and Ankit is ranked first, which of the following must be true?

SNAP-2011

(a) Sunil is ranked third

(b) Tony is ranked third

(c) Priya is ranked sixth

(d) None of these.

Sol:

Priya always scores more than Ankit......Hence there is a logical error.

Option D

Ans: d

@MarkingFactors: 3 1

@SubjectId: 0

@TopicId: 0

@SubTopicId: 0

@Instruction: 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.

Q.59

If Sunil is ranked second, which of the following can be true?

SNAP-2011

(a) Deepak gets more than Vicky

(b) Vicky gets more than Sunil

(c) Priya gets more than Raman

(d) Priya gets more than Vicky

Sol:

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.
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.
Ans: a
@MarkingFactors: 3 1
@SubjectId: 0
@TopicId: 0
@SubTopicId: 0
@Instruction: 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.
Q.60
If Vicky is ranked fifth, which of the following must be true?

SNAP-2011

(a) Sunil scores the highest
(b) Raman is ranked second
(c) Tony is ranked third
(d) Ankit is ranked second
Sol:
Vicky ranked fifth then Priya and Ankit should be sixth and seventh respectively.
Sunil scores the highest and Deepak or Ankit scores the least.
Thus Sunil will score the highest.
Option A
Ans: a
@MarkingFactors: 3 1
@SubjectId: 0
@TopicId: 0
@SubTopicId: 0
@Instruction: 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.
Q.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.

Sol:

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 election.

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.

Ans: c

@MarkingFactors: 3 1

@SubjectId: 0

@TopicId: 0

@SubTopicId: 0

@Instruction: For the following questions answer them individually

Q.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?

SNAP-2011

(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.

Sol:

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.

Ans: d

@MarkingFactors: 3 1

@SubjectId: 0

@TopicId: 0
@SubTopicId: 0
@Instruction: For the following questions answer them individually
Q.63
Pick up the appropriate analogy.
Birth : Dirge

(a) Sunset : sunrise

(b) security check : arrival

(c) marriage : alimony

(d) welcome address : vote of thanks

Sol:

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

Ans: c

@MarkingFactors: 3 1

@SubjectId: 0

@TopicId: 0

@SubTopicId: 0

@Instruction: For the following questions answer them individually

Q.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.

(b) 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.

(c) 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.

Sol:

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.

Ans: d

@MarkingFactors: 3 1

@SubjectId: 0

@TopicId: 0

@SubTopicId: 0

@Instruction: For the following questions answer them individually

Q.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

SNAP-2011

(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

Sol:

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
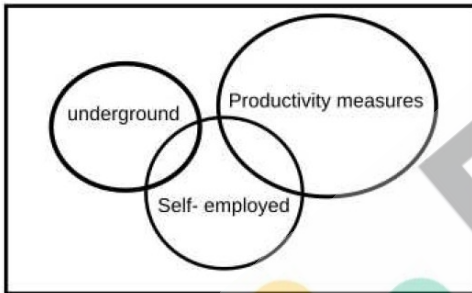
Only Option D is correct.

Ans: d

@MarkingFactors: 3 1

@SubjectId: 0

@TopicId: 0

@SubTopicId: 0

@Instruction: For the following questions answer them individually

Q.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?

SNAP-2011

(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

Sol:

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.

Ans: c

@MarkingFactors: 3 1

@SubjectId: 0

@TopicId: 0

@SubTopicId: 0

@Instruction: For the following questions answer them individually

Q.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:

<div align="right">SNAP-2011</div>

(a) an appeal to emotion.
(b) a flawed analogy.
(c) a general conclusion based on a specific example.
(d) circular reasoning.

Sol:

Ans: c

@MarkingFactors: 3 1

@SubjectId: 0

@TopicId: 0

@SubTopicId: 0

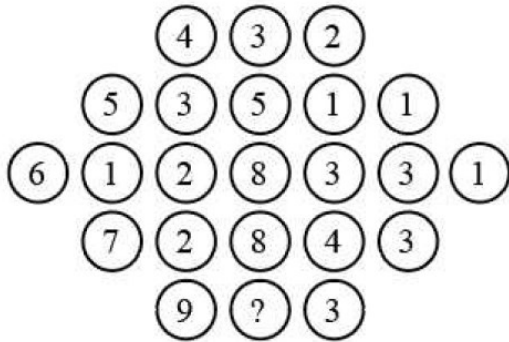@Instruction: For the following questions answer them individually

Q.68

What number should replace the question mark?

<div align="right">SNAP-2011</div>

(a) 1
(b) 4
(c) 12
(d) 6

Sol:

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
Ans: d
@MarkingFactors: 3 1
@SubjectId: 0
@TopicId: 0
@SubTopicId: 0
@Instruction: For the following questions answer them individually
Q.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?

SNAP-2011

(a) Some lawyers who now advertise will charge more for specific services if they do not have to specify fee arrangements in the advertisements.
(b) 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.
(d) 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.
Sol:
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.

Ans: c

@MarkingFactors: 3 1

@SubjectId: 0

@TopicId: 0

@SubTopicId: 0

@Instruction: For the following questions answer them individually

Q.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?

SNAP-2011

(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.

Sol:

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.

Ans: d

@MarkingFactors: 3 1

@SubjectId: 0

@TopicId: 0

@SubTopicId: 0

@Instruction: For the following questions answer them individually

Quantitative Aptitude

Q.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?

SNAP-2011

(a) 240 meters

(b) 100 meters

(c) 200 meters

(d) 300 meters

Sol:

Speed of the Train = 36 km/hr.

= 36 × 5/18 [Changing into m/s]

= 2 × 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

∴ Length of the Train = Speed of the Train × Time to cross the Man.

= 10 × 10

= 100 m.

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

= 10 × 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.

Ans: b

@MarkingFactors: 3 1

@SubjectId: 0

@TopicId: 0
@SubTopicId: 0
@Instruction: For the following questions answer them individually
Q.72

By walking at $\frac{4}{5}$th of his usual speed, a man reaches office 10 minutes later than usual.

What is his usual time?

<div align="right">**SNAP-2011**</div>

(a) 20 min
(b) 40 min
(c) 30 min
(d) 50 min

Sol:

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 = $\frac{5}{4}$ 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.

Ans: b

@MarkingFactors: 3 1
@SubjectId: 0
@TopicId: 0
@SubTopicId: 0
@Instruction: For the following questions answer them individually.
Q.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?

<div align="right">**SNAP-2011**</div>

(a) 27
(b) 36
(c) 45
(d) None of these

Sol:

Time taken to meet = $\frac{\text{Distance between them}}{\text{Relative speed}}$

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

Time take to cover 81 miles = $\frac{81}{9}$ = 9 hours.

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

Ans: b

@MarkingFactors: 3 1
@SubjectId: 0

@TopicId: 0

@SubTopicId: 0

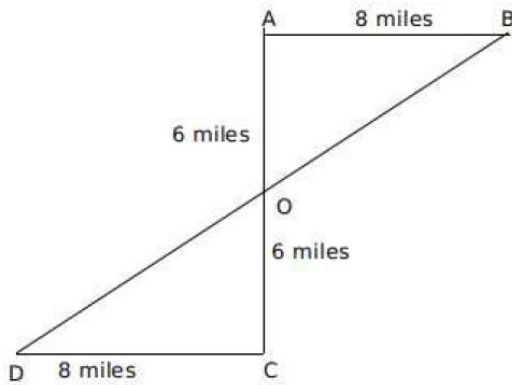@Instruction: For the following questions answer them individually

Q.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?

SNAP-2011

(a) 14 miles and 14 miles

(b) 10 miles and 10 miles

(c) 6 miles and 6 miles

(d) 12 miles and 12 miles

Sol:

1 person:

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

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

$\sqrt{(100)} = OB$

$10 = OB....$

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.

Ans: b

@MarkingFactors: 3 1

@SubjectId: 0

@TopicId: 0

@SubTopicId: 0

@Instruction: For the following questions answer them individually

Q.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?

SNAP-2011

(a) 18

(b) 10

(c) 8.3

(d) 12

Sol:

(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.

Ans: c

@MarkingFactors: 3 1

@SubjectId: 0

@TopicId: 0

@SubTopicId: 0

@Instruction: For the following questions answer them individually

Q.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?

SNAP-2011

(a) $\dfrac{121}{3}$ (b) $\dfrac{51}{7}$ (c) $\dfrac{40}{7}$ (d) $\dfrac{65}{7}$

Sol :

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.

$$= \frac{10x}{x+0.5x+0.25x}$$
$$= \frac{10}{1.75}$$
$$= \frac{1000}{175}$$
$$= \frac{40}{7}$$

C is the correct answer.

Ans : c

@MarkingFactors: 3 1

@SubjectId: 0

@TopicId: 0

@SubTopicId: 0

@Instruction: For the following questions answer them individually

Q.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?

SNAP-2011

(a) 5

(b) 7

(c) 8

(d) 6

Sol:

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

Amount of work done by A on 1 day = $= \frac{168}{21} = 8$ units

Amount of work done by B on 1 day = $= \frac{168}{24} = 7$ 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.

Ans:b

@MarkingFactors: 3 1

@SubjectId: 0

@TopicId: 0

@SubTopicId: 0

@Instruction: For the following questions answer them individually

Q.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?

SNAP-2011

(a) 33.33%

(b) 75%

(c) 300%

(d) 150%

Sol:

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

100(SP-CP) = 75*SP

4(SP-CP) = 3SP

SP = 4CP

$$\text{Profit} = \frac{SP - CP}{CP} \times 100$$

$$= \frac{4CP - CP}{CP} \times 100$$

= 300%

C is the correct answer.

Ans: c

@MarkingFactors: 3 1

@SubjectId: 0

@TopicId: 0

@SubTopicId: 0

@Instruction: For the following questions answer them individually

Q.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?

SNAP-2011

(a) 10 seconds
(b) 20 seconds
(c) 30 seconds
(d) 40 seconds

Sol:

Ans: c

Let us consider A covers 100 m in t sec.

Speed of A $= \dfrac{100}{t}$

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

Speed of B $= \dfrac{80}{t+5}$

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

$= \dfrac{100}{\dfrac{100}{t}} = \dfrac{60}{\dfrac{80}{t+5}}$

n solving for t, we get

t = 15 sec

Speed of A $= \dfrac{100}{15}\, m/\sec$

Time taken by A to cover 200m(x) =

$200 = \text{time} * \dfrac{100}{15}$

X = 30 sec

C is the correct answer.

Ans: c

@MarkingFactors: 3 1

@SubjectId: 0

@TopicId: 0

@SubTopicId: 0

@Instruction: For the following questions answer them individually

Q.80

A 4 cm cube is cut into 1cm cubes. What is the percentage increase in the surface area after such cutting?

SNAP-2011

(a) 4%
(b) 300%
(c) 75%
(d) 400%

Sol:

Initial surface area of the cube = 6(side)^2

=6(4)^2

=96cm^2

No. of New cubes = $\dfrac{\text{Volume of older cube}}{\text{Volume of 1 new cube}}$

$= \dfrac{4 \times 4 \times 4}{1 \times 1 \times 1}$

= 64 cubes

Ans: b

@MarkingFactors: 3 1

@SubjectId: 0

@TopicId: 0

@SubTopicId: 0

@Instruction: For the following questions answer them individually

Q.81

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

(a) 8

(b) 6

(c) 1

(d) More than one values are possible.

Sol:

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.

Ans: a

@MarkingFactors: 3 1

@SubjectId: 0

@TopicId: 0

@SubTopicId: 0

@Instruction: For the following questions answer them individually

Q.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) $\dfrac{3}{20}$ (b) $\dfrac{3}{5}$ (c) $\dfrac{2}{5}$ (d) $\dfrac{2}{20}$

Sol:

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

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

Amount of work done by Sagar on one day = $\dfrac{60}{15}$ = 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 = $\dfrac{24}{60}$

$= \dfrac{2}{5}$

C is the correct answer.
Ans: c
@MarkingFactors: 3 1
@SubjectId: 0
@TopicId: 0
@SubTopicId: 0
@Instruction: For the following questions answer them individually
Q.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?
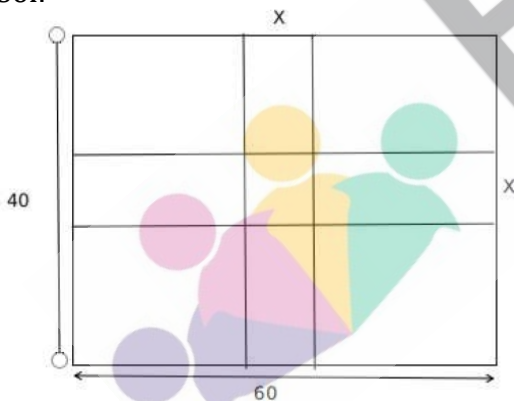
SNAP-2011

(a) 2.91 m
(b) 3 m
(c) 5.82 m
(d) None of these
Sol:

Area of the park = (60 x 40) m² = 2400 m².
Area of the lawn = 2109 m².
Area of the crossroads = (2400 - 2109) m² = 291 m² .
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
Ans: b
@MarkingFactors: 3 1

@SubjectId: 0

@TopicId: 0

@SubTopicId: 0

@Instruction: For the following questions answer them individually

Q.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.

SNAP-2011

(a) $\dfrac{275}{504}$ (b) $\dfrac{5}{18}$ (c) $\dfrac{5}{9}$ (d) None of these

Sol:

Let $P(B_1)$ and $P(B_2)$ 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, $P(B_1) = P(B_2) = \dfrac{1}{2}$

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

$$= P(B_1)P\left(\frac{E}{B_1}\right) + P(B_2)P\left(\frac{E}{B_2}\right)$$

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

$$= \frac{1}{2}\left[\frac{^5C_1 \times\, ^3C_1}{^8C_2} + \frac{^5C_1 \times\, ^1C_1}{^9C_2}\right]$$

$$= \frac{1}{2}\left[\frac{15}{28} + \frac{5}{9}\right]$$

$$= \frac{275}{504}$$

A is the correct answer.

Ans: a

@MarkingFactors: 3 1

@SubjectId: 0

@TopicId: 0

@SubTopicId: 0

@Instruction: For the following questions answer them individually

Q.85

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

SNAP-2011

(a) 2007

(b) 2008

(c) 2009

(d) 2010

Sol:

Year	Consumption of rice	% increase wrt previous year
2006	72.5	-
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.
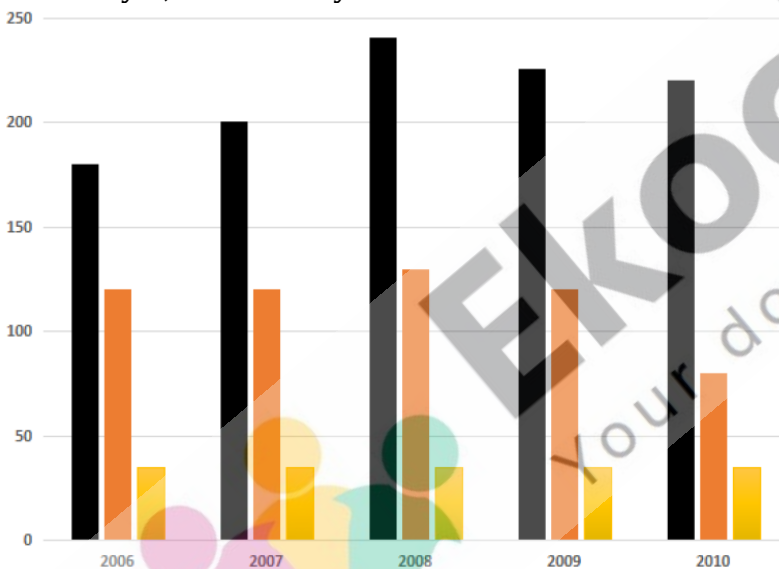
Ans: b

@MarkingFactors: 3 1
@SubjectId: 0
@TopicId: 0
@SubTopicId: 0
@Instruction: 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)

Q.86

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

SNAP-2011

(a) 2.64 million
(b) 2.72 million
(c) 2.79 million
(d) 2.85 million

Sol:

$$\text{Population} = \frac{\text{Consumpion}}{\text{Percapita consumption}}$$

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

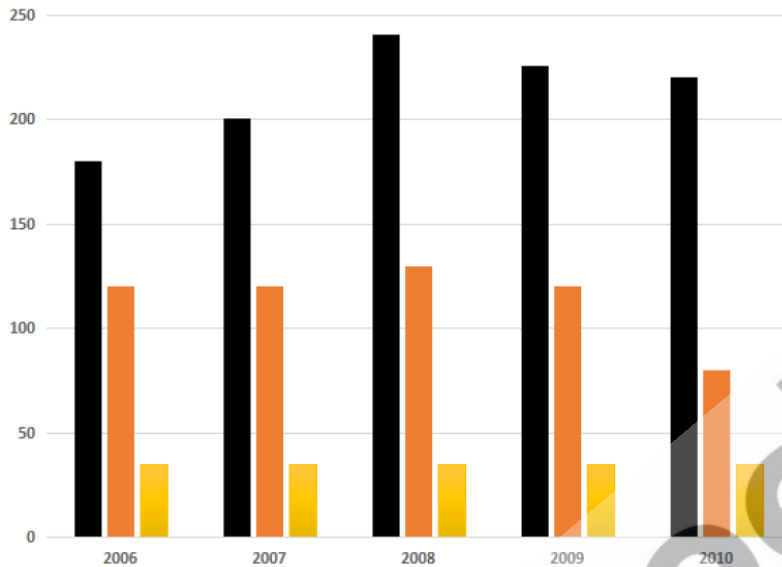C is the correct answer.

Ans: c

@MarkingFactors: 3 1

@SubjectId: 0

@TopicId: 0

@SubTopicId: 0

@Instruction: 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)

Q.87

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

<div align="right">**SNAP-2011**</div>

(a) 2006

(b) 2007

(c) 2008

(d) 2009

Sol:
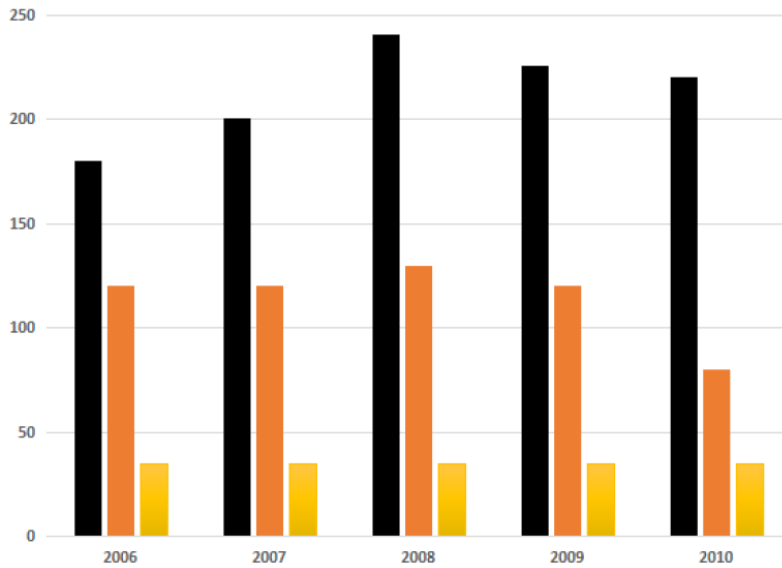
Ans: a

@MarkingFactors: 3 1

@SubjectId: 0

@TopicId: 0

@SubTopicId: 0

@Instruction: 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)

Q.88

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

SNAP-2011

(a) 2007
(b) 2008
(c) 2009
(d) 2010

Sol:

$$Population = \frac{Consumption}{Percapita\ consumption}$$

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.
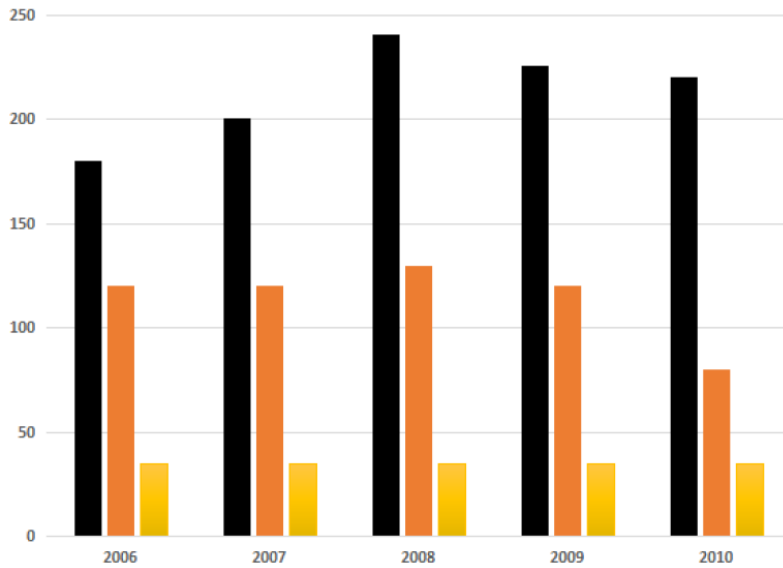
Ans: d

@MarkingFactors: 3 1

@SubjectId: 0

@TopicId: 0

@SubTopicId: 0

@Instruction: 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)

Q.89

The percentage of time which he spends in school is:

(a) 38%
(b) 30%
(c) 40%
(d) 25%

Sol:

The time spent in school corresponds to 105^0

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

=Approx 30%

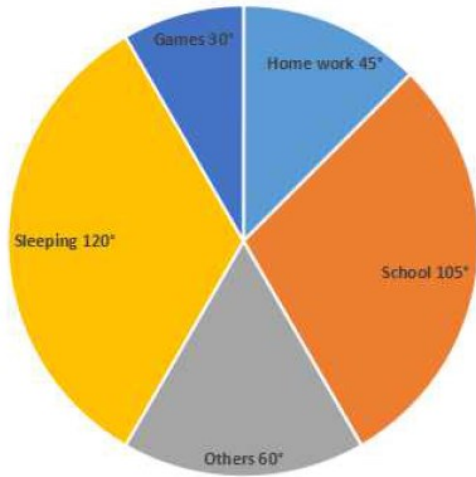B is the correct answer.

Ans: b

@MarkingFactors: 3 1

@SubjectId: 0

@TopicId: 0

@SubTopicId: 0

@Instruction: 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.

Q.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

Sol:

Time spent on games corresponds to $30°$ and on sleeping to $120°$

Required ratio $= \dfrac{30}{120} \times 100$

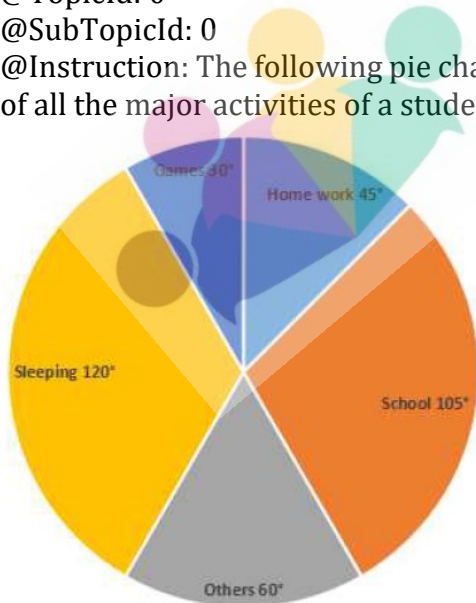$= 25\ \%$

C is the correct answer.

Ans: c

@MarkingFactors: 3 1
@SubjectId: 0
@TopicId: 0
@SubTopicId: 0
@Instruction: 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.

Q.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:

SNAP-2011

(a) 15 %
(b) 12.5 %
(c) 20%
(d) None of these

Sol :

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 $= \dfrac{15°}{120°} \times 100$

$= 12.5°$

B is the correct answer.

Ans : b

@MarkingFactors: 3 1
@SubjectId: 0
@TopicId: 0
@SubTopicId: 0
@Instruction: 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.

Q.92

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

SNAP-2011

(a) 2
(b) 3
(c) 4
(d) 8

Sol:

School corresponds to 105° and homework corresponds to 45°

Difference $= 105° - 45°$

$= 60°$

$= \dfrac{60}{360} \times 24$

$= 4$ hrs

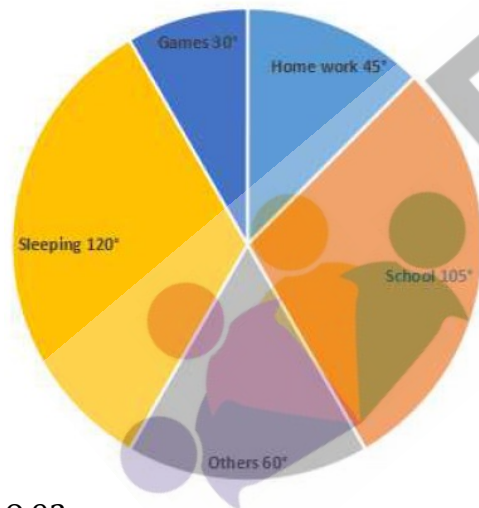C is the correct answer.

Ans: c

@MarkingFactors: 3 1

@SubjectId: 0

@TopicId: 0

@SubTopicId: 0

@Instruction: 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.

Q.93

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

SNAP-2011

(a) 1

(b) 2

(c) 3

(d) 4

Sol:

The total number of hours $= 24$

Time spent on homework $= 45°$

$= \dfrac{45}{360} \times 24 = 3$ hrs

It is given that she spent $\dfrac{1}{3}rd$ time of homework in mathematics.

The time she spent on Mathematics $= \dfrac{1}{3} \times 3$

$= 1$ hr

The time she spent on the rest of the subjects $= 3\text{-}1 = 2$ hr
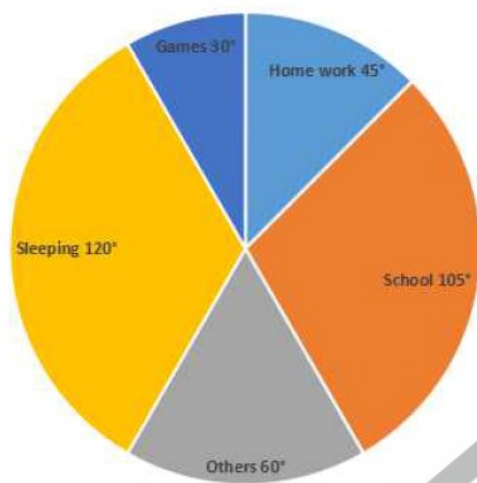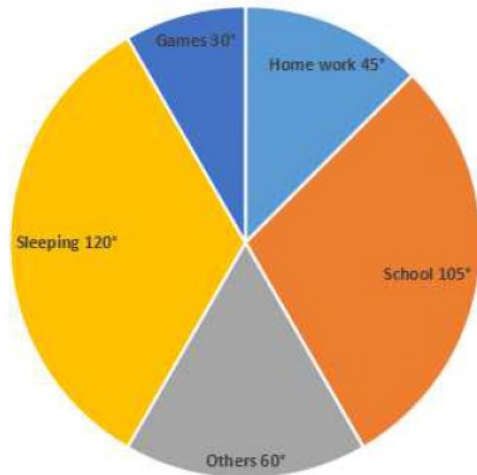
B is the correct answer.

Ans : b
@MarkingFactors: 3 1
@SubjectId: 0
@TopicId: 0
@SubTopicId: 0
@Instruction: 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.

Q.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:

SNAP-2011
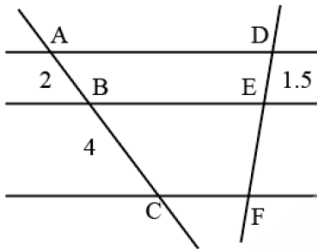
(a) 2 cm
(b) 3 cm
(c) 3.5 cm
(d) 4 cm

Sol:

AD is parallel to BE is parallel to CF

$\dfrac{AB}{BC} = \dfrac{DE}{EF}$ [Basic proportionality theorem]

$\dfrac{2}{4} = \dfrac{1.5}{EF}$

EF = 3 cm

B is the correct answer.

Ans: b
@MarkingFactors: 3 1
@SubjectId: 0
@TopicId: 0
@SubTopicId: 0
@Instruction: For the following questions answer them individually

Q.95
Find the value of $\log_{10}10 + \log_{10}10^2 + \ldots + \log_{10}10^n$

(a) $n^2 + 1$

(b) $n^2 - 1$

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

(d) $\dfrac{(n^2 + n)}{2}$

Sol:

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

Since $\log_a a = 1$

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

$= \dfrac{n(n+1)}{2}$

$= \dfrac{(n^2 + n)}{2}$

D is the correct answer.

Ans: d

@MarkingFactors: 3 1

@SubjectId: 0

@TopicId: 0

@SubTopicId: 0

@Instruction: For the following questions answer them individually

Q.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) $\pm\dfrac{1}{\sqrt{2}}$

(c) $\pm\dfrac{1}{\sqrt{3}}$

(d) $\pm\sqrt{3}$

Sol:

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.

$a + \dfrac{1}{a} = 3\left(a - \dfrac{1}{a} \right)$

$2a = \dfrac{4}{a}$

$a = \dfrac{2}{a}$

$a^2 = 2$

$a = \pm\sqrt{2}$

A is the correct answer.

Ans : a

@MarkingFactors: 3 1

@SubjectId: 0

@TopicId: 0

@SubTopicId: 0

@Instruction: For the following questions answer them individually.

Q.97

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

SNAP-2011

(a) 32
(b) 30
(c) 33
(d) 34

Sol:

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
$297 = 18 + (n-1)9$
$279 = (n-1)9$
$n-1 = 31$
$n = 32$
A is the correct answer.
Ans: a

@MarkingFactors: 3 1
@SubjectId: 0
@TopicId: 0
@SubTopicId: 0
@Instruction: For the following questions answer them individually.

Q.98

If $^nC_x = 56$ and $^nP_x = 336$, then Find n and x ?

SNAP-2011

(a) 7, 3
(b) 8, 4
(c) 8, 3
(d) 9, 6

Sol:

$^nP_r = {}^nC_r * r!$
$^nP_x = 336$
$^nC_x * x! = 336$
$x! = \dfrac{336}{56}$
$x! = 6$
$x = 3$
$^nC_x = 56$

$\dfrac{n!}{(n-x)! \times x!} = 56$

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

$n = 8$
$\therefore n = 8, x = 3$

C is the correct answer.
Ans: c

@MarkingFactors: 3 1
@SubjectId: 0
@TopicId: 0

@SubTopicId: 0

@Instruction: For the following questions answer them individually.

Q.99

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.

SNAP-2011

(a) 144 cm

(b) 72 cm

(c) 536 cm

(d) 676 cm

Sol:

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.

Ans: a

@MarkingFactors: 3 1

@SubjectId: 0

@TopicId: 0

@SubTopicId: 0

@Instruction: For the following questions answer them individually.

Q.100

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

SNAP-2011

(a) $\dfrac{17}{53}$ (b) $\dfrac{1}{53}$ (c) $\dfrac{3}{7}$ (d) None of these

Sol :

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 $= \dfrac{2}{7}$

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

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

Monday probability for this $= \dfrac{1}{7}$

Hence required probability $= \dfrac{2}{7} + \dfrac{2}{7} - \dfrac{1}{7} = \dfrac{3}{7}$

C is the correct answer.
Ans : c
@MarkingFactors: 3 1
@SubjectId: 0
@TopicId: 0
@SubTopicId: 0
@Instruction: For the following questions answer them individually.
Q.101
Find the intercepts made by the line 3x + 4y - 12 = 0 on the axes:

SNAP-2011

(a) 2 and 3
(b) 4 and 3
(c) 3 and 5
(d) None of these
Sol:

The intercept form of the line $= \dfrac{x}{a} + \dfrac{y}{b} = 1$ where a is x- intercept and b is y – intercept.

3x + 4y - 12 = 0
3x + 4y = 12
$\dfrac{3x}{12} + \dfrac{4y}{12} = 1$
$\dfrac{x}{4} + \dfrac{y}{3} = 1$

So the intercepts are 4 and 3.
B is the correct answer.
Ans: b
@MarkingFactors: 3 1
@SubjectId: 0
@TopicId: 0
@SubTopicId: 0
@Instruction: For the following questions answer them individually.
Q.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:

SNAP-2011

(a) 30
(b) 14
(c) 21

(d) Cannot be determined

Sol :

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

(a, b, c, d) = 29, 31, 37, 43

d - a = 43 - 29 = 14

B is the correct answer.

Ans : b

@MarkingFactors: 3 1

@SubjectId: 0

@TopicId: 0

@SubTopicId: 0

@Instruction: For the following questions answer them individually.

Q.103

Ramsukhbhai 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 % profit. What is the cost price of sugar?

SNAP-2011

(a) Rs. 10/kg

(b) Rs. 9/kg

(c) Rs. 18/kg

(d) Rs. 14/kg

Sol:

SP of 1kg rasgulla= Rs.15

Profit $= = \dfrac{200}{3}\%$

CP of 1 kg rasgulla $= \left(\dfrac{15 \times 100}{\dfrac{500}{3}} \right) = $ Rs.9

CP of 1 kg of sugar= 7x

CP of 1 kg of floor= 3x

3x   7x

     9

7x-9   9-3x

9 -3x   =   3

X=2

CP of sugar = 7x = 14 per kg

D is the correct answer.

Ans: d

@MarkingFactors: 3 1

@SubjectId: 0

@TopicId: 0

@SubTopicId: 0

@Instruction: For the following questions answer them individually.

Q.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?

SNAP-2011

(a) Rs. 10/kg

(b) Rs. 8/kg

(c) Rs. 6/kg

(d) Rs. 5/kg

Sol:

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. $100 = 100 \times \dfrac{100}{80} = 125 Kg\ sugar$

Increment in sugar = 25 kg.

% increment = $\dfrac{125-100}{100} \times 100 = 25\%$

25% increment = 6 kg of sugar

Total sugar initially = 6*4 = 24kg

Original price of the sugar = $\dfrac{240}{24}$

=Rs. 10 per kg

A is the correct answer.

Ans: a

@MarkingFactors: 3 1

@SubjectId: 0

@TopicId: 0

@SubTopicId: 0

@Instruction: For the following questions answer them individually.

Q.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?

SNAP-2011

(a) 4 : 3

(b) 2 : 3

(c) 3 : 4

(d) None of these

Sol:

Let the radius of solid sphere be r.

The volume of sphere $V_s = \dfrac{4}{3}\pi r^3$

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

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

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

$V_s = V_c$

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

$h = 4r$

$\dfrac{h}{r} = 4$

D is the correct answer.

Ans: d

@MarkingFactors: 3 1

@SubjectId: 0

@TopicId: 0

@SubTopicId: 0

@Instruction: For the following questions answer them individually.

Q.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:

SNAP-2011

(a) 256 : 16 : 1

(b) 1 : 4 : 16

(c) 16 : 4 : 1

(d) 16 : 1 : 4

Sol:

Since distance is constant.

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

And therefore, the ratio of time taken = $\dfrac{16}{1} : \dfrac{4}{4} : \dfrac{1}{16}$

$= 16 : 1 : \dfrac{1}{16} = 256 : 16 : 1$

A is the correct answer.

Ans: a

@MarkingFactors: 3 1

@SubjectId: 0

@TopicId: 0

@SubTopicId: 0

@Instruction: For the following questions answer them individually.

Q.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?

SNAP-2011

(a) 1 day

(b) 2 days

(c) 6 days

(d) 5 days

Sol:

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 x days, A worked alone and hence work done per day is

1 * x = x units.

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.

Ans: b

@MarkingFactors: 3 1

@SubjectId: 0

@TopicId: 0

@SubTopicId: 0

@Instruction: For the following questions answer them individually.

Q.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:

SNAP-2011

(a) 10 lakhs

(b) 12 lakhs

(c) 16 lakhs

(d) 18 lakhs

Sol:

A+B+C+D = 56 – Eq 1

B+C+D = 4.6 A – Eq 2

A+C+D = $\dfrac{11B}{3}$ – 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.

Ans: d

@MarkingFactors: 3 1

@SubjectId: 0

@TopicId: 0

@SubTopicId: 0

@Instruction: For the following questions answer them individually.

Q.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?

SNAP-2011

(a) 33.33%

(b) 50%

(c) 15.18%

(d) 14.28%

Sol:

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 = $\dfrac{80x - 70x}{70x} \times 100$

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

$= 14.28\%$

D is the correct answer.

Ans: d

@MarkingFactors: 3 1

@SubjectId: 0

@TopicId: 0

@SubTopicId: 0

@Instruction: For the following questions answer them individually.

Q.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?

SNAP-2011

(a) 2 times

(b) 4 times

(c) 5 times

(d) 9 times

Sol:

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

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

$\pi r^2 h_1 = \pi \left(\dfrac{r}{3}\right)^2 h_2$

Cancelling π on both sides,

$r^2 h1 = \dfrac{r^2}{9} h_2$

$9h_1 = h_2$

Length is increases by 9 times

D is the correct answer.

Ans: d

@MarkingFactors: 3 1

@SubjectId: 0

@TopicId: 0

@SubTopicId: 0

@Instruction: For the following questions answer them individually.

Q.111

By triumph the author means-

(a) sin

(b) loss

(c) sorrow

(d) victory

Sol :

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.

Ans: d

@MarkingFactors: 3 1

@SubjectId: 0

@TopicId: 0

@SubTopicId: 0

@Instruction: Read the following passage and answer the questions that follow.

Q.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

Sol:

Ans: c

@MarkingFactors: 3 1

@SubjectId: 0

@TopicId: 0

@SubTopicId: 0

@Instruction: Read the following passage and answer the questions that follow.

Q.113

By rapture the author means an emotion involving great

(a) trepidation

(b) thrill

(c) fear
(d) joy
Sol:
Ans: d
@MarkingFactors: 3 1
@SubjectId: 0
@TopicId: 0
@SubTopicId: 0
@Instruction: Read the following passage and answer the questions that follow.
Q.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
Sol:
Ans: d
@MarkingFactors: 3 1
@SubjectId: 0
@TopicId: 0
@SubTopicId: 0
@Instruction: Read the following passage and answer the questions that follow.
Q.115
The tone of this passage is

(a) social
(b) moral
(c) reflective
(d) philosophical
Sol:
Ans: d
@MarkingFactors: 3 1
@SubjectId: 0
@TopicId: 0
@SubTopicId: 0
@Instruction: Read the following passage and answer the questions that follow.
Q.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
Sol:
Ans: d
@MarkingFactors: 3 1
@SubjectId: 0
@TopicId: 0

@SubTopicId: 0
@Instruction: Read the following passage and answer the questions that follow.
Q.117
Choose the correct option.
The repetition of messages or the use of superfluous expressions is called ……..........

SNAP-2011

(a) redundancy
(b) hyperbole
(c) alliteration
(d) allegory
Sol:
Ans: a
@MarkingFactors: 3 1
@SubjectId: 0
@TopicId: 0
@SubTopicId: 0
@Instruction: For the following questions answer them individually
Q.118
Choose the correct option.
Ink : pen : paper

SNAP-2011

(a) watch : dial : strap
(b) book : paper : words
(c) farmer : plough : field
(d) colour : brush : canvas
Sol:
Ans: d
@MarkingFactors: 3 1
@SubjectId: 0
@TopicId: 0
@SubTopicId: 0
@Instruction: For the following questions answer them individually
Q.119
Choose the correct option.
Choose the correct option for realia

SNAP-2011

(a) theoretical constructs
(b) fabricated examples
(c) objects from real life
(d) based on reality
Sol:
Ans: c
@MarkingFactors: 3 1
@SubjectId: 0
@TopicId: 0
@SubTopicId: 0
@Instrucion: For the following questions answer them individually
Q.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.
Sol:
Ans: d
@MarkingFactors: 3 1
@SubjectId: 0
@TopicId: 0
@SubTopicId: 0
@Instruction: For the following questions answer them individually
Q.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!
Sol:
Ans: a
@MarkingFactors: 3 1
@SubjectId: 0
@TopicId: 0
@SubTopicId: 0
@Instruction: For the following questions answer them individually
Q.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.
Sol:
Ans: c
@MarkingFactors: 3 1
@SubjectId: 0
@TopicId: 0
@SubTopicId: 0
@Instruction: For the following questions answer them individually
Q.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?
Sol:
Ans: a
@MarkingFactors: 3 1
@SubjectId: 0
@TopicId: 0
@SubTopicId: 0
@Instruction: For the following questions answer them individually
Q.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.
Sol:
Ans: d
@MarkingFactors: 3 1
@SubjectId: 0
@TopicId: 0
@SubTopicId: 0
@Instruction: For the following questions answer them individually
Q.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.
Sol:
Ans: b
@MarkingFactors: 3 1
@SubjectId: 0
@TopicId: 0
@SubTopicId: 0
@Instruction: For the following questions answer them individually
Q.126
Choose the correct option

(a) described as
(b) included in
(c) supported for
(d) reformed as
Sol:

Ans: a
@MarkingFactors: 3 1
@SubjectId: 0
@TopicId: 0
@SubTopicId: 0
@Instruction: For the following questions answer them individually
Q.127
Choose the correct option

(a) self - centered
(b) impartial
(c) self - seeking
(d) self - possessed
Sol:
Ans: b
@MarkingFactors: 3 1
@SubjectId: 0
@TopicId: 0
@SubTopicId: 0
@Instruction: For the following questions answer them individually
Q.128
Choose the correct option-

(a) swell
(b) prevent
(c) propel
(d) lucubrate
Sol:
Ans: b
@MarkingFactors: 3 1
@SubjectId: 0
@TopicId: 0
@SubTopicId: 0
@Instruction: For the following questions answer them individually
Q.129
Choose the correct option-

(a) complaints
(b) dishonesty
(c) committees
(d) opinions
Sol:
Ans: a
@MarkingFactors: 3 1
@SubjectId: 0
@TopicId: 0
@SubTopicId: 0
@Instruction: For the following questions answer them individually
Q.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.
Sol:
Ans: a
@MarkingFactors: 3 1
@SubjectId: 0
@TopicId: 0
@SubTopicId: 0
@Instruction: For the following questions answer them individually
Q.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
Sol:
Ans: c
@MarkingFactors: 3 1
@SubjectId: 0
@TopicId: 0
@SubTopicId: 0
@Instruction: For the following questions answer them individually
Q.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
Sol:
Discuss means 'to talk about sth'
Discuss about is a redundant word, hence incorrect.
Ans: b
@MarkingFactors: 3 1
@SubjectId: 0
@TopicId: 0
@SubTopicId: 0

@Instruction: 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.

Q.133

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

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(a) inquired with
(b) to repeat
(c) again
(d) no error

Sol:

Ans: c

@MarkingFactors: 3 1
@SubjectId: 0
@TopicId: 0
@SubTopicId: 0

@Instruction: 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.

Q.134

One of the security guards rushed forward; unlocked the gate and asked whether I had anything objectionable.

SNAP-2011

(a) security guards
(b) forward
(c) objectionable
(d) no error

Sol:

Ans: d

@MarkingFactors: 3 1
@SubjectId: 0
@TopicId: 0
@SubTopicId: 0

@Instruction: 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.

Q.135

I always told them ………… and consideration for me.

P. How for me she
Q. Always exuded warmth
R. Was like a family's
S. Elder and how she has

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(a) PRSQ
(b) PQSR
(c) PRQS
(d) SQPR

Sol:

Ans: a
@MarkingFactors: 3 1
@SubjectId: 0
@TopicId: 0
@SubTopicId: 0
@Instruction: Rearrange the following sentence fragment (P, Q, R and S) to make meaningful sentences.
Q.136
A year or ………… foreign languages
P. I picked up a liking for learning
Q. the largest urban area and primary
R. so after leaving Bangkok
S. city of Thailand and a place of unique beauty

(a) RPQS
(b) RQSP
(c) RSPQ
(d) SPQR
Sol:
Ans: b
@MarkingFactors: 3 1
@SubjectId: 0
@TopicId: 0
@SubTopicId: 0
@Instruction: Rearrange the following sentence fragment (P, Q, R and S) to make meaningful sentences.
Q.137
Choose the correct option.
This book ………….. five sections

(a) comprises of
(b) comprises
(c) consists
(d) comprises to
Sol:
Ans: b
@MarkingFactors: 3 1
@SubjectId: 0
@TopicId: 0
@SubTopicId: 0
@Instruction: For the following questions answer them individually
Q.138
Choose the correct option.
My grandfather left most of his money to an NGO; the rest went directly to my daughter and …………........

(a) I
(b) me
(c) myself

(d) myself too
Sol:
Ans: b
@MarkingFactors: 3 1
@SubjectId: 0
@TopicId: 0
@SubTopicId: 0
@Instruction: Rearrange the following sentence fragment (P, Q, R and S) to make meaningful sentences.
Q.139
Choose the correct option.
Parts of a country behind the coast or a river's banks

(a) Isthumus
(b) Archipelago
(c) Hinterland
(d) Swamps
Sol:
Ans: c
@MarkingFactors: 3 1
@SubjectId: 0
@TopicId: 0
@SubTopicId: 0
@Instruction: Rearrange the following sentence fragment (P, Q, R and S) to make meaningful sentences.
Q.140
Who is creating this mess?

(a) Who has been created this mess?
(b) By whom has this mess been created?
(c) By whom this mess is being created?
(d) By whom is this mess being created?
Ans: d
@MarkingFactors: 3 1
@SubjectId: 0
@TopicId: 0
@SubTopicId: 0
@Instruction: In the questions below, the sentences have been given in Active/Passive voice. From the given alternatives, choose the one which best expresses the given sentence in Passive /Active voice.
Q.141
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.
Sol:
Ans: d

@MarkingFactors: 3 1
@SubjectId: 0
@TopicId: 0
@SubTopicId: 0
@Instruction: In the questions below, the sentences have been given in Active/Passive voice. From the given alternatives, choose the one which best expresses the given sentence in Passive /Active voice.
Q.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:

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(a) QRSP
(b) RSQP
(c) RQSP
(d) QRPS
Sol:
Ans: a
@MarkingFactors: 3 1
@SubjectId: 0
@TopicId: 0
@SubTopicId: 0
@Instruction: For the following questions answer them individually
Q.143
Choose the word which best expresses the meaning of the given word.
FRUGALITY

SNAP-2011

(a) Foolishness
(b) Extremity
(c) Enthusiasm
(d) Economy
Sol:
Ans: d
@MarkingFactors: 3 1
@SubjectId: 0
@TopicId: 0
@SubTopicId: 0
@Instruction: For the following questions answer them individually
Q.144

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

(a) Massenger
(b) Steward
(c) Forerunner
(d) Pilot
Sol:
Ans: c
@MarkingFactors: 3 1
@SubjectId: 0
@TopicId: 0
@SubTopicId: 0
@Instruction: For the following questions answer them individually
Q.145
Choose the word which is the exact OPPOSITE of the given words.
EXODUS

(a) Influx
(b) Home - coming
(c) Return
(d) Restoration
Sol:
Ans: a
@MarkingFactors: 3 1
@SubjectId: 0
@TopicId: 0
@SubTopicId: 0
@Instruction: For the following questions answer them individually
Q.146
Choose the word which is the exact OPPOSITE of the given words.
EQUANIMITY

(a) Resentment
(b) Dubiousness
(c) Duplicity
(d) Excitement
Sol:
Ans: d
@MarkingFactors: 3 1
@SubjectId: 0
@TopicId: 0
@SubTopicId: 0
@Instruction: For the following questions answer them individually
Q.147
Find the Odd one out from the group of words.

(a) Bludgeon
(b) Dragon

(c) Black Jack

(d) Order

Ans: d

@MarkingFactors: 3 1

@SubjectId: 0

@TopicId: 0

@SubTopicId: 0

@Instruction: For the following questions answer them individually

Q.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

Sol:

Ans: d

@MarkingFactors: 3 1

@SubjectId: 0

@TopicId: 0

@SubTopicId: 0

@Instruction: For the following questions answer them individually

Q.149

Both of them …………… since their childhood.

(a) are working here

(b) work here

(c) have been working

(d) are liking to work

Sol:

Ans: c

@MarkingFactors: 3 1

@SubjectId: 0

@TopicId: 0

@SubTopicId: 0

@Instruction: For the following questions answer them individually

Q.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

Sol:

Ans: d

@MarkingFactors: 3 1

@SubjectId: 0

@TopicId: 0
@SubTopicId: 0
@Instruction: For the following questions answer them individually.