



NICL Administrative Officer (AO) Finance Exam 2013 Question paper

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General Awareness

Instructions

For the following questions answer them individually

Question 1

How many fundamental rights are now guaranteed under the Constitution of India ?

- A 8
- B 7
- C 6
- D 9

Answer: B

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Question 2

The short-term variations of the atmosphere, ranging from minutes to months are called

- A Climate
- B Weather
- C Temperature
- D Humidity

Answer: B

Question 3

The warmest sea amongst the following is

- A the Tasma sea
- B the Baltic sea
- C the Beaufort sea
- D the Red sea

Answer: D

Question 4

Which of the following places does not have a Railway Production Unit ?

- A Bhopal
- B Kapurthala
- C Perambur
- D Hyderabad

Answer: D

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Question 5

Which of the following events is not correct ?

- A Simon Commission --- 1927
- B Salt Satyagraha---1930
- C Gandhi-Irwin Pact --1931
- D Quit India Movement --1941

Answer: D

Question 6

The world's highest plateau is the

- A Canadian
- B Deccan
- C Bolivian
- D Tibetan

Answer: D

Question 7

The Rhine river of northern Europe empties into

- A the Baltic Sea
- B the North Sea
- C the Bay of Biscay
- D the Adriatic Sea

Answer: B

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Question 8

The 'Doing Business Report' is prepared by which of the following organisations every year?

- A World Bank
- B Asian Development Bank (ADB)
- C International Monetary Fund (IMF)
- D None of these

Answer: A

Question 9

The planets that are called superior planets are

- A Mercury, Venus, Earth, Mars and Jupiter
- B Jupiter, Saturn, Uranus and Neptune
- C Mercury, Venus, Neptune and Earth
- D Earth, Uranus, Mars, Saturn and Jupiter

Answer: B

Explanation:

Mars, Jupiter, Saturn, Uranus and Neptune are the superior planets. Mercury and Venus are the inferior planets.

Question 10

Where did Babar die?

- A Agra
- B Delhi
- C Kabul
- D Lahore

Answer: A

Explanation:

Babar died in Agra during the year 1530.

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Question 11

The process that explains the recent changes in the height of sea level in coastal areas of eastern and northern Canada and Scandinavia is

- A isostasy
- B continental drift
- C plate tectonics
- D None of these

Answer: A

Question 12

Retreating monsoon causes sporadic rainfall in which of the following areas ?

- A Coast of North Maharashtra
- B Northern Chhattisgarh
- C Malwa plateau and Vidarbha region
- D Coast of Tamil Nadu

Answer: D

Question 13

During the time of Confucius, China was under the rule of which of the following dynasties?

- A Chau
- B Sunga
- C Sui
- D Han

Answer: D

Explanation:

During the time of Confucius (206 BCE-220 CE), China was under the rule of Han dynasty.

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Question 14

The Mid-day Meal scheme was launched and implemented by the Ministry of Human Resource Development from ____ for the benefit of students in primary schools.

- A 26 January 1985
- B 15 August 1985
- C 26 January 2005
- D 15 August 2005
- E None of the above

Answer: E

Question 15

What is the other name of the 'Tocharians' who came to India after the disintegration of Mauryan empire?

- A Indo-Greeks
- B Sakas
- C Parthians
- D Kushanas

Answer: D

Question 16

When did the World Trade Organisation, which sets out rules for world trade, come into forces ?

- A 1948
- B 1951
- C 1954

D 1995

Answer: D

Question 17

The percentage of sun's radiation reflected back into space is about

A 36 per cent

B 47 per cent

C 17 per cent

D None of these

Answer: A

Question 18

Following the famous Quit India resolve, the top Congress leaders were arrested on

A 8 August 1942

B 9 August 1942

C 11 August 1942

D 12 August 1942

Answer: B

Question 19

Who among the following authors translated the famous work, "Ki- tabal-Hind" into English ?

A Walter Roper Lawrence

B E. Sachau

C A1- Muqaddsi

D S. Rahim

Answer: B

Question 20

'Economics is what is ought to be'. This statements to refer:

A Normative Economics

B Positive Economics

C Monetary Economics

D Fiscal Economics

Answer: A

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Finance

Instructions

For the following questions answer them individually

Question 21

The accounting equation is in accord with the fundamental _____ concept of accounting.

- A Money measurement
- B Going concern
- C Realization
- D Dual aspect

Answer: D

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Question 22

VaR means:

- A Volume of Business at Risk
- B Value at Risk
- C Volume on Risk
- D Value as Risk

Answer: B

Question 23

Hunting is an instance of _____ industry.

- A Genetic
- B Primitive
- C Extractive
- D Manufacturing

Answer: B

Question 24

The cash price of a machine is Rs. 1,20,000 and its hire purchase price is Rs. 1,50,000 to be paid in five equal yearly instalments. If a company purchases machine on hire purchase basis, the amount of capital expenditure will be

- A Rs. 1,20,000
- B Rs. 1,35,000
- C Rs. 1,50,000

D Rs. 1,60,000

Answer: A

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Question 25

Who has observed that "An office system means a network of procedures integrated and designed to carry out a major activity"?

A Henry Fayol

B George Terry

C O'Donnel

D Gulshan

Answer: B

Question 26

Advance received from customer is

A an item of current liability

B an item of non-current asset

C an item of contingent liability

D an item of non-cash cost

Answer: A

Question 27

'Causa Proxima' implies that the loss must arise from

A The nearest place

B An ascertainable source

C The cause insured against

D Unforeseen against

Answer: C

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Question 28

Jim, a sole proprietor paid a creditor Mr. A from his money outside the firm. The entry to record the transaction would be:

A Debit Cash - Credit Bank

B Debit Mr. A - Credit Capital

C Debit Creditor - Credit Cash

D None of these

Answer: B

Question 29

If the volatility per annum is 25% and the number of trading days per annum is 252, find the volatility per day.

- A 1.58%
- B 15.8%
- C 158%
- D 0.10%

Answer: A

Question 30

If Capital at the end

Rs. 7,000

Capital introduced Rs. 5,000

Drawings Rs. 8,000

Loss Rs. 10,000

Then the capital in the beginning is equal to

- A Rs.12,000
- B Rs. 16,000
- C Rs. 20,000
- D Rs. 30,000

Answer: C

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Question 31

Closing stock is valued at cost or market price, whichever is

- A Higher
- B Lower
- C Convenient to the management
- D Appealing to the accountant

Answer: B

Question 32

A company's auditor is expected to give

- A A critical review of accounts
- B His expert opinion about the accounts
- C A factual position about the accounts

D All of the above

Answer: B

Question 33

Name of the board set up by the council of the ICAI to formulate accounting standards.

A Financial Accounting Standards Board (FASB)

B Accounting Standard Board (ASB)

C Indian Accounting Standards Board (IASB)

D None of these

Answer: B

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Question 34

What does net working capital stand for ?

A Fixed assets minus current assets

B Fixed assets minus current liabilities

C Current assets minus current liabilities

D Noncurrent liabilities minus current assets

Answer: C

Question 35

Identify the items shown under fixed assets in the company's balance sheet.

A: Patents

B: Investments

C: Work-in-progress

D: Plant and machinery

A B and C

B A and D

C Only A

D A, B and C

Answer: B

Question 36

The company pays its creditors by cheque. What is the effect on assets and liabilities?

A Reduce Bank and Reduce Creditors

B Increase Bank and Increase Creditors

C Reduce Bank and Increase Creditors

D None of these

Answer: A

Explanation:

The company pays its creditors by cheque. Then the effect on assets and liabilities is Reduce Bank and Reduce Creditors respectively.

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Question 37

Provision for doubtful debts account is a ____ account.

A Real

B Personal

C Nominal

D None of these

Answer: D

Question 38

According to Companies Act when the dividend proposals exceed 20% of the Paid Up Capital, the amount to be transferred to reserve shall not be less than

A 7.5 per cent of the current profit

B 10 per cent of the current profit

C 12.5 per cent of the current profit

D 15 per cent of the current profit

Answer: B

Question 39

In the balance sheet audit, such audit work as vouching and posting

A Is continued

B Is dispensed with

C Is partly continued and partly not followed

D None of these

Answer: B

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Question 40

A person insures his goods worth Rs. 1,000 for Rs. 800 and suffers a loss of Rs. 900. His claim can be for

A Rs. 1,000

B Rs. 900

- C Rs. 800
- D Rs. 1,900

Answer: C

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Reasoning

Instructions

For the following questions answer them individually

Question 41

Six friends are sitting in a circle and are facing the centre of the circle. Deepa is between Prakash and Pankaj. Priti is between Mukesh and Lalit. Prakash and Mukesh are opposite to each other. Who is sitting opposite to Priti ?

- A Mukesh
- B Deepa
- C Pankaj
- D Lalit

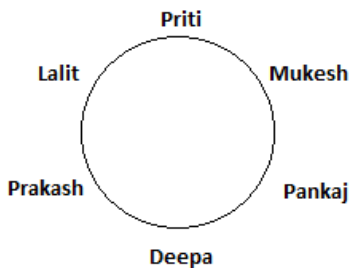
Answer: B

Explanation:

The data given to us is:

Deepa is between Prakash and Pankaj, Priti is between Mukesh and Lalit. Prakash and Mukesh are opposite to each other.

This can be interpreted in diagrammatic form as:



Therefore, Deepa is sitting opposite to Priti.

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Question 42

Arrange the words given below in a meaningful sequence.

1. Cut
2. Put on
3. Mark
4. Measure
5. Tailor

- A 3, 1, 5, 4, 2

B 2, 4, 3, 1, 5

C 1, 3, 2, 4, 5

D 4, 3, 1, 5, 2

Answer: D

Explanation:

The steps mentioned are that of tailoring a piece of cloth to give a finished product. Therefore, the steps are,

4. Measure
3. Mark
1. Cut
5. Tailor
2. Put on

Therefore, the correct order is 43152, i.e. option D.

Question 43

In a certain code, SUBSTITUTION is written as ITSBUSNOITUT. How is DISTRIBUTION written in that code ?

A IRTDISNOIUTB

B IRTSIDNOIBUT

C IRTDISNOITUB

D IRTSIDNOITUB

Answer: D

Explanation:

Here, the word is divided into four groups of three letters each.

DIS TRI BUT ION

Each group is used in its reverse manner in new word formed.

Observing the coding of SUBSTITUTION as ITSBUSNOITUT we get,

IRTSIDNOITUB

Therefore, option D is the correct answer.

Question 44

The logic problems in this set present you with three true statements: Fact A, Fact B and Fact C. Then you are given three more statements (labelled I, II and III), and you must determine which of these, if any, is also a fact. One or two of the statements could be true; all of the statements could be true; or none of the statement could be true. Choose your answer based solely on the information given in the first three facts.

Fact A: All hats have brims.

Fact B: There are black hats and blue hats.

Fact C: Baseball caps are hats

If the first three statements are facts, which of the following statements must also be a fact?

I. All caps have brims

II. Some baseball caps are blue

III. Baseball caps have no brims.

A I Only

B II Only

C II and III Only

D None of the statements is a known fact.

Answer: B

Explanation:

The only statement which will be a fact is 'Some baseball caps are blue'.
All baseball caps are hats. Hats are of two colours blue and black.
Therefore, some baseball caps are blue.
Hence, only statement II is true.

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Question 45

A's son B is married with C whose sister D is married to E the brother of B. How is D is related to A ?

- A Sister
- B Daughter-in-law
- C Sister-in-law
- D Cousin

Answer: B

Explanation:

B is son of A.
Now, B is married to C. C's sister D is married to E who is brother of B.
Therefore, E is son of D. Also, as D is wife of E, hence, D is daughter-in-law of A.
Therefore, the correct option is option B.

Question 46

A cube is cut in two equal parts along a plane parallel to one of its faces. One piece is then coloured red on the two larger faces and green on the remaining, while the other is coloured green on two smaller adjacent faces and red on the remaining. Each is then cut into 32 cubes of same size and mixed up.

How many cubes have two red and one green face on each ?

- A 0
- B 8
- C 16
- D 4

Answer: D

Question 47

Choose the pair in which the words are differently related from the rest ?

- A Beans: Pulses
- B Rice: Cereals
- C Tea: Beverages
- D Legumes: Nodules

Answer: D

Explanation:

Now,
Bean is a type of Pulse.
Rice is a type of Cereal.
Tea is a type of Beverage.
However no such relationship exists between legume and nodule.
Therefore, the correct option is option D.

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Question 48

Choose the word which is different from the rest?

- A Wool
- B Honey
- C Silk
- D Wax

Answer: A

Explanation:

Except wool, all others are products derived from insects.
Wool is derived from sheep which is an animal.
Therefore, the correct option is option A.

Question 49

Choose the word which is different from the rest ?

- A Acharya Kripalani
- B C.V. Raman
- C Rajagopalachari
- D Radhakrishnan

Answer: A

Explanation:

Except C.V Raman all others were politicians or statesman.
C.V Raman was scientist.
Therefore, the correct option is option A.

Question 50

Six friends are sitting in a circle and are facing the centre of the circle. Deepa is between Prakash and Pankaj. Priti is between Mukesh and Lalit. Prakash and Mukesh are opposite to each other. Who is sitting opposite to priti ?

- A Prakash
- B Deepa
- C Pankaj
- D Lalit

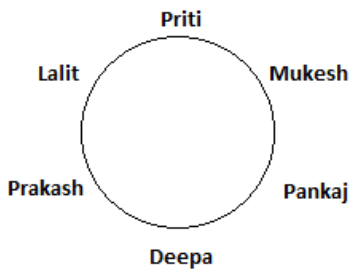
Answer: B

Explanation:

The data given to us is:

Deepa is between Prakash and Pankaj. Priti is between Mukesh and Lalit. Prakash and Mukesh are opposite to each other.

This can be interpreted in diagrammatic form as:



Therefore, Deepa is sitting opposite to Priti.

Question 51

In each of the following questions two statements are given and these statements are followed by two conclusions numbered (A) and (B). You have to take the given two statements to be true even if they seem to be at variance from commonly known facts. Read the conclusions and then decide which of the given conclusion logically follows from the two given statements, disregarding commonly known facts.

Statements: Some mangoes are yellow. Some tixo are mangoes.

Conclusions: A. Some mangoes are green.

B. Tixo is yellow.

- A Only (A) conclusion follows
- B Only (B) conclusion follows
- C Either (A) or (B) follows
- D Neither (A) nor (B) follows

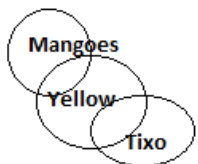
Answer: D

Explanation:

The data given to us:

Statements: Some mangoes are yellow. Some tixo are mangoes.

This can be interpreted as:



Conclusions: A. Some mangoes are green which is a wrong conclusion

B. Tixo is yellow which is again a wrong conclusion.

Neither I or II follow.

Question 52

A, D, H, M, ?, Z

- A T
- B G
- C N
- D S

Answer: D

Explanation:

Here, there are two letters between A and D. There are three letters between D and H. There are four letters between H and M. Continuing with this trend, there will be five letters between M and next letter. Therefore, the next letter is S. Hence, the correct option is D.

Question 53

b e d f ? h j ? l

- A i m
- B m i
- C i n
- D j m

Answer: A

Explanation:

Here two distinct patterns are followed,
1. After the first letter, we write third letter to the right.
2. For the next letter, we write the first letter to the left of the given letter.
Hence, letter succeeding 'f' will be 'i'.
Also, letter succeeding 'j' will be 'm'.
Therefore, the correct option is option A.

Question 54

Choose the word which is different from the rest.

- A Chicken
- B Snake
- C Swan
- D Crocodile

Answer: C

Explanation:

Except Swan, no other animal/bird/reptile can fly.
Therefore, the odd one out is Swan.
The correct option is option A.

Question 55

Arrange the words given below in a meaningful sequence.

- 1 Key
- 2 Door
- 3 Lock
- 4 Room

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

Answer: B

Explanation:

Here Key, Lock, Door and Room is the logical sequence of the given words.

So the correct sequence will be 1, 3, 2, 4.

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English

Instructions

For the following questions answer them individually

Question 56

Find out which part of sentence has an error and the number of that part is your answer. If a sentence is free from errors, your answer is (4) i.e., No error

Last week's sharp hike in the wholesale price of beef (a)/ is a strong indication (b)/ higher meat cost to come. (c)/ No error (d)

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

Answer: C

Explanation:

There is grammatical error is in part C of the sentence.

The preposition 'of' is missing.

Hence, the correct option is option C.

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Question 57

Choose the one which best express the meaning of the word.

"Lurid"

- A happy
- B abundant
- C bright
- D shocking

Answer: D

Explanation:

Lurid means something which is horrifying or shocking.
Eg. The accident was described in lurid detail
Therefore, the correct option is option D.

Question 58

Fill in the blank:

As Shyam _____ retirement, he became more intelligent and active.

- A awarded
- B withdrew
- C derived
- D neared

Answer: D

Explanation:

Here, 'neared' suits the context well.
Therefore, the correct option is option D.

Question 59

Out of these four choices, select the word which you consider the most appropriate for the blank space.
All attempts to revive the finishing industry were _____ failure

- A Foredoomed to
- B heading at
- C predicated for
- D estimated to

Answer: A

Explanation:

Here, 'foredoomed to' suits the context well.
It means 'predicted to'.
Therefore the correct option is option A.

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Question 60

Out of the four alternatives suggested, select the one which best express the same sentence in passive/Active Voice.
We must respect the elders.

- A The elders deserve respect
- B The elders must be respected
- C The elders must be respected by us
- D Respect the elders we must

Answer: B

Explanation:

Here, 'We' is subject while 'elders' is the object.
Therefore, to convert to passive voice the object will have to take active role.
Hence, the sentence in passive voice would read as:
The elders must be respected.
Therefore, the correct option is option B.

Question 61

Out of four alternatives given below, choose the one which can be substituted for the given words/sentences. To take secretly in small quantities.

- A Robbery
- B Pilferage
- C Theft
- D Defalcation

Answer: B

Explanation:

Pilferage means theft of the parts of the content or to steal in small quantities.
Therefore, the correct option is option B.

Question 62

Below are given alternatives to the bold part at (a), (b) and (c) which may improve the sentence. Choose the correct alternative. In case no improvement is needed, your answer is (d). "Audacity" is the mother of invention.

- A Tenacity
- B Necessity
- C Paucity
- D No improvement

Answer: B

Explanation:

The popular proverb is 'Necessity is the mother of invention.'
Therefore, the correct answer is 'necessity' i.e option B.

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Question 63

Find the odd man out from the given options.

- A Blackjack
- B Flash
- C Roulette
- D Bridge

Answer: B

Explanation:

Except flash, all others i.e Blackjack, roulette, bridge are casino games. Therefore, the odd man out is 'flash'. The correct option is option B.

Question 64

Choose the pair that best expresses the relationship: Dentist: Teeth::

- A Paleontologist: Monuments
- B Dermatologist: Skin
- C Astrologist: Past
- D Genealogist: Genes

Answer: B

Explanation:

Dentist deals with the problems associated with teeth. Similarly, dermatologist deals with problems associated with skin. Therefore, the correct option is option B.

Question 65

Synonym for:
"Credence" is

- A corrupt
- B incredible
- C virtue
- D belief

Answer: D

Explanation:

Credence means belief or trust or mental acceptance of a claim. Therefore, the correct option is option D.

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Question 66

Choose the one which can be substituted for the given words/sentence.
An established principle of practical wisdom

- A Marxism
- B Maxim
- C Neologism
- D Platonism

Answer: B

Explanation:

Maxim is closely related to proverb.
It also means a self evident axiom or expression of a general principle or rule.
Therefore, option B is correct.

Question 67

Antonym for "Garrulous" is

- A loquacious
- B talkative
- C quiet
- D weary

Answer: C

Explanation:

Garrulous means excessively talkative.
The opposite of garrulous is quiet.
Therefore, the correct option is option C.

Question 68

Fill in the blank:

At the world's finest educational institutes, only students with the _____ to succeed are selected.

- A luck
- B drive
- C resources
- D experience

Answer: B

Explanation:

Here, the word which suits the context most is 'drive'.
Drive means a strong motivation.
Therefore, the correct option is option B.

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Question 69

Arrange the four lines given below in logical sequence.

1. I decided to ask her a direct question
2. "You've already told me that sybil came to talk to you about the dinner on the day she dis-appeared. Was there anything else?"
3. For a moment, I thought Orva wouldn't answer
4. Then she seemed to make a decision.

- A 1342
- B 2143
- C 3142
- D 1234

Answer: D

Explanation:

The lines can be arranged as:

1. I decided to ask her a direct question
2. "You've already told me that sybil came to talk to you about the dinner on the day she dis-appeared. Was there anything else?"
3. For a moment, I thought Orva wouldn't answer
4. Then she seemed to make a decision.

Therefore, the correct option is option D.

Question 70

The following sentence has been split into four parts and the parts have been given in jumbled form. Choose the best order from among the four options as P, Q, R and S which produces the original sentence.

P: any fragrance

Q: and more penetrating

R: I have never come across

S: that is no more beautiful

- A R, P, S, Q
- B Q, P, S, R
- C S, R, P, Q
- D Q, S, P, R

Answer: A

Explanation:

The parts can be arranged to form a sensible sentence as:

I have never come across any fragrance that is no more beautiful and more penetrating.

Therefore, the correct order is:

R, P, Q, S

Hence, the correct option is option A.

Question 71

Choose the word which is the exact opposite of the given word.

HYPOCRITICAL

- A Gentle
- B Sincere
- C Amiable
- D Dependable

Answer: B

Explanation:

Hypocritical means pretense or insincere.
Opposite of hypocritical is sincere.
Therefore, the correct option is option B.

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Question 72

Arrange the four lines given below in a logical sequence:

1. Joe had trouble falling asleep, and once asleep, he went from one dream to another
2. The phone rang
3. He was showing a house to a young couple
4. he looked at it but could not find it.

- A 1432
- B 1324
- C 2431
- D 3214

Answer: B

Explanation:

After arranging the phrases in logical order we get,

1. Joe had trouble falling asleep, and once asleep, he went from one dream to another
3. He was showing a house to a young couple
2. The phone rang
4. he looked at it but could not find it.

Hence, the correct option is option B.

Question 73

Analogy for:

SKATE: RINK::

- A park: bench
- B play: stadium
- C paint: picture
- D build: column

Answer: B

Explanation:

Here the relation between skate and rink is that skating is done in rink.
A game is played in stadium. Hence, the pair stadium pair is most close in relation.
Therefore, the correct option is option B.

Question 74

Find the odd man out from the options.

- A Trappings
- B Orifice
- C Egress
- D Vent

Answer: A

Explanation:

Trappings means clothing or equipment.

Orifice means a slit or small opening.

Egress also means a small opening or exit.

Vent is opening for air.

Therefore, the correct option is option A as it is the only one which is different in meaning.

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Question 75

Choose the word which is not a synonym for the given word:

Spray

- A squirt
- B spurt
- C gush
- D jewry

Answer: D

Explanation:

Here, squirt, spurt, and gush mean same i.e to spray.

Therefore, the odd one out is 'jewry'.

Hence, the correct option is option D.

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Numerical

Instructions

For the following questions answer them individually

Question 76

For a sphere of radius 10 cm, the numerical value of the surface area is how many per cent of the numerical value of its volume ?

- A 24%

B 26.5%

C 40%

D 45%

Answer: C

Explanation:

Now, surface area of sphere = $4 \times 3.142 \times r^2 = 4 \times 3.142 \times 10^2 = 1256.8$

Now, volume of the sphere = $3.142 \times r^3 = 3142$

The percent of the numerical value of the surface area of the numerical value of its volume = $(1256.8/3142) \times 100 = 40$

Therefore, the correct option is option C

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Question 77

Ram bought 1600 eggs at Rs. 3.75 per dozen. He sold 900 of them at 2 for Re.1 and the remaining at 5 for Rs. 2. His gain per cent is:

A 40%

B 45%

C 42%

D 46%

Answer: D

Explanation:

Total cost price of all 1600 eggs = $(1600/12) \times 3.75 = 500$

Now, 900 eggs were sold for 2 eggs for Re 1 or 1 egg for Rs.0.6. Hence selling price of 900 eggs = $0.5 \times 900 = 450$

Also, remaining 700 eggs were sold for 5 eggs at Rs. 2 or 1 egg at Rs.0.4, their selling price = $700 \times 0.4 = 280$

Now, total selling price for 1600 eggs = $450 + 280 = 730$

Percent Profit = $\frac{730 - 500}{500} = 46$

Therefore, the correct option is option D.

Question 78

The difference between the compound interest and simple interest for the amount Rs. 5,000 in 2 years is Rs. 32. The rate of interest is

A 5%

B 8%

C 10%

D 12%

Answer: B

Explanation:

Now, Compound interest accumulated over a period of 2 years = $5000 \times (1+x)^2 - 5000$

Simple interest accumulated = $5000 \times x \times 2$

The difference between the two is 32

$5000 \times (1+x)^2 - 5000 - 5000 \times x \times 2 = 32$

Solving we get the value of $x = 0.08$

Therefore, the correct option is option B.

Question 79

A plane left 30 minutes later than the scheduled time and in order to reach the destination 1500 km away in time, it had to increase the speed by 250 km/hr from the usual speed. Its usual speed is:

- A 720 km/hr
- B 730 km/hr
- C 740 km/hr
- D 750 km/hr

Answer: D

Explanation:

The plane left half an hour late i.e it had to cover the same distance in half hour less time.

Now, we know that time = distance/speed

Let the original speed of the plane be x.

Now, $(1500/x - 1500/(x+250)) = 0.5$

Solving we get $x = 750$ km/hr.

Hence, the correct answer is option D.

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Question 80

The ratio of the number of students studying in schools A, B and C is 5: 6: 8. If the number of students in each of the schools is increased by 30% 25% and 25% respectively, what will be the new ratio of the students in schools A, B and C?

- A 14: 15: 20
- B 13: 15: 20
- C 13: 14: 15
- D 15: 17: 19

Answer: B

Explanation:

The ratio of the number of students studying in schools A, B and C = 5: 6: 8.

Now, if the number of students in each of the schools is increased by 30% 25% and 25% respectively, the ratio = $5 \times 1.3 : 6 \times 1.25 : 8 \times 1.25$

$$= 6.5 : 7.5 : 10$$

$$= 13 : 15 : 20$$

Hence, the correct option is option B.

Question 81

A circle and a rectangle have the same perimeter. The sides of the rectangle are 18 cm and 26 cm. What is the area of the circle ?

- A 88 cm^2
- B 154 cm^2
- C 616 cm^2
- D 1250 cm^2

Answer: C

Explanation:

The circumference of the circle = Circumference of the rectangle
 $= 2(18+26) = 88$

Now, $2 \times (22/7) \times r = 88$

$r = 14$

Area of circle = $(22/7) \times 14 \times 14 = 616 \text{ cm}^2$

Therefore, the correct option is option C.

Question 82

How many different triangles are there for which the lengths of the sides are 3, 8, and n, where n is an integer and $3 < n < 8$

- A Two
- B Three
- C Four
- D Five

Answer: A

Explanation:

The integers between 3 and 8 which can be sides of triangle are 4,5,6,7.

Now, the sum of two sides of triangle cannot be greater than the third.

Hence, only 4,5 can be the sides of the triangle.

Therefore, the correct option is option A.

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Question 83

The sum of one-half, one-third and one-fourth of a number exceeds the number by 12. The number is:

- A 144
- B 154
- C 90
- D 174

Answer: A

Explanation:

Let the number be x.

Now, $((x/4) + (x/3) + (x/2)) - x = 12$

$13x/12 - x = 12$

$x = 144$

Therefore, the correct option is option A.

Question 84

The average score of a class of boys and girls in an examination is A. The ratio of boys and girls in the class is 3: 1. If the average score of the boys is (A + 1), the average score of the girls is:

- A (A - 1)

B (A - 3)

C (A + 1)

D (A + 3)

Answer: B

Explanation:

Let the common multiple be x.

There are x girls and 3x boys.

Now, let girls score be N.

$$\frac{N*x + (A+1)*3x}{4x} = A$$

$$N = 4A - 3(A+1)$$

$$= A - 3$$

Hence, the average score of girls is A-3

Question 85

Two trains running in opposite directions cross a man standing on the platform in 27 seconds and 17 seconds respectively and they cross each other in 23 seconds. The ratio of their speed is:

A 1: 3

B 3: 2

C 3: 4

D None of these

Answer: D

Explanation:

Let the lengths of train be x and y.

Now their speed is (x/27) and (y/17)

Also, they cross each other in 23 seconds.

$$(x/27) + (y/17) = (x+y)/23$$

$$\text{We get } (4/621)x = (6/291)y$$

$$(x/27)*(4/23) = (102/291)*(y/17)$$

$$(x/27)/(y/17) = (102/291)*(23/4)$$

$$\text{Ratio of speed} = (391/194)$$

Option D is the correct answer.

Question 86

If the sum of two numbers is 42 and their product is 437, then the absolute difference between the number is:

A 3

B 4

C 5

D 7

Answer: B

Explanation:

Let the two numbers be x and y.

$$\text{Now, } x+y = 42$$

$$x*y = 437$$

$$x(42-x) = 437$$

$$42x - x^2 = 437$$

$$x^2 - 42x + 437 = 0$$

We get $x = 23$ or $x = 19$

i.e. $y = 19$ or $y = 23$

Hence, the two numbers are 23 and 19.

Their difference = $23 - 19 = 4$

Therefore, the correct option is option B.

Question 87

A seller allows a discount of 5% on a watch . If he allows a discount of 7%, he earns Rs. 15 less in the profit What is the marked price ?

A Rs. 697.50

B Rs. 712.50

C Rs. 750

D Rs. 817.50

Answer: C

Explanation:

We know that,

Profit = Selling Price - Cost Price

Now, let the marked price be x

As per given condition,

$$(0.95x - \text{Cost Price}) - (0.93x - \text{Cost Price}) = 15$$

$$0.02x = 15$$

$$x = 750$$

Therefore, the correct option is option C.

Question 88

If the manufacturer gains 10%, the wholesale dealer 15% and the retailer 25%, then the cost of production of an article whose retail price is Rs. 1265, is:

A Rs. 632.50

B Rs. 800

C Rs. 814

D Rs. 834.34

Answer: B

Explanation:

Let x be the production cost of the article.

$$\text{Now, } 1.1 * 1.15 * 1.25 * x = 1265$$

$$x = (1265 / 1.1 * 1.15 * 1.25)$$

$$= 800$$

Therefore, the production cost of article is 800

Therefore, option B is correct.

Question 89

If A: B = 1: 3, B: C = 5: 7, C: D = 9: 7 then A: B: C: D = ?

- A 15: 45: 63: 49
- B 15: 49: 45: 63
- C 45: 15: 63: 49
- D 49: 15: 45: 63

Answer: A

Explanation:

Now,

$$A:B = 1:3 = 15:45$$

$$B:C = 5:7 = 45:63$$

$$C:D = 9:7 = 63:49$$

Now, A:B:C:D = 15:45:63:49

Therefore, the correct option is option A.

Question 90

The value of k for which $x - 1$ is a factor of $4x^2 + 3x^2 - 4x + k$, is

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

Answer: D

Explanation:

Now, $x-1$ is a factor of $4x^2 + 3x^2 - 4x + k$ which means $x=1$ satisfies the equation.

$$\text{Hence, } 4(1)^2 + 3(1)^2 - 4(1) + k = 0$$

which gives $3+k = 0$ i.e $k = -3$

Therefore, the correct option is option D.

Question 91

Fresh grapes contain 80% water while dry grapes contain 10% water. If the weight of dry grapes is 250 kg, what was its total weight when it was fresh ?

- A 1000 kg
- B 1100 kg
- C 1125 kg
- D 1225 kg

Answer: D

Explanation:

Dry grapes contain 10% water.

Weight of dry grapes = 250kg

Therefore, weight of water part = 10% of 250 =kg

Weight of pulp part = 225 kg

Now, for fresh grapes to contain 80% water, 20% is pulp part.

$$20\% \text{ of } x = 225$$

$$x = 1225 \text{ kg}$$

Therefore, the weight of grapes is = 1225kg
Option D is correct answer.

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Question 92

Each inch on ruler A is marked in equal $\frac{1}{8}$ -inch units, and each inch on ruler B is marked in equal $\frac{1}{12}$ -inch units. When ruler A is used, a side of triangle measures 12 of the $\frac{1}{8}$ -inch units. When ruler B is used, how many $\frac{1}{12}$ -inch units will the same side measure ?

- A 8
- B 12
- C 18
- D 20

Answer: A

Explanation:

Side of triangle = 12 of $(\frac{1}{8})$ th units = $12 * (\frac{1}{8}) = 1.5$ inches.

Now, x of $(\frac{1}{12})$ th units = 1.5 inches

Hence, x = 18.

Therefore, the correct answer is option A.

Question 93

The cost of making an article is divided between materials, labour and overheads in the ratio of 3:4:1. If the material cost Rs. 234, then the labour cost is:

- A Rs. 176
- B Rs. 312
- C Rs. 78
- D Rs. 390

Answer: B

Explanation:

Let the common multiple be x.

Now, the materials cost is 234

Hence, $(\frac{3}{8})x = 234$ i.e x = 624

Now, cost of labour = $(\frac{4}{8})x = (\frac{1}{2}) * 624 = 312$

Therefore, the correct option is option B.

Question 94

A rectangular courtyard 3.78 m long and 5.25 m broad is to be paved exactly with square tiles, all of the same size. The minimum number of such tiles is:

- A 430
- B 440
- C 450

D 460

Answer: C

Explanation:

Here, the HCF of 3.78 and 5.25 is 0.21.

Therefore, .21 will constitute as side of each square.

Number of square = $(3.78 * 5.25)/(0.21*0.21) = 450$

Hence, the correct option is option C.

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Question 95

Some students planned a picnic. The budget for food was Rs.500. But, 5 of them failed to go and thus the cost of food for each member increased by Rs 5. How many students attended the picnic ?

A 15

B 20

C 25

D 30

Answer: B

Explanation:

Let the number of students be n and cost of food per student be x.

Now, $500/n = x$

Also, later on cost increases by 5 when 5 students don't come.

$500/(n-5) = x+5$

$500/(n-5) = 500/n + 5$

Solving we get

$n = 25$

Hence, number of students attending picnic was 20.

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