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NICL Administrative Officer (AO) 2013 Question Paper Solved

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Instructions

For the following questions answer them individually

Question 1

Which of the following is not a synonym of the word Bastille ?

- A fortress
- B prison
- C jail
- D fop
 - Answer: D

Explanation:

Bastille means prison. It is also synonmous with jail and fortress. Fop means someone who is vain about his clothes. Therefore, the odd one out is fop. Hence, correct option is option D.

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Question 2

Select the one which is best express the same sentence in Passive Voice. They drew a circle in the morning.

- A A circle was being drawn by them in the morning
- B A circle was drawn by them in the morning
- C In the morning a circle have been drawn by them
- D A circle has been drawing since morning

Answer: B

Explanation:

Here, in active voice 'they' is subject and 'circle' is object. Hence, circle will get priority in passive voice. Therefore, passive voice is: A circle was drawn by them in the morning.

The correct option is option B.

Question 3

Fill in the blanks: The destiny has destined him _____ a higher post than he now holds.

- A for
- B to
- **C** on



D upon

Answer: A

Explanation:

The preposition which is correct and apppropriate is 'for'. 'To', 'on' and 'upon' are grammatically incorrect to use. Therefore, the correct option is option A.

Question 4

Find the odd man out from the options:

- A Tornado
- B Twister
- **C** Cyclone
- D Volcano
 - Answer: D

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Question 5

Analogy for ISLAND : ARCHIPELAGO ::

- A shoulder : arm
- B stomach : intestine
- c shoe : laces
- D toe : foot
 - Answer: D

Explanation:

Archipelago means a group of islands. Island thus forms a part of archipelago. Similarly, toe is part of foot. Therefore, the correct pair having similar relationship is foot-toe. Hence, the correct option is option D.

Question 6

Choose the one which can be substituted for the given word/ sentence. A figure of speech by which a thing is spoken of as being that which it only resembles

- A Metaphor
- B Simile
- **C** Personification
- **D** Alliteration

Answer: B

Re

Explanation:

Simile a figure of speech involving the comparison of one thing with another thing of a different kind. In simile, the thing is spoken as something which it only resembles. Therefore, the correct option is option B.

Question 7

Analogy for NIGHTLY : DAILY ::

- A nocturnal : diurnal
- B black : white
- C sunset : sunrise
- D opalescent : iridescent

Answer: A



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Question 8

In the following question, four alternatives are given for idiom/phrase. Choose the answer which best express the meaning of the given idiom/phrase:

To burn a hole in the pocket

- A to steal from someone's pocket
- B to destroy other's belongings
- C to be very miserly
- D money that is spent quickly

Answer: D

Explanation:

'To burn a hole in pocket' means' to spend money in a quick and excessive manner'. It's an idiom used to denote purchase of something which is expensive. Therefore, the correct option is option D.

Question 9

Antonym for "Consanguinity" is

- A affinity
- B corpulent
- C estrangement
- D anarchy
 - Answer: C

Explanation:

Consanguinity means having close affinity or relation. The opposite of this would be 'estrangement'. Therefore, the correct option is option C.



In the following questions, the 1st and the last part of the sentence are numbered 1 and 6. The rest of sentence is split into four parts and named P, Q, R and S. These four parts are not given in their proper order. Read the sentence and find out which of the four combinations is correct. Then find the correct answer.

- 1. And then word
- P. came from inside
- Q. meet the released civilians
- R. that after all
- S. the press could
- 6. but fleetingly
- A RSQP
- B SRQP
- C PRSQ
- D RPQS
 - Answer: C

Explanation:

The parts can be arranged to form meaningful sentence as:

- 1. And then word
- P. came from inside
- R. that after all
- S. the press could
- Q. meet the released civilians
- 6. but fleetingly

The correct order is PRSQ

Therefore, the correct option is option C.

Question 11

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In the following questions, the 1st and the last parts of the sentence are numbered and 6. The rest of the sentence is split into four parts and named P, Q, R and S. These four parts are not given in their proper order. Read the sentence and find out which of the four combinations is correct. Then find the correct answer.

- 1. Can any one
- P. falsehood triumph
- Q. and let
- R. for a long time
- S. suppress truth
- 6. permanently?
- A RQSP
- B QPRS
- c SRQP
- D PRQS

Answer: C

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



Can any one
 S. suppress truth
 R. for a long time
 Q. and let
 P. falsehood triumph
 permanently?
 Therefore, the order is S-R-Q-P
 Hence, the correct option is option C.

Question 12

In the question given below, a part of sentence is printed in bold. Below are given alternatives to the bold part which may improve the sentence. Choose the correct alternative. In case no improvement is needed, option (d) is answer. We were "not" the wiser for all this effort to explain the case to us.

- A none
- B Neither
- **C** nevertheless
- D No improvement

Answer: 0

Question 13

In the following question, four alternatives are given for the idiom/phrases. Choose the answer which best expresses the meaning of the given idiom/phrase:

Elbow room

- A opportunity for freedom of action
- B special room for the guest
- C to give enough space to move or work in
- D to add a new room to the house

Answer: C

Explanation:

'Elbow room' means to give sufficient room or space to move or to make way for Therefore, the correct option is option C

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Question 14

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

- A Animated
- **B** Bewildered
- C Enraptured
- D Illful

Answer: C





Explanation:

Ecstatic means extremely delighted or filled with joy.

Animated means lively. Bewildered means surprised. Enraptured means delighted. Illful means having bad intentions. Therefore, ecstatic is synonymous with enraptured.

Hence, the correct option is option C.

nence, the correct option is option

Question 15

Find the correct word for expression. Instrument for testing the quality of milk

- A Altimeter
- B Lactometer
- **C** Barometer
- D Chronometer
 - Answer: B

Explanation:

Instrument used for testing the quality of milk is lactometer. Therefore, the correct option is option B.

Question 16

In the following question, four alternatives are given for the idiom/phrase. Choose the answer which best expresses the meaning of the given idiom/phrase.

To play fast and loose

- A to deceive someone
- B to be playful
- C say one thing and do another
- D to be efficient

Answer: B

Question 17

Analogy for SCALE : TONE ::

- A physician : medicine
- B wave : amplitude
- **C** spectrum : colour
- D scanty : plenty

Answer: C

Question 18

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



- A scurf
- B silver
- C chip
- **D** bunting

Answer: D

Explanation:

Flake means chips of surface part of something. Scurf means chip or flake.Silver also in one of its meaning refer to chips. The odd one out is 'bunting'. Therefore, the correct option is option D

Question 19

Analogy for: NECROMANCER : WITCHCRAFT::

- A puritan : excellence
- B gourmand : starvation
- **C** swindler : knavery
- D lawyer : graft

Answer: C

Question 20

In the following questions, sentences are given with blanks to be filled in with an appropriate words. Four alternatives are suggested for each question. Choose the correct alternative out of the four. My window looks _____ garden.

- A upon
- B out on
- C in
- D at

Answer: B

Explanation:

The correct preposition to be used is 'out on'. upon, in and at do not make grammatical sense. Therefore, the correct option is option B.

Question 21

Choose the word which is most opposite in meaning to "bold" word: It was a very "dreary" day.

- A drab
- B dangerous
- c beautiful



p bright

Answer: D

Explanation:

Dreary means dull or boring or dismal. Therefore, the opposite of dreary will be bright. Hence, the correct option is option D.

Question 22

In the question given below, a part of sentence is italicised and printed in "bold". Below are given alternatives to the italicised part which may improve the sentence. Choose the correct alternatives. In case no improvement is needed, option (d) is a answer. I would have waited for you at the station if "I knew" that you would come.

- A had known
- B was knowing
- c have known
- D No improvement

Answer: A

Explanation:

Here, the simple past tense has been wrongly used instead of past perfect tense. The correct sentence would read as:

I would have waited for you at the station if I had known that you would come.

Therefore, the correct option is option A.

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Question 23

Choose the word which is most nearly the same in meaning to the "bold" word. He is very "impulsive" in everything he does.

- A deliberate
- B wary
- C rash
- D impressive

Answer: C

Explanation:

Impulsive means something which is done hastily or in a rush. The word resembles it closely in meaning is 'rash'. Therefore, the correct option is option C.

Question 24

Synonym for: Aureate is

A brilliant

В	gilded		
С	resplendent		
D	archaic		
	Answer: B		
Explanation: Aureate means cover something with gold. Gilded also means same. Therefore synonym of aureate is gilded.			
Qu	estion 25		
	oose the alternative which best expresses the meaning of the idiom/phrase. t the eleventh hour"		
A	Too late		
В	too early		
С	immediately		
D	at the last moment		

Answer: D

Explanation:

'At the eleventh hour' means something which is done at the last moment. The phrase refers to doing something at last just before a deadline. Therefore, the correct option is option D.

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Instructions

For the following questions answer them individually

Question 26

Find that pair of numbers which is not related to the other three pairs of numbers due to lack of common property.

A 47,59

- **B** 42,29
- **C** 57,69
- **D** 73,61
 - Answer: B

Explanation:

Except for 42,29 all other numbers have difference between them as 12.

Thedifference between 42 and 29 is 13.

Therefore, the odd pair is 42,29.

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Question 27

In each of the following questions find the odd word from the given responses.

- A Mouth Organ
- B Electric Guitar
- C Keyboard
- D Sonata
 - Answer: D

Explanation:

Sonata is a type of music.

Others except Sonata are musical instruments.

Therefore, the odd man out is Sonata.

The correct option is option D.

Question 28

Find the odd one out.

- A Cathedral
- B Mosque
- C Monastery
- **D** Temple
 - Answer: C

Explanation:

Except, monastery all others are places of worship. Monastery is a housing complex of the numns and monks. Here, the odd man out is Monastery. Therefore, the correct option is option C.

Question 29

'D' is mother-in-law of 'M' who is sister-in-law of 'A'. 'P' is father of 'Q' the only brother of 'A'. How is 'D' related to 'A'?

- A Mother-in-law
- B Aunt
- **C** Mother
- D Wife Answer: C

Explanation:

D is mother-in-law of M. M is sister-in-law of A.





Therefore, we can conclude that D is mother of A. Also, this is verified as Q is only brother of A. Therefore, option C is the correct option.

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Question 30

Unscrambled the letters in the given word and find the odd one

- A PLPAE
- **B** RAORCT
- C AUVAG
- D NOONI
 - Answer: D

Explanation:

First, unscrambling the letters, we get PLPAE -APPLE RAORCT - CARROT AUVAG - GUAVA NOONI - ONION

Now, except onion all others are fruits. Hence, the odd man out is onion. The correct option is option D.

Question 31

Alphabets from A to Z ar coded into numbers 1 to 26. A word is coded by replacing its Alphabets with number of letters in the original word as an additional numbers to the right e.g., CAT is coded as 31203, ABC as 1233 and XYZ as 2425263. The coding may result in non-unique decoding.

Which of the following codes is guaranteed to have unique decoding ?

- **A** 12133
- **B** 15203
- **c** 1213214
- D None of these

Answer: B

Question 32

Find the odd one out

- A Pistol
- B Sword
- C Gun
- D Rifle

Answer: B



Explanation:

Except sword, all others i.e gun, pistol and rifle use bulets as ammunition. Therefore, the odd one out is sword. The correct option is option B.

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Question 33

There are five different houses, A to E, in a row. A is to the right of B and E is to the left of C and right of A. B is to the right of D.A is to the left of E. Which of the houses is in the middle ?

Α	А	
В	E	
С	D	
D	С	
4	Answer: A	and the second s

Explanation:

The data given to us is:

A is to the right of B and E is to the left of C and right of A. B is to the right of D.A is to the left of E.

This can be represented in diagrammatic form as:

D	В	Α	E	C
_	_		_	_

Therefore, A is in the middle.

The correct option is option A.

Question 34

Find the odd letters from the given alternatives:

- A PQXZ
- B BCQN
- C ABDF
- D MNPR

Answer: B

Explanation:

Except BCQN, in all the groups of letters, th ethird and fourth letter only have one letter between them in alphabetical series. However, in BCQN the third and fourth letter have two letters in between them as per alphabetical series. Therefore, the correct option is BCQN i.e option B

Question 35

A girl introduced a boy as the son of the daughter of the father of her uncle. The boy is girl's

- A Uncle
- B Nephew
- C Brother



D Son

Answer: C

Explanation:

Analysing the statement, Father of her uncle means grandfather of the girl. Now, daughter of grandfather of the girl will be girl's aunt or mother. Son of her aunt or mother will be girl's brother. Therefore, the correct option is option C.

Question 36

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A squirrel starts climbing up a tree at the speed of 6 metres per minute but after each 6 metre it slips down 4 metres. It will be able to reach a top of 120 metre high in:

- A 20 minutes
- **B** 60 minutes
- C 58 minutes
- **D** 1^{1}_{2} hours
 - Answer: C

Explanation:

The aggregate distance covered by squirrel in 1 minute = 6-4 = 2 metres.

So, at the end of 1 minute squirrel will climb 2 metres, at the end of 2 minutes squirrel will climb 4 metres and so on.

At the end of the 57 minute squirrel will have climbed 114 metres.

Now, at the 58th minute it will advance 6 metres more and reach the top.

Therefore, the correct option is option C.

Question 37

If in a certain language KINDLE is coded as ELDNIK, how is EXOTIC coded in that code ?

- A EOXITC
- B EXOTLC
- C CITOXE
- D COXITE
 - Answer: C

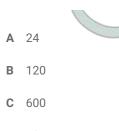
Explanation:

The code is obtained by reversing the letters. Now, reversing the word EXOTIC, we get CITOXE. Therefore, the code for EXOTIC is CITOXE.

The correct option is option C.

Question 38

There are six persons ------ A, B, C, D, E and F. We have to rank them in such a way that B gets first rank and E gets the last rank. In how many ways this could be done ?



- **D** 48
 - Answer: A

Explanation:

The position of B and E is fixed as first and last. Now, there are 4 people A, C, D and F. They can be arranged in 4! unique ways in 4 places. Therefore the number of ways \$! = 24 ways. Hence, the correct option is option A.



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Question 39

Influenza: Virus: Typhoid:?

- A Bacillus
- B Parasite
- **C** Protozoa
- D Bacteria
 - Answer: D

Explanation:

Here, the coorelation is between the disease and it's vector. Influenza's vector is virus. Typhoid's vector is bacteria. Therefore, the correct option is option D.

Question 40

If '-' stands for division, '+' stands for subtraction, ' \div ' stands for multiplication, ' \times ' stands for addition, then which one of the following equations is correct ?

- **A** $70 2 + 4 \div 5 \times 6 = 44$
- **B** $70 2 + 4 \div 5 \times 6 = 21$
- **c** $70 2 + 4 \div 5 \times 6 = 341$
- **D** $70 2 + 4 \div 5 \times 6 = 36$

Answer: B

Explanation: We have to analyse each and every expression with the correct symbols, $70 - 2 + 4 \div 5 \times 6$ which is actually $70 \div 2 - 4 \times 5 + 6$ Now, solving $70 \div 2 - 4 \times 5 + 6 = 35 \cdot 20 + 6 = 21$ Therefore, the correct option is option B.

In the following question four pairs of words are given out of which words in three pairs are related in the same way. Find the pair which is differently related ?

- A Lyric, Ode
- B Sky, Earth
- C Head, Legs
- D Newspaper, Journalist
 - Answer: D



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Question 42

Artists are generally whimsical. Some of them are frustrated. Frustrated people are prone to be drug addicts. Based on these statements which of the following conclusion is true?

- A All frustrated people are drug addicts
- B Some artists may be drug addicts
- C All drug addicts are artists
- D Frustrated people are whimsical

Answer: B

Explanation:

Artists are generally whimsical. Some of them are frustrated. Frustrated people are prone to be drug addicts. Now, frustrated people are prone to be drug addicts. And some of the artists are frustrated.

Therefore, we can conclude that some of the artists are drug addicts.

Therefore, the correct option is option B.

Question 43

How many 7's are there in the following series which are preceded by 6, which is not preceded by 8 ? 8 7 6 7 8 6 7 5 6 7 9 7 6 1 6 7 7 6 8 8 6 9 7 6 8 7

- A Two
- **B** Nil
- C One
- D Three

Answer: D

Explanation:

There are 3 such 7 preceeded by which is not preceeded by 8. 8 **767** 8 6 7 **567** 9 7 6 **167** 7 6 8 8 6 9 7 6 8 7 Therefore, the correct option is option D.

A cube is painted on all sides using white and red colours such that opposite faces are painted in different colours. This cube is cut into 27 smaller cubes of equal size.

How many smaller cubes will have only one face coloured ?

- **A** 3
- **B** 6
- **C** 8

_

D 12

Answer: B

Explanation:

On each face there is only one cub whose only one side is exposed outside. The cube has 6 faces and hence there will be 6*1 = 6 cubes whose only one side will be painted. Therefore, the correct option is option B.



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Question 45

(i) Six friends A, B, C, D, E and F are seated in a circle facing each other.
(ii) A is between D and B and F is between C and E
(iii) C is the third to the left of B
Which of the following is the position of A in relation to F ?

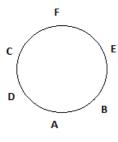
- A Second to the left
- B Second to the right
- **C** third to the right
- D Fourth to the left

Answer: D

Explanation:

The data given to us is: (i) Six friends A, B, C, D, E and F are seated in a circle facing each other (ii) A is between D and B and F is between C and E (iii) C is the third to the left of B

Now, we can represent this in diagrammatic form as:



Hence, A is fourth to the left of A. Therefore, option D is the correct answer.

Two items or words bear a particular relation with each other. Third item bears the same relation (which first and second bear) with one of the answer choices. The candidates are to pick up that word or item.

"Degree Relationship" Warm: Hot::

- A Glue: Paste
- A Olde. I dole
- B Bright: Genius
- C Climate: Weather
- D Leaders: People

Answer: B

Explanation:

The words warm and hot have same meaning in general sense. In the given pair of words only bright and genius have the same meaning. Therefore, the correct option is option B.

Question 47

If A is 1, B is 3, C is 5, D is 7, E is 9 and so on how will you spell "BEAT" ?

- **A** 39135
- **B** 13736
- **C** 39139
- **D** 39141

Answer: C

Explanation:

Now, If A is 1, B is 3, C is 5, D is 7, E is 9 and so on...

Going by this logic, we get T as 39

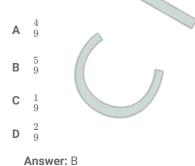
Hence, we can code BEAT as 39139

Therefore, option C is correct option.

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Question 48

A bag contains 2 red marbles, 3 green marbles and 4 blue marbles. A marble is picked at random from the bag. What is the probability that the marble is not a blue marble ?



Explanation:

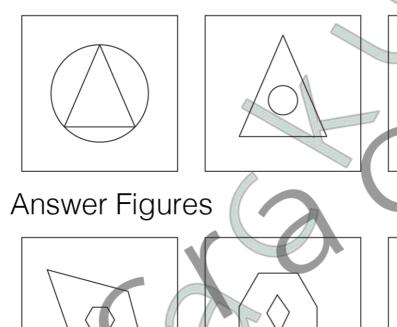
Without blue marbles, there are 2 red marbles and 3 green marbles. Therefore, there are 5 marbles in all to choose the required 1 from. Probability that the marble is ot a blue marble = 5C1/9C1= $\frac{5}{9}$

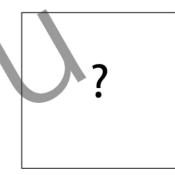
Therefore, the correct option is option B.

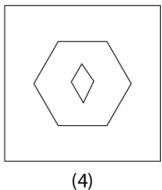
Question 49

Find the missing figure from the given alternatives :

Question Figure







(1)



- **C** 3
- **D** 4
 - Answer: D

Explanation:

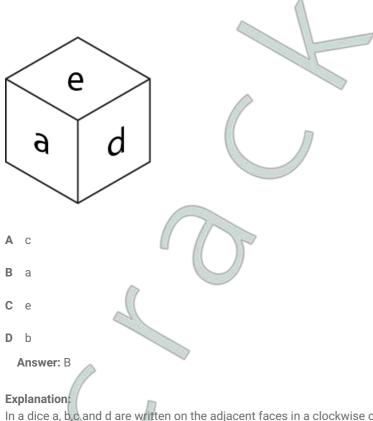
Here, a pattern is followed in the first two figures. The figure which is on the inside becomes the figure which encloses the outside figure in figure 2 of the pattern.

(2)

Therefore, the correct option obtained on following the pattern is option D as the hexagon should enclose the diamond in answer figure. The correct option is option D.

(3)

In a dice a, b,c and d are written on the adjacent faces in a clockwise order and e and f are at the top and bottom of cube. When c is at the top, what will be at the bottom ?



In a dice a, b,c and d are written on the adjacent faces in a clockwise order. Now, on the opposite side of 'a' is 'c'. Therefore, when c is on top, a will be on bottom.

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General Awareness

Instructions

For the following questions answer them individually

Question 51

Souring of milk is due to

- A Protozoa
- B Bacteria
- C Virus
- D Nematode
 - Answer: B

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Question 52

The tropic of Cancer does not pass through

Α	Egypt
В	India
С	Iran
D	Mexico
4	Answer: C
Qu	estion 53
Ac	cording to the Union Budget 2013-2014, tax on royalty and fees for technical services to NRIs has been increased to
A	15%
В	20%
С	25%
D	30%
4	Answer: C
Qu	estion 54
In	which state, ruling Left Front won the Assembly elections for the consecutive fifth term ?
A	Meghalaya
В	Nagaland
С	Tripura
D	None of these
4	Answer: C
Ou	estion 55
	e National anthem was written by and was translated in to English by
Α	Bankim Chandra Chatterji, Aurobindo Ghosh
В	Rabindra Nath Tagore, Aurobindo Ghosh
С	Bankim Chandra Chatterji, Rabindra Nath Tagore
D	the national anthem was originally written in English and was translated later
Е	None of the above
1	Answer: E
Qu	estion 56
Wł	nich continent is called as the "Dark Continent" ?
A	
В	Africa South America
_	

- A Africa
- B South America

[]



Common coal used in our household is

- A Anthracite
- B Bituminous coal
- C Lignite
- D All of these

Answer: B

Question 58

Which of the following is found in largest number ?

- A Fungi
- B Algae
- C Bacteria
- D Insects

Answer: D

Question 59

If all bullets could not be removed from gun shot injury of a man, it may cause poisoning by

- A Mercury
- B Lead
- C Iron

D Arsenic

Answer: B

Question 60

NHRC stands for

- A National Hydro Research Committee
- B National Handicapped Rehabilitation Council
- C National Human Rights Commission
- D None of these Answer: C



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Question 61

World Bank helps countries with loans, for the purpose of

- A Reconstruction and development
- B stimulating private investment
- **C** tackling foreign exchange crises
- D meeting deficits in government budget

Answer: A

Question 62

Who among the following is the author of the book, Sachin Born to Bat-The journey of Cricket's Ultimate Centurion ?

- A Khiladi Ansari
- B Boria Majumdar
- C Kiran Nagarkar
- D Ed Hawkins
- **Question 63**

The Refrigerant 'FREON' is

- A Calcium Terra Fluoride
- B Difluoro Dichloro Methane
- C Fluorspar and Felspar
- D Hydrofluosilicic acid

Answer: B

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Question 64

Tuberculosis is caused by

- A Virus
- B Bacteria
- **C** Protozoa
- D Fungi Answer: B

Question 65

Nicos Anastasiades became the new President of

- A China
- B Ghana
- C Kazakhstan
- D Cyprus Answer: D

The first All India Trade Union Congress (AITUC) was founded in 1920 by-

- A N. M. Joshi
- B Purushottamdas Thakur
- C V. V. Giri
- D Shyama Prasad Mukherji

Answer: A

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Question 67

The position of Indian Railways network in the world is

- A Second
- B Third
- C Fourth
- D Fifth

Answer: A

Question 68

Coconut triangle is located in

- A India
- B Sri Lanka
- C Bangladesh
- D Maldives
- Answer: B

Question 69

Which type of roses are grown in India for Industrial applications ?

- A R Centripetala and Bushra
- B R Damascena Var Bifera

Ro	
s ?	

Rosa Damascena С All (a), (b) and (c) D Answer: C LIC AAO solved previous papers PDF **Question 70** Which of the following countries has Red river delta ? Α Japan Indonesia В С Malaysia Vietnam D Answer: D **Question 71** Which of the following countries has large forest resources ? Α Iran В Turkey Syria С Iraq D Answer: B **Question 72** National Development Council was constituted on August 16, 1950 Α April 1, 1951 В August 6, 1952 С August 16, 1952 D Answer: C LIC ADO solved previous papers PDF **Question 73** The abbreviation list is given below. Pick the wrong one ? OBE -Order of the British Empire Α PSLV- Polar Satellite Launching Vehicle В

c CWD- Cash on Withdrawal

D UPSC- Union People Service Commission

Answer: D

Question 74

The first non-stop air-conditioned 'Duranto' train was flagged of between

- A Sealdah New Delhi
- B Mumbai Howrah
- C Bangalore Howrah
- D Chennai New Delhi

Answer: A

Question 75

The South Pole experiences continuous light at

- A Summer solstice
- B Winter solstice
- C Vernal equinox
- D No time
 - Answer: B

OICL Solved Previous Papers PDF

Numerical

Instructions

For the following questions answer them individually

Question 76

A man, a woman and a boy together complete a piece of work in 3 days. If a man alone can do it in 6 days and a boy alone in 18 days, how long will a woman take to complete the work ?

- A 9 days
- B 21 days
- C 24 days
- D 27 days
 - Answer: A

Explanation:

Let the man's, woman's and boy's speed be x, y and z. Let the piece of work be W. Now, x+y+z = W/3Also, x = W/6and z=W/18



Therefore, y = W/3 - W/6 - W/18y = W/9 Number of days required by woman alone to complete the work = W/y = W/(W/9) Hence, number of days = 9 Therefore, the correct option is option A.

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Question 77

If $\sqrt{1296}$ = 36, then the value of $\sqrt{12.96} + \sqrt{0.1296} + \sqrt{0.001296} + \sqrt{0.00001296}$ is:

A 0.39996

- **B** 3.9996
- **C** 39.996
- **D** None of these

Answer: B

Explanation:

Now, $\sqrt{1296} = 36$ $\sqrt{12.96} = \sqrt{1296/100} = \frac{36}{10} = 3.6$ Similarly, $\sqrt{0.1296} = \sqrt{1296/10000} = \frac{36}{100} = .36$ $\sqrt{0.001296} = \sqrt{1296/10000} = \frac{36}{1000} = 0.036$ Therefore, $\sqrt{12.96} + \sqrt{0.1296} + \sqrt{0.001296} + \sqrt{0.00001296} = 3.6+.36+.036 = 3.996$ Option B is the correct answer.

Question 78

The perimeter of a circular and a square field are equal. What is the diameter of the circular field, if the area of the square field is 484 metre²

- A 14 metre
- B 21 metre
- c 28 metre
- D None of these

Answer: C

Explanation:

Let the square of side be x, Now area = 484 $x^2 = 484, x=22$ Perimeter = 4*22= 88 Circumference = 88 $2^{(22/7)*r} = 88$ Hence, r=14 Area= (22/7)*14*14 = 616Therefore, option C is correct.



A papaya tree was planted 2 years ago. It increases at the rate of 20% every year. If at present, the height of the tree is 540 cm, what was it when the tree was planted ?

- A 324 cm
 B 400 cm
 C 375 cm
- **D** 432 cm

Answer: C

Explanation:

This problem can be viewed as that of compound interest. Here, the trees growth is componded each year. Now, let the original height be x. $540 = x^*(1.2)^2$ x = 375 Hence, the trees height was 375cm before 2 years.

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Question 80

The ratio between the rates of travelling of A and B is 2: 3 and therefore A takes 10 minutes more than the time taken by B to reach a destination. If A had walked at double the speed, he would have covered the distance in

- **A** 30 min
- **B** 25 min
- **C** 20 min
- **D** 15 min
 - Answer: D

Explanation:

Let the speed of A and B be x and y. Hence, (x/y) = 2/3Also, let the distance be D. Therefore, D/x - D/y = 10Hence, we get D/x = 30 x = D/30Now if the speed was double i.e 2x, time required to cover same distance= D/(2x) = D/(D/15) = 15 minutes. Therefore, the correct option is option D.

Question 81

The sum of the squares of two positive integers is 100 and the difference of their squares is 28. The sum of the numbers is

Α	12	
_	10	

B 13

C 14

D 15

```
.
```

Answer: C

Explanation: Let the integers be x and y. $x^2+y^2 = 100$ $x^2 - y^2 = 28$ $2x^2 = 128$ $x^2 = 64$ x = 8Therefore, y=6 x+y = 8+6 = 14Therefore, the correct option is option C.

Question 82

8 men can finish a piece of work in 40 days. If 2 more men join with them, then the work will be completed in

- A 30 days
- B 32 days
- C 36 days
- D 25 days
 - Answer: B

Explanation:

Let the work be W and speed of each man be x. W/(8x) = 40 x = W/320If two more men join, total speed will become = W/32 Now, the work can be done= W/(W/32) = 32 days Therefore work will be done in 32 days.

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Question 83

10 women can complete a work in 7 days and 10 children take 14 days to complete the work. How many days will 5 women and 10 children take to complete the work?

- **A** 3
- **B** 5
- **C** 7
- D Cannot be determined

Answer: C

Explanation:

Let the speed of Women be x and that of children be y. Let piece of work be W. 10x=W/7, x=W/70 10y=W/14 y= W/140 Now, 5x + 10y = W/14 + W/14 = W/7

Number of day srequired to complete the work = W/(W/7) = 7 days. Therefore, the correct option is option C.

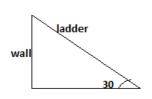
Question 84

A 10 metre, long ladder is placed against a wall. It is inclined at angle of 30C to the ground. The distance of the foot of the ladder from the wall is

- A 7.32 m
- **B** 8.26 m
- **C** 8.66 m
- **D** 8.16 m
 - Answer: C

Explanation:

This can be represented in diagrammatic form as,



Hence, by 30-60-90 theorem



Therefore, the correct option is option C.

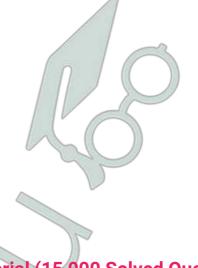
Question 85

The sum of five numbers is 555. The average of first two numbers is 75 and the third number is 115. What is the average of last twonumbers ?

- A 145 B 150
- **C** 265
- **D** 290
- E None of these
 - Answer: A

Explanation: Let the numbers be a, b, c, d, and e.

a+b+c+d+e = 555Now, (a+b)/2 = 75a+b = 150and c = 115therefore, d+e = 290Average, (d+e)/2 = 145



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The mean temperature of Monday and Thursday was 36C. If the temperature on Thursday was $\frac{1}{5}$ th of that Monday, then what was the temperature on Thursday ?

- A 36.5C
- **B** 32C
- **C** 35.5C
- **D** 34C
- E None of these

Answer: B

Explanation:

Let temperature on monday be a and that on thursday be y. (x+y)/2 = 36

Now, y = 0.8x

Hence, we get Monday's temperature as 40 Therefore, none of these is the answer.

Question 87

The microchip was invented by

- A INSDOC
- B BARC
- C IBM
- D Intel

Answer: D

Question 88

An express train travelled at an average speed of 100km/hr, stopping for 3 minutes after 75 km. A local train travelled at speed of 50 km/hr, stopping for 1 minute after every 25 km. If the train began travelling at the same time, how many kms did the local train level in the time it took the express train to travel 600 km ?

- **A** 307.5 km
- **B** 900 km
- C 1000 km
- **D** 1200 km
- Answer: A

Explanation:

The express train will cover 600 km in 6hrs and will stop fo 21 minutes in total at different stops. Now, the distance covered by the local train in 6 hours 21 minutes while subtracting the 1 minute for each halt after 25 minutes = 6.35 * 50 - 250/25 = 307.5 km.

Therfore, the correct option is option A.



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Question 89

The price of sugar is increased by 20%. If the expenditure is not allowed to increase, the ratio between the reduction in consumption and the original consumption is



Explanation:

Initially, let us assume that the price of sugar was Rs.100/kg. Now, after the increase the price is Rs120/kg. A person can buy 1kg of sugar for Rs.120. He can buy xkg of sugar for Rs.100 Hence, x=(100/120) = 5/6reduction in consumption = (1/6) Ratio of reduction in consumption to original consumption = 1:6 Hence, the correct option is option C.

Question 90

 $\frac{1}{2} + \frac{1}{6} + \frac{1}{12} + \frac{1}{20} + \frac{1}{30} + \dots + n^{(n+1)} = ?$

- A $\begin{bmatrix} 1 \\ n \end{bmatrix}$
- **B** $_{n+1}^{1}$
- c $\frac{2(n-1)}{n}$
- $\begin{array}{c}n\\\mathbf{D}&(n+1)\end{array}$

Answer: D

Explanation:

The given series is: $\stackrel{1}{2} + \stackrel{1}{6} + \stackrel{1}{12} + \stackrel{1}{20} + \stackrel{1}{30} + \dots + \stackrel{1}{(n+1)}$ This can be reframed as: $\stackrel{1}{1n} - \stackrel{1}{2} + \stackrel{1}{2} - \stackrel{1}{3} + \stackrel{1}{3} - \stackrel{1}{4} \dots + \stackrel{1}{n+1} = \stackrel{1}{1} - \stackrel{1}{n+1} = \stackrel{n}{n+1}$ Therefore, the correct option is option D.

Question 91

The difference between the present ages of Anil and Sudhir is 6 years. The ratio between their ages after 4 years will be 3:4. What can be the present age of Sudhir ?

- A 15 years
- B 18 years
- C 20 years





24 years

Answer: C

Explanation:

Let the age of Anil and Sudhir be x and y respectively. Now, y-x = 6 (x+4)/(y+4) = 3/44x - 3y = -4Therefore, on solving we get, x = 14 and y = 20 Hence, Sudhir's age is 20 years.



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Question 92

By selling a table for Rs. 350 instead of Rs. 400, loss percent increased by 5%. The cost price of table is:

- A Rs. 435
- **B** Rs. 417.50
- **C** Rs. 1000
- **D** Rs. 1050
 - Answer: C

Explanation:

```
We known that,

Loss Percent = CostPrice-SellingPrice

Let Cost Price be x.

Now,

Difference in percent loss will be 5%.

x^{-350} x^{-400}

x^{-x} = 0.05

50/x = 0.05

x = 1000

Therefore, the correct option is option C.
```

Question 93

A dealer offers a discount of 10% on the marked price of an article and still makes a profit of 20%. If its marked price is Rs. 800, then the cost price is:

A Rs. 600

- B Rs. 700
- C Rs. 800
- **D** Rs. 900 **Answer:** A

Explanation:

Dealer has offered a discount of 10% on his marked price of 800. Therefore, selling price = 800 - 80 = 720 SellingPrice-CostPricePercent Profit = CostPrice *100

ent Profit = CostPrice



 $\begin{array}{l} & \begin{array}{l} & 720-Cost Price \\ 0.2 = & Cost Price \\ Cost Price = 720/1.2 \\ Cost Price = 600 \\ Therefore option A is correct. \end{array}$

Question 94

In a ration which is equal to 5: 8, if the antecedent is 40, then the consequence is:

- **A** 25
- **B** 64
- **C** 48
- D None of these

Answer: B

Explanation:

Here the ratio is 5:8 = 40:64 Therefore, the antecedent is and consquent is 64. Hence, the correct option is option B.

Question 95

9 children can complete a piece of work in 360 days, 18 men can complete the same piece of work in 72 days and 12 women can complete it in 162 days. In how many days can 4 men, 12 women and 10 children together complete the piece of work ?

- A 68 days
- B 81 days
- C 96 days
- D 124 days
 - Answer: B

Explanation:

Let the speed of child, man and woman to complete work W be x,y and z respectively. Therefore, as per given conditions x = W/3240 y = W/1296and z = W/1944Now, the combined speed of 4 men, 12 women and 10 children = 4y+12z+10x = W/81 Now, number of days = W/(W/81) = 81 days The correct option is option B

Question 96

A, B, C started a shop by investing Rs. 27000, Rs. 81000 and Rs. 72000 respectively. At the end of one year, B's share in total profit was Rs. 36000. What was the total profit ?

- A Rs. 108000
- B Rs. 116000
- C Rs. 80000
- D Rs. 92000

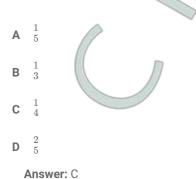
Answer: C

Explanation:

A, B and C will recieve profits in proportion to their investments. Now, their investments are in the ratio 3:9:8 Let the common multiple be x. Now, B's share = 36000Therefore, (9/20)x = 36000x = 80,000The correct option is option C.

Question 97

A class of 30 students occupy a classroom containing 5 rows of seats, with 8 seats in each row. If the students seat themselves at random, the probability that the sixth seat in the fifth row will be empty is



Question 98

If a student walks from his house to school at 5 km/hr, he is late by 30 minutes. However, if he walks at 6 km/hr, he is late by 5 minutes only. The distance of his school from his house is.

A 2.5 km

B 3.6 km

- C 5.5 km
- D 12.5 km

Answer: D

Question 99

Find the missing number in series: 2, 5, 9, ?, 20, 27

A 14

B 16

- **C** 18
- **D** 24

Answer: A

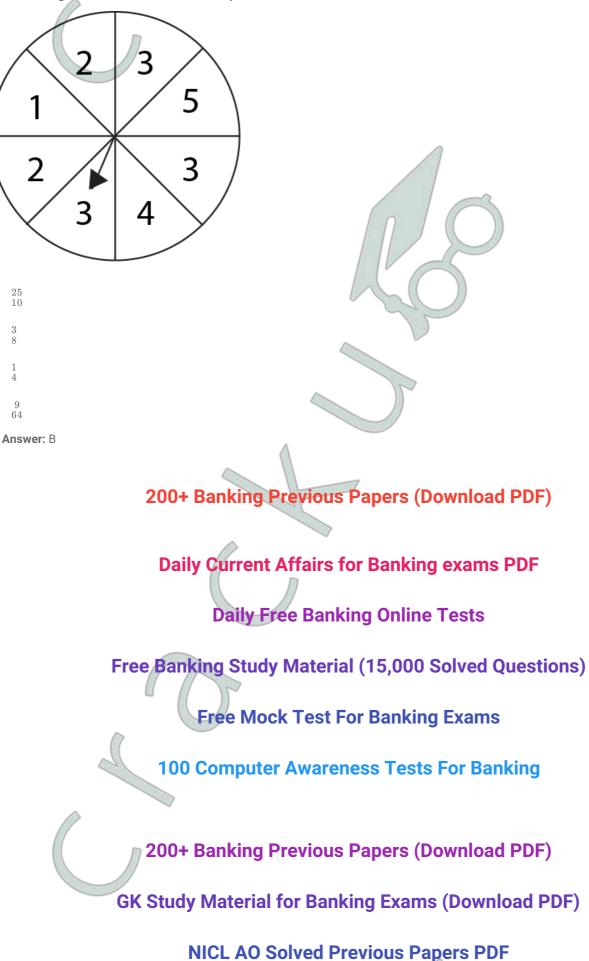
Δ

В

С

D

The circle given at right side is divided into eight sectors of equal area. What is the probability that the spinner will land on an evennumbered region in each of two consective spins ?



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