



SNAP 2015

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General Awareness

Instructions

For the following questions answer them individually

Question 1

The full form of CSIRO is

- A Comprehensive Scientific and Industrial Research Organization
- B Cross-cultural Scientific and Industrial Research Organization
- C Commonwealth Scientific and Industrial Research Organization
- D Council of Scientific and Industrial Research Organization

Answer: C

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Question 2

The full form of UNRISD is

- A United Nations Research Institute for Soviet Development
- B United Nations Research Institute for Scientific Development
- C United Nations Research Institute for Socio-economic Development
- D United Nations Research Institute for Social Development

Answer: D

Question 3

Bhaona is a presentation of the Ankia Naat of Assam. In Bhaona the cultural glimpses of _____ is/ are reflected.

- A Assam and Orissa
- B Bengal
- C Mathura and Brindavan
- D All of the above

Answer: D

Question 4

Under which Act does the Archaeological Survey of India (ASI) protect monuments, sites and remains of national importance ?

- A AMASR Act, 1958
- B AMASR Act, 1968
- C AMASR Act, 1978
- D AMASR Act, 1948

Answer: A

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Question 5

In 2015 the President of India approved conferment of Padma Awards to all of the following but for _____

- A Kharag Singh Valdiya
- B Mohammad Yusuf Khan
- C Lakshmi Gopala Naidu
- D Saichiro Misumi

Answer: C

Question 6

In Grammy Awards 2015 the best folk album was won by _____

- A Pharrell Williams - "Happy"
- B Old Crow Medicine Show - Remedy
- C Rosanne Cash - The River & the Thread
- D None of the above

Answer: B

Question 7

Scientists discovered a new species in the human family tree which is a small creature with a tiny brain. The new species has been named as _____

- A Homo Naledi
- B Dwarf Sapein
- C Dwarf Homo Sapein
- D None of the above

Answer: A

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Question 8

The ministry of external affairs has recently decided to change the nomenclature of Indian Based Domestic Assistance (IBDA) to _____

- A Government Serving Based Domestic Assistance (GSBDA)
- B Swadesh Swatcha Domestic Assistance (SSDA)
- C Service Staff (SS)
- D Bharath Based Service Assistance (BBSA)

Answer: C

Question 9

The foreign exchange reserve of India consists of _____

- A The foreign currency assets held by RBI and the gold holding of RBI
- B The gold holding of RBI and special drawing rights
- C The gold holding of RBI, the foreign currency assets held by RBI and special drawing rights
- D Only the foreign currency assets held by RBI

Answer: C

Question 10

_____ is a charge for converting bullion into coins where free coinage is permitted. This charge is equal to the cost of bullion to coins transformation.

- A Bull-Coin
- B Brassage
- C Bit Coin
- D Coin Levy

Answer: C

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Question 11

Microsoft introduced several new products for education customers, this includes a notetaking app called _____

- A Office Note classroom
- B Micro Note class Notebook
- C Soft note for classroom
- D One Note class Notebook

Answer: D

Question 12





The National Merit Scholarship Scheme, which provided financial assistance to meritorious students from Class XI to Post-Graduation level in Government Schools/Colleges/Universities has been discontinued from the year _____

- A 2009
- B 2008
- C 2007
- D None of the above

Answer: C

Question 13

The Symbol used for reusable microwaveable plastic ware is _____

1.  2.  3.  4. 

- A 1
B 2
C 3
D 4

Answer: B

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Question 14

The agency that estimates national income in India is

- A RBI
B Central Statistics Organisation
C Planning commission
D Central Statistic Organisation

Answer: B

Question 15

Super Blood Moon, which is a rare astronomical phenomenon hasn't happened since _____, and won't happen again until _____

- A 1982 , 2033
B 1980 , 2035
C 1978 , 2032
D 1975 , 2031

Answer: A

Question 16

The galaxy _____ was initially discovered with NASA's Spitzer Space Telescope in infrared light and is believed to be at least 9 billion years old.

- A ANDROMEDA
B COSMOS REDSHIFT
C SAGE0536AGN
D SUNFLOWER

Answer: A

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Question 17

In the year 2014 Facebook bought Whatsapp for _____ US Dollars.

- A 17 billion
- B 18 billion
- C 19 billion
- D 20 billion

Answer: C

Question 18

Shri Narendra Modi was sworn in as the Prime Minister of India on _____ at the Rashtrapati Bhavan in New Delhi.

- A 25th May 2014
- B 19th May 2014
- C 26th May 2014
- D 27th May 2014

Answer: C

Question 19

Where is the doldrums belt located ?

- A Near the Equator
- B Near the Poles
- C Near the Tropic of Cancer
- D Near the Tropic of Capricorn

Answer: A

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Question 20

The air quality in Singapore deteriorated to a hazardous level in September 2015, forcing the city-state to shut its schools for the first time in 12 years. This was due to

- A Haze created mainly due to companies in Malaysia
- B Haze created mainly due to companies in Indonesia
- C Haze created mainly due to companies in Philippines
- D Haze created mainly due to companies in Vietnam

Answer: A

Question 21

In 1347 during the reign of Muhammed Tuglak an Afghan officer named _____ setup an independent kingdom called Bahmani Kingdom.

- A Mahmud Gawan Bahmani
- B Mohammad Yusuf Bahmani
- C Hasan Gangu Bahmani
- D Khwaja Tuglak Bahmani

Answer: C

Question 22

The task of consolidating Mughal Kingdom was left to Akbar who was only _____ years old at the time of his accession of the throne.

- A Eleven Years
- B Twell Years
- C Thirteen Years
- D Fourteen Years

Answer: C

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Question 23

Smoking in public places was prohibited nationwide from _____

- A 15th August 2008
- B 2nd October 2008
- C 15th August 2009
- D 2nd October 2009

Answer: B

Question 24

A constitutional right can be _____ recognized and established by a sovereign State or union of States.

- A a prerogative or a duty or a restraint of power
- B a prerogative or a duty, a power or a restraint of power
- C a prerogative or a duty, a power but not a restraint of power
- D a power but not a prerogative or a duty

Answer: B

Question 25

In Nepal the festival of lights i.e. Diwali is celebrated by some Buddhists as _____

- A Tihar
- B Swanti
- C Both options a and b
- D Neither of the options above

Answer: C

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Question 26

The term "Vrajapati" used in Indian Mythology denoted _____

- A The Head of the Village
- B The Head of the Family
- C The Head of a Society
- D The Head of a City

Answer: A

Question 27

One of India's most distinguished constitutional lawyers who had received brickbats for arguing in favor of Dow Chemicals in the Bhopal gas disaster case is _____

- A Ram Jethmalai
- B Fali Nariman
- C Mukul Rohatgi
- D Pramila Nesargi

Answer: B

Question 28

The Nobel Peace Prize winner who gave up .freedom and a life with her family in Britain, to protest against the military rule at another country, who is also the Chair of the National League for democracy is _____

- A Angela Merkel
- B Christine Lagarde
- C Brito Polman
- D Aung San Suu Kyi

Answer: D

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Question 29

In September 2015 it was revealed that is the country which was exporting drone components worth hundreds of millions to countries that include Saudi Arabia and South Korea, to regain lost ground in a global arms race.

- A France
- B United Kingdom
- C Japan
- D USA

Answer: B

Question 30

In the Indian general assembly elections 2014 the BJP-led NDA won _____ seats out of _____ Lok Sabha seats that were announced

- A 335546
- B 334545
- C 336543
- D 331544

Answer: C

Question 31

The BS EN 16001 solutions from BSI is applicable for

- A Energy Management Systems
- B Environment Management Systems
- C Energy Process Systems
- D Environment Standard Systems

Answer: A

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Question 32

The WEEE (Waste from Electrical and Electronic Equipment) is a directive that controls _____

- A how electric and electronic equipment is handled and recycled
- B how electric and electronic equipment is manufactured and handled
- C how electric and electronic equipment is recycled
- D how electric and electronic equipment is manufactured, handled and recycled

Answer: C

Question 33

The Sensex and Nifty are both indices. The base years for the BSE Sensex and Nifty are _____ and _____ respectively.

- A 1980-81 and 1990
- B 1990-91 and 2000
- C 1978-79 and 1995
- D 2000-01 and 2004

Answer: C

Question 34

The artist who painted Irises, Sunflowers, Red Poppies, Pink Roses was _____

- A Vincent van Gogh
- B Sandro Botticelli
- C Leonardo da Vinci
- D Michelangelo

Answer: A

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Question 35

Which Indian satellite was launched that has a fantastic timing and records 1000th of a second ?

- A GSAT - 16
- B IRNSS - ID
- C GSAT - 6
- D Astrosat

Answer: C

Question 36

W3C stands for _____

- A Triple Web Consortium
- B Triple Web Consolidation Council
- C World Wide Web Consortium
- D World Wide Web Company

Answer: C

Question 37

The country/countries that has/have resorted to Quantitative easing in the last decade is/are

- A United States of America
- B United Kingdom
- C Japan
- D All of the above

Answer: D

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Question 38

Who is the Indian badminton player who after spending an year after his shoulder injury earned a final appearance at the Korean Open in 2015 ?

- A Chetan Anand
- B AjayJayaram
- C Parupalli Kashyap
- D Sameer Verma

Answer: B

Question 39

Tamaasha, the traditional folk theatre form of Maharashtra has evolved from the folk forms of

- A Gondhal, Jagran and Kirtan
- B Only Kirtan
- C Only Gondhal, Jagran
- D Only Gondhal

Answer: A

Question 40

The last series of wall painting in India are from near Hindupur belonging to 16th century A.D.

- A Lepakshi temple
- B Shiva temple
- C Sri Venkateswara Swami Temple
- D Ganesh Temple

Answer: A

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Reasoning

Instructions

For the following questions answer them individually

Question 41

A bungalow has one of its room located on the first floor and there are three identical 100 watt electrical bulbs fixed in the room. Each bulb is connected to a specific switch located at the basement. There are only three switches in the basement. All the bulbs are switched off at present and you are also at the basement area. The first floor cannot be seen from the basement area. If you are allowed to use your common prudence, what is the minimum number of times that you will have to go from basement to first floor to identify which switch goes to which bulb?

- A 3 times
- B 20 times
- C 1 time
- D 6 times

Answer: C

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Question 42

Shyam is running a start-up. His initial investments are high and he is trying hard to manage and increase his cash flow. The sundry expenses that his firm incurs is negligible. He found from his accountant that the amount of pre-paid expenses in the balance sheet, which were booked from the previous year to the current year was increased. Shyam also ensured that his cash funded by the venture capitalists did not reduce when compared to the previous year. The interest that he gets from his fixed deposits increases, which is in tune with his sundry expenses. The final effect on cash for this year would be _____.

- A Cash flow marginally increases
- B Cash flow exponentially increases
- C Cash flow remains the same
- D None of the above

Answer: D

Question 43

A producer of a drama theatre is creating his weekend schedule. The producer has six plays to choose from: "Made in India", "Laugh for a while", "The Life is your choice", "MBA - Maha Budhiman Aadmi", "Placements -my goal", "MBA Go Getters". The producer sets a schedule based upon the following criteria.

- I. "Made in India" must be shown before "The Life is your choice" and "Laugh for a while"
- II. "Laugh for a while" must be shown before "MBA - Maha Budhiman Aadmi"
- III. "Placements - my goal" must be shown after "The Life is your choice" and "MBA Go Getters"

Which of the following weekend schedules are consistent with the producer's criteria ?

- A Made in India, Laugh for a while, The Life is your choice, MBA - Maha Budhiman Aadmi, Placements - my goal and MBA Go Getters.
- B MBA Go Getters, Made in India, Laugh for a while, The Life is your choice, Placements - my goal and MBA - Maha Budhiman Aadmi.
- C Made in India, MBA Go Getters, Placements - my goal, Laugh for a while, MBA - Maha Budhiman Aadmi and The Life is your choice.
- D Made in India, MBA Go Getters, MBA - Maha Budhiman Aadmi, The Life is your choice, Placements - my goal and Laugh for a while

Answer: B

Question 44

Mr. Peter gave his eldest son David a bag with 1000 gold coins. David took 230 gold coins from the bag and gave the rest to his younger brothers John, Joe and Jonathan, and advised them to distribute the balance left in the bag amongst themselves in proportion to their age which together amounted to 17.5 years. After a lot of deliberation and discussion John, Joe and Jonathan came to a conclusion to distribute the gold coins. Their methodology was as follows: As often John took 4 gold coins, Joe took 3. As often John took 6 gold coins Jonathan took 7. What was the age of John, Joe and Jonathan ?

- A 6 years, 4.5 years and 7 years respectively
- B 5 years, 5.5 years and 7 years respectively
- C 6 years, 5 years and 6.5 years respectively
- D 5 years, 6.5 years and 6 years respectively

Answer: A

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Question 45

Mohan has an antique clock which strikes and makes loud gong sound every hour. It strikes the exact number of times indicating the time of the day or night. His clock takes seven seconds to strike Seven O' clock, how many seconds will his clock take to strike Eleven O'clock?

- A 11.22222227 seconds
- B 11 seconds
- C 11.66666667 seconds.
- D None of the above

Answer: C

Question 46

Find the missing number : 2, 6, 20, 42, 110 _____

- A 126
- B 156
- C 176
- D 196

Answer: B

Question 47

Fifteen years back, Ms. Kalpana had three sons Ramesh, Suresh and Rajesh. The sum of the age of Ramesh, Suresh and Rajesh was equal to half of the age of their mother. It was during the next five years when Mahesh was born. Then the age of Ms. Kalpana was equal to the sum of the ages of all her children. Time went on and years passed and Dinesh was born and age of Ramesh equaled the sum of the ages of Rajesh and Mahesh. Now, it so happened that the sum of the ages of Ramesh, Suresh, Rajesh, Mahesh and Dinesh was double the age of their mother and was also equal to the sum of the ages of Suresh and Ramesh. Also Ramesh's age was equal to sum of the ages of Mahesh and Dinesh. What is the age of Ms. Kalpana?

- A 39 years
- B 42 years

- C 41 years
- D none of the above

Answer: C

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Question 48

Find the missing number: -1, 0, 0, ____, 8

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

Answer: B

Question 49

Ceiling Fan : Table Fan :: abcdefg :

- A abcdefg
- B abcdgfe
- C gfedcba
- D None of these

Answer: C

Instructions

There is a statement followed by two arguments. Choose the correct option which gives the decision on the arguments, which is derived from the statement.

Question 50

Given Statement: The new amendment of Corporate Social Responsibility (CSR) in India refers to bringing an overall positive impact on the communities, cultures, societies and environments. The fundamentals of CSR rest on the fact that not only public policy but even corporate should be responsible enough to address social issues.

Argument I: Government should not enforce companies to take up CSR.

Argument II: Companies moral responsibility is to take up CSR for a long run benefit.

- A Argument II is correct but Argument I is wrong
- B Argument I is correct but Argument II is wrong
- C Both the arguments are false
- D Both the arguments are correct

Answer: A

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Question 51

LPG subsidy is a stand taken by the government. Linking of Aadhar card to a bank account has been made mandatory for receiving the subsidy.

Argument I: All people should give up LPG subsidies.

Argument II: To fill the gap between poor and rich.

- A Argument II is the output of Argument I
- B Argument I is a byproduct of Argument II
- C Argument I and Argument II are complementing to each other
- D No logical link between Argument I and Argument II

Answer: D

Instructions

For the following questions answer them individually

Question 52

If CAB is coded as 723 - 5 58 in a coded language then how will DAD be coded ?

- A 4023 -5 4023
- B 4090 -5 4090
- C 1024 -5 1024
- D 1246 -5 1189

Answer: B

Question 53

If MONEY is coded as 144 200 171 0 600 then DOLLAR is coded as _____

- A - 9 200 199 119 - 24 299
- B - 8 200 106 106 - 20 200
- C 122 200 102 102 10 154
- D 120 200 101 101 08 156

Answer: A

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Question 54

There are 100 MBA aspirants in a classroom and 99% of them are engineers. How many engineers must leave the classroom in order to reduce the percentage of engineers in the classroom to 98% ?

- A 1
- B 2
- C 50
- D 90

Answer: C

Question 55

Vikas was showing a photograph to his friend and pointed to a boy and told the following statement "His name is Atul and his maternal grandfather's brother is my maternal grandfather's sister's son." How is Atul related to Vikas ?

- A They are brothers
- B Vikas is the uncle of Atul
- C They are distant cousins
- D None of the above

Answer: B

Question 56

There was a party organized and the following members attended the party : Sheela, Amruta, Rohit, Rahul, Ajey, Ranveer and Gauri. Sheela is mother-in-law of Amruta, who is sister-in-law of Rohit. Rahul is the father of Ajey. Ajey is the brother of Rohit. Ranveer is the only brother of Rahul and the father-in-law of Gauri. Gauri was married to Rohit. How is Sheela related to Ranveer ?

- A cousin
- B mother
- C sister
- D none of the above

Answer: D

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Instructions

Using the information given below answer the questions:

A chef is trying a recipe for a tasty ice cream using four ingredients. He can choose from three liquids for taste which are labeled A, B and C which are stable in nature and the choice for flavor can be from four liquids which are labeled W, X, Y and Z. For the new ice cream recipe to be tasty, there must be two liquids from the taste giving liquids. Also certain liquids cannot be mixed because of their reactions which makes it unhealthy for human consumption and the same is given below B cannot be mixed with W C cannot be mixed with Y Y cannot be mixed with Z

Question 57

If the chef calculated that Y is the most important flavor and must be used in the recipe, which other ingredients must be part of the recipe ?

- A A, B and W
- B A, B and X
- C A, B and Z
- D B, C and X

Answer: B

Question 58

If the chef rejected B because of its possible side effects but decided to use Z, which is a possible combination of the four ingredients in the recipe ?

- A A, C, W and Z
- B A, X, Y and Z
- C A, W, X and Z
- D A, C, Y and Z

Answer: A

Question 59

Which of the following combination of liquids is impossible ?

- I. Using Y and W together
- II. Using B and C together
- III. Using W, X and Z together

- A I only
- B II only
- C III and I only
- D II and I only

Answer: C

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Question 60

Which of the following must always be true ?

- I. If C is used W must be added
- II. If Y is used B must be added
- III. If C is not used W cannot be added

- A I and II only
- B II and III only
- C I, II and III only
- D II only

Answer: B

Instructions

For the following questions answer them individually

Question 61

Which letter from the options given will replace the "?" in the table given below

CAT	389376	DOG
RAT	1758276	MAT
CAB	15876	FAN
CAN	571536	?

- A MAN

- B GIFT
- C PAN
- D SOFT

Answer: B

Question 62

Which word from the given options will replace the "?" in the table given below

WOE	1089	MISERY
VANQUISH	1308	SUBDUE
TACITURNITY	1547	SILENCE
SPLEEN	1806	?

- A MALEVOLENCE
- B JOIN
- C LINK
- D DRIP

Answer: D

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Question 63

Which word from the given options will replace the "?" in the table given below

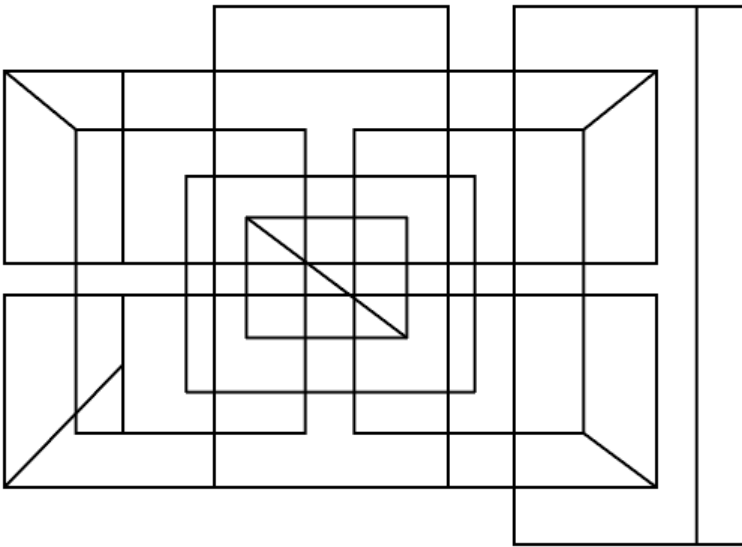
MBA	728	NCB
BCA	24	CDB
BCS	24	CDT
FCA	?	GDB

- A 48
- B 168
- C 64
- D 132

Answer: D

Question 64

What is the least number of straight lines needed to draw the following diagram?

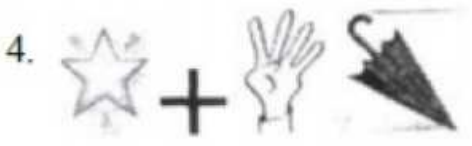
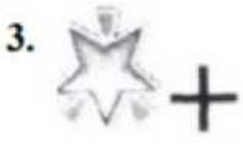


- A 39
- B 40
- C 42
- D none of the above

Answer: A

Question 65

Answer the following by referring to the image.



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

Answer: C

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Instructions

Based on the information given below answer the questions:

Ten friends Matt, Sam, Pat, Tom, Sid, Alex, Kat, Jim, Jane and John are having dinner on a rectangular table. Eight facing each other along the length of the table while two facing each other along the smaller side of the table. Pat is sitting diagonally opposite to Kat, Alex is facing Jim, John is to the right of Jane, Tom is sitting between Sam and Jim, Pat is to the extreme left of Jane who is sitting on the extreme right along the length of the table. Sid is facing Tom and Matt is on the right of Sam.

Question 66

Who do you think is sitting in front of each other along the small sides of the table ?

- A Matt and John
- B Matt and Sam
- C Matt and Kat
- D John and Sam

Answer: A

Question 67

Sid is sitting between which of the following two ?

- A Sam and Kat
- B Pat and Alex
- C Alex and Jane
- D Kat and Jane

Answer: B

Question 68

Who are sitting diagonally opposite to each other ?

- A Sid and Tom
- B Sam and Jane
- C Alex and Jim
- D Jane and Kat

Answer: B

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Question 69

Who is sitting to the immediate right of Jim

- A Sam
- B Jane I
- C Alex
- D Tom

Answer: D

Question 70

Who is sitting two places left to Jane ?

- A Pat
- B Alex
- C Sid
- D Sam

Answer: C

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General English

Instructions

For the following questions answer them individually

Question 71

"To catch a tartar" means _____

- A To trap wanted criminal with great difficulty
- B To catch a-dangerous person
- C To catch a person who is more than one's match
- D To meet with disaster

Answer: B

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Question 72

A leopard can't change its _____

- A dots
- B stripes

- C color
- D none of the above

Answer: D

Question 73

"So sober sometimes serious Sam smiles on silly things" is a /an _____.

- A hyperbole
- B assonance
- C anaphora
- D alliteration

Answer: A

Question 74

"The strength given by my mother is bigger than the cosmic energy in this cosmos" is _____

- A rhyme
- B metaphor
- C personification
- D hyperbole

Answer: B

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Question 75

The buzzing of bees is an example of _____

- A simile
- B metonymy
- C onomatopoeia
- D paradox

Answer: C

Question 76

The word CACTI is of Latin origin. It can also be replaced by _____

- A cactus
- B cats
- C cactuses
- D cactusas

Answer: A

Question 77

The word TROUSSEAUX is of French origin. It can also be replaced by _____

- A Troussers
- B Trousseaus
- C Troussears
- D None of the above

Answer: D

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Question 78

The singular of the word SCARVES is spelt as _____

- A scarve
- B scarfe
- C scarv
- D none of the above

Answer: D

Question 79

The "Drawing Pins" in British English is referred to as _____ in American English.

- A thumb pins
- B board pins
- C broad pins
- D thumbtacks

Answer: A

Question 80

"Aubergine" in Britain is referred to as in United States of America.

- A Migraine
- B eggplant
- C margarine
- D egg

Answer: B

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Question 81

Base ball in American English is commonly referred to as _____ in British English.

- A run ball
- B strike ball
- C rounders ball
- D rounders

Answer: D

Question 82

Complete the collocation words _____ weapon

- A nuclear
- B atomic
- C molecular
- D electronic

Answer: A

Question 83

Complete the collocation words Seminal _____

- A news
- B river
- C nuance
- D research

Answer: D

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Question 84

Complete the collocation words _____ Percentage

- A huge
- B big
- C more
- D large

Answer: D

Question 85

The idiom "Against the clock" means

- A Break the Rules
- B Rushed and short on time.
- C Go back to the Past
- D Look at the Past

Answer: B

Question 86

The idiom "Buy a lemon" means _____

- A A superstitious way to say 'good luck'
- B A lie which is propaganda for people to believe
- C An unbelievable story which is told for people to believe
- D To purchase a vehicle that constantly gives problems or stops running after you drive it away.

Answer: A

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Question 87

Kedar uses the following sentence to introduce himself. Choose the correct option.

- A Myself Kedar, I belong to Mumbai
- B Myself Kedar and I am from Mumbai
- C Myself Kedar from Mumbai
- D None of the above

Answer: D

Question 88

Ram uses the following sentence to tell the time of the day to Shyam. Which one is the correct sentence ?

- A It is 2 pm in the afternoon
- B It is 2 pm
- C It is 2 pm in the noon
- D It is 2 o'clock in the afternoon

Answer: D

Instructions

In the following questions parts have been underlined. If any rule of correct English is violated then it could be only in the UNDERLINED part, marked as 1, 2, 3 or 4. Choose the option, which violates usage of correct English.

Question 89

My Parents/1 are Indians but/2 I am/3 born in Sydney/4.

- A only 1
- B 1 and 3
- C only 3
- D only 4

Answer: B

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Question 90

Standing/1 on the top of the tower the whole city could be seen/3.

- A only 1
- B only 2
- C 1 and 2
- D None of the above

Answer: D

Question 91

Ganesh is taller than/1 Ramesh but/2 Anoop is/3 more taller/4.

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

Answer: D

Instructions

Read the following passage and answer the questions:

"There are several factors that contribute to wisdom. Of these I should put first a sense of proportion; the capacity to take account of all the important factors in a problem and to attach to each its due weight. This has become more difficult than it used to be owing to the extent and complexity of the specialized knowledge required of various kinds of technicians. Suppose, for example, that you are engaged in research in scientific medicine. The work is difficult and is likely to absorb the whole of your intellectual energy. You have no time to consider the effect which your discoveries or invention may have outside the field of medicine. You succeed (let us say), as modern medicine has succeeded, in enormously lowering the infant death-rate, not only in Europe and America, but also in Asia and Africa. This has the entirely unintended result of making the food supply inadequate and lowering the standard of life in the most populous parts of the world. To take an even more spectacular example, which is in everybody's mind at the present time- you study the composition of the atom from a disinterested desire for knowledge and incidentally place in the hands of powerful lunatics the means of destroying the human race. In such ways the pursuit of knowledge may become harmful unless it is combined with wisdom; and wisdom in the sense of comprehensive vision is not necessarily present in specialists in the pursuit of knowledge. Comprehensiveness alone, however, is not enough to constitute wisdom. There must be, also, certain awareness of ends of human life. This may be illustrated by the study of history. Many eminent historians have done more harm than good because they viewed facts through the distorting medium of their own passions. Hegel had a philosophy of history which did not suffer from any lack of comprehensiveness, since it started from earliest time and continued into an indefinite future. But the chief lesson of history which he sought to inculcate was that from the year A.D. 400 down to his own time, Germany had been the most important nation and the standard bearer of progress in the world. Perhaps one could stretch the comprehensiveness that constitutes wisdom to include not only intellect but also feeling. It is by no means uncommon to find men/

women whose knowledge is wide but those feelings are narrow. Such men / women lack what I am calling wisdom. I think the essence of wisdom is emancipation, as far as possible, from the tyranny of the here and the now. We cannot help the egoism of our senses. Sight, sound and touch are bound up with our own bodies and cannot be made impersonal. Our emotions start similarly from ourselves. An infant feels hunger or discomfort; gradually with the years his horizon widens, and, in proportion as his thoughts and feelings become less personal and less concerned with his own physical states, he achieves growing wisdom. This is of course a matter of degree. No one can view the world with complete impartiality; however, it is possible to make a continual approach towards impartiality, on the one hand, by knowing things somewhat remote in time or space, and, on the other hand, by giving to such things their due weight in our feelings. It is this approach towards impartiality that constitutes growth in wisdom. Perhaps in this sense the wisdom can be taught. I think that this teaching should have a larger intellectual element than has been customary in what has been thought of as moral instruction. I think that the

disastrous result of hatred and narrow mindedness to those who fed them can be pointed out incidentally in the course of giving knowledge. Knowledge and morals ought not to be too much separated. It is true that the kind of specialized knowledge which is required for various kinds of skills has very little to do with wisdom. But it should be supplemented in education by wider surveys calculated to put it in its place in the totality of human activities. Even the best technicians should also be good citizens, i.e. citizens of the world and not of any one nation.

With every increase of knowledge and skill, wisdom becomes more necessary for every such increase augments our capacity of realizing our purposes, and therefore augments our capacity for evil, if our purposes are unwise. The world needs wisdom as it has never needed it before; and if knowledge continues to increase, the world will need wisdom in the future even more than it does now.

Question 92

According to the author what results in growth of wisdom ?

- A Widening Knowledge and narrowing feelings
- B Acquiring specialized knowledge which is required for various kinds of skills
- C Viewing the world with complete impartiality
- D None of the above

Answer: C

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Question 93

According to the author the essence of wisdom is _____

- A Deliverance from the oppression of here and now
- B Subduing from the oppression of here and now
- C Captivity from the oppression of here and now
- D All of the above

Answer: B

Question 94

What according to the author is the relationship between knowledge and wisdom ?

- A As human wisdom increases there is increase in knowledge created
- B As knowledge keeps on increasing there is lesser need of wisdom
- C As knowledge keeps on increasing there is a higher need for wisdom
- D As growth in wisdom stops, knowledge creation stagnates.

Answer: C

Question 95

The example used by the author to explain the ways in which the pursuit of knowledge can be harmful, unless combined with wisdom, is

- A the space mission
- B medicine that lowers infant mortality across the world.
- C the progress of Germany.
- D none of the above.

Answer: B

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Question 96

What factors according to the author, contribute to wisdom ?

- A a sense of proportion, giving knowledge, study of history, emancipation
- B a sense of proportion, dignity, knowledge, skill
- C comprehensiveness, a sense of proportion, awareness of the end of human life, emancipation from the tyranny of the present
- D none of the above.

Answer: C

Instructions

Read each of the components of the given sentences and mark the component with grammatical error.

Question 97

- I. He is capable at
- II. twisting any fact
- III. without any suspicion
- IV. at any time

- A Only I
- B Only II
- C Only III
- D Only IV

Answer: A

Question 98

- I. My cousin brother, who lives
- II. in Goa, is eager to visit us
- III. in Mumbai and aspires to have
- IV. a glimpse of the city

- A Only I
- B Only II

C Only III

D Only IV

Answer: A

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Instructions

Choose the correct word which best fits for the sentence to be complete and grammatically correct.

Question 99

It was no wonder that after the roads were closed with continuous snow fall, hotels started _____ off the tourists.

A ranking

B taking

C beating

D looting

Answer: A

Question 100

When the penalty corner was saved, the players _____ in toward the goal keeper to congratulate him.

A closed

B went

C crashed

D pooled

Answer: C

Instructions

For the following questions answer them individually

Question 101

The synonym for the word "Inclement" is

A stormy

B intimate

C advocacy

D immediate

Answer: A

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Question 102

The antonym for the word "Taciturn" is _____

- A garrulous
- B energetic
- C ephemeral
- D enigmatic

Answer: A

Question 103

Complete with the appropriate collocation word _____ activism.

- A judicial
- B legal
- C prosecutorial
- D lawful

Answer: A

Question 104

If Propensity : Tendency then _____

- A Prologue : Epilogue
- B Master : Slave
- C Audacity : Impudence
- D Conduct : Immortality

Answer: C

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Question 105

If Tepid: Hot then _____

- A Jealousy : Envy
- B Hatred : Antipathy
- C Unity : Harmony
- D Joy : Ecstasy

Answer: D

Question 106

From the following words pick the odd word out.

- A lampoon
- B satire

C ridicule

D parable

Answer: D

Question 107

From the following words pick the odd word out.

A euphemism

B maxim

C aphorism

D dictum

Answer: A

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Question 108

From the following words pick the odd word out.

A force

B intimidation

C shakedown

D bleak

Answer: D

Instructions

The following questions have sentences which are incomplete. Pick up one phrase / clause from the options given, that will complete the sentence logically.

Question 109

To ensure success in a difficult task _____

A one needs to be persistent

B persistence is needed

C you need a person of persistence

D persistence is what one needs

Answer: B

Question 110

The more we looked at the piece of modern art _____

A we liked it less

B better we liked it

- C the less we liked it
- D we liked it more and more

Answer: B

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Quantitative Aptitude

Instructions

For the following questions answer them individually

Question 111

A batsman was having 32 runs per innings as his average after 15th innings. His average increased by 2 runs after 16th inning. Then what was his score in the 16th inning?

- A 64
- B 60
- C 46
- D 62

Answer: A

Explanation:

This can be answered either by using averages concept or alligations concept.

Alligations : $p = \frac{(p_1q_1 + p_2q_2)}{q_1 + q_2}$ where q_1 and q_2 are the number of innings in two group's , p_1 and p_2 are there respective averages(average runs) , p is the overall average.

Here $q_1=15$, $q_2=1$, $p_1=32$, $p=34$ (since increased by 2 runs)

On solving the equation you get $p_2=64$

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Question 112

The least number which is a perfect square and is divisible by each of the numbers 14, 16, 18 is

- A 6048
- B 7056
- C 1008
- D 2046

Answer: B

Explanation:

The least number that is divisible by 14,16,18 will be the LCM of three which is 1008 but it is not a perfect square .

$1008 = 2^4 \cdot 3^2 \cdot 7$. To make it a perfect square you need to multiply it by 7.

$1008 \cdot 7 = 7056$

Question 113

Four people clap after every 20 minutes, 30 minutes, 40 minutes and 50 minutes respectively. All of them clapped together at 10.00 am. Then they will again clap together at _____

- A 3 pm
- B 5 pm
- C 6 pm
- D 8 pm

Answer: D

Explanation:

All of them will clap together after LCM(20,30,40,50) minutes = 600 minutes=10hrs

Therefore they will clap together again at 8pm.

Question 114

Three candidates "A", "B", "C" participated in an election. "A" gets 40% of the votes more than "B". "C" gets 20% votes more than "B". "A" also overtakes "C" by 4000 votes. If 90% voters voted and no invalid or illegal votes were cast, then what will be the number of voters in the voting list?

- A 72000
- B 80000
- C 70000
- D 78500

Answer: B

Explanation:

Let $100x$ be the total numbers of voters in the voters list. $\Rightarrow 90x$ voters voted

$A=1.4B$ (since A received 40% more votes than B)

$C=1.2B$

Given $A-C = 4000$

$1.4B-1.2B=4000 \Rightarrow B=20000 \Rightarrow A=24000$ and $C = 28000$

So total voter who voted $=A+B+C= 72000$ which is 90% of the total list.

So when 90%= 72000 , 100%= 80000.

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Question 115

In a competitive exam there were 5 sections. 10% of the total number of students cleared the cut off in all the sections and 5% cleared none of the sections. From the remaining candidates 30% cleared only section 1, 20% cleared only section 2, 10% cleared only section 3 and remaining 1020 candidates cleared only section 4. How many students appeared in the competitive exam ?

- A 2550
- B 2800
- C 3000

D 3200

Answer: C

Explanation:

Let total number of students = $100x$

$10x$ = students who cleared the cut off in all the sections

$5x$ = students who cleared none of the sections.

Remaining = $85x$

Out of these $85x$, 30% cleared only 1st section, 20% cleared only 2nd section, 30% cleared only section 3

Together they constitute 60% of $85x$

Remaining = 40% of $85x = 1020$

On solving $x = 30$

Total students = $100x = 100 \times 30 = 3000$

Question 116

A man sold $\frac{3}{5}$ th of his articles at a gain of 20% and the remaining at cost price. Find the gain earned in the transaction.

A 8

B 10

C 12

D 14

Answer: C

Explanation:

This can be solved in an easier manner by using allegations concept.

$$p = \frac{(p_1q_1 + p_2q_2)}{q_1 + q_2}$$
 where p_1, p_2 are profit percentages, q_1, q_2 are the number of articles, p is the overall profit percentage.

Here $q_1 = 3/5$, $q_2 = 2/5$, $p_1 = 20$, $p_2 = 0$

On solving you get p as 12

Question 117

A trader sells 20 articles at Rs. 54 per article after giving 10% discount and gains 50% profit. If the discount is not given, the profit gained is _____

A 56.76%

B 66.66%

C 62.66%

D 63.66%

Answer: B

Explanation:

$P = 50\%$ and $D = 10\%$

$$P = M - D - \frac{(M \cdot D)}{100}$$
 where p = profit%, M = markup%, D = discount%

$$50 = M - 10 - \frac{(M \cdot 10)}{100} \Rightarrow M = 66.66$$

So if he doesn't give any discount he will end up with 66.66% profit.

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Question 118

A bottle contains 50 liters of milk. From this bottle 5 liters of milk was taken out and replaced the water. This process was repeated further for three times. How much milk is now contained in the bottle ?

- A 36.45 litres
- B 34.4 litres
- C 36.8 litres
- D 46.5 litres

Answer: A

Explanation:

Final volume of Milk = Initial volume of milk $(1 - \frac{y}{x})^n$

where y=quantity of milk removed in each iteration , x= total quantity of the mixture and n=number of times the process being repeated

Final volume of milk = $50 \cdot (1 - \frac{5}{50})^3$

Question 119

A ball is dropped from a height of 200 meters. After striking the floor it re-bounces to $\frac{4}{5}$ th of the height from where it fell. The total distance it travels before coming to rest is ____

- A 1200 meters
- B 1600 meters
- C 1800 meters
- D 1820 meters

Answer: C

Explanation:

For the 1st drop the distance travelled by the ball = 200m

After 1st drop it rebounces to a height of $\frac{4}{5} * 200$ and then falls from that height . The total distance travelled in this case would be $2 \cdot \frac{4}{5} \cdot 200$

Similarly the total distance travelled in next case would be $2 \cdot \frac{4}{5} \cdot \frac{4}{5} \cdot 200$

So total distance =

$$200 + 2 \cdot 200 \cdot \left(\frac{4}{5} + \left(\frac{4}{5}\right)^2 + \left(\frac{4}{5}\right)^3 + \dots \right)$$

$$200 + 400 \left(\frac{4}{1 - \frac{4}{5}} \right) = 1800\text{m}$$

Question 120

The sum of all two digit numbers that give a remainder 2 when they are divided by 7 is _____

- A 552
- B 654

C 658

D 684

Answer: B

Explanation:

$\frac{12}{2} (16 + 93)$ The numbers will be of the form $7k+2$ where k is a whole number.

The smallest two digit number is when $k=2$ which is 16 and the largest 2 digit number is 93 $k= 13$

So sum = $16+23+\dots +93$ which are in AP.

Sum to n terms of an AP = $n/2(a+l)$, where n =number of terms, a =1st term, l =last term

Here $n=12$, $a=16$, $l=93$

Hence sum = 654

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Question 121

A man covers half of his journey by train at 90 km/hr, one-third of the remainder by bus at 30 km/hr and the rest by cycle at 10 km/hr. The average speed during the entire journey is _____

A 22.5 km/hr

B 28.5 km/hr

C 30.0 km/hr

D 32.5 km/hr

Answer: A

Explanation:

Average speed = Total distance/total time

Let us consider total distance = 180km

Case 1 : man covers half of his journey by train at 90 km/hr

Distance = 90km \Rightarrow time $t_1 = \frac{90}{90} = 1$ hr

Remaining distance = 90km

Case 2 : man covers one-third of the remainder by bus at 30 km/hr

Distance = 30km \Rightarrow time $t_2 = \frac{30}{30} = 1$ hr

Case 3 : man covers rest by cycle at 10 km/hr

Distance = 60km \Rightarrow time $t_3 = \frac{60}{10} = 6$ hr

Therefore Average speed = $\frac{180}{1+1+6} = 22.5$ km/hr

Question 122

John's grandfather was five times older to him 5 years ago. He would be two times of his age after 25 years from now. What is the ratio of John's age to that of his grandfather ?

A 7 : 11

B 5 : 11

C 3 : 11

D 4 : 11

Answer: C

Explanation:

Let age of john 5 years ago be x years

age of his grandfather 5 years ago will be $5x$

25 years from now there ages will be $x+30$ and $5x+30$ respectively

Given $5x+30 = 2(x+30) \Rightarrow x=10$

So there present ages would be $x+5=15$ and $5x+5=55$

Ratio = 3:11

Question 123

A number when successively divided by 5 and 6 gives remainders 3 and 2 respectively. What will be the remainders if the number is successively divided by 3 and 4 ?

A 2, 3

B 2, 1

C 1, 2

D 3, 4

Answer: C

Explanation:

Going in the reverse order

When number is divided by 6, the remainder is 2 \Rightarrow the number is of the form $6k+2$

When $6k+2$ is divided by 5, the remainder is 3 \Rightarrow the number is of the form $5(6k+2)+3 = 30k+13$

When $30k+13$ is divided by 3, the remainder is 1.

The remaining is $30k + 12$, so when $30k+12$ is divided by 4, the remainder is 2

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Question 124

How many zeros would be there in $1024!$

A 240

B 248

C 256

D 253

Answer: D

Explanation:

The number of zeros in $n!$ = highest power of 5 in $n!$

Highest power of 5 in $1024! = \left[\frac{1024}{5} \right] + \left[\frac{1024}{25} \right] + \left[\frac{1024}{125} \right] + \left[\frac{1024}{625} \right]$ where $[]$ is the greatest integer function.

Highest power of 5 in $1024! = 204 + 40 + 8 + 1 = 253$

Question 125

If $x = 3 + 2\sqrt{2}$ what will be the value of $X^2 + \left(\frac{1}{X^2}\right)$?

- A 35
- B 32
- C 36
- D 34

Answer: D

Explanation:

$$X = 3 + 2\sqrt{2}$$

$$\frac{1}{x} = 3 - 2\sqrt{2}$$

$$x^2 + \frac{1}{x^2} = \left(x + \frac{1}{x}\right)^2 - 2 = 6^2 - 2 = 34$$

Question 126

The unit digit in the final solution when, $13 \times 27 \times 63 \times 51 \times 98 \times 46$ is

- A 4
- B 8
- C 2
- D none of the above

Answer: A

Explanation:

For calculating the units digit, you only take last digit in each number and start multiplying them and when ever a 2 digit number is generated, you take only the units digit of that as well and go on.

$$\text{Therefore } 13 \times 27 \times 63 \times 51 \times 98 \times 46 = 3 \times 7 \times 3 \times 1 \times 8 \times 6 = 21 \times 3 \times 1 \times 8 \times 6 = 1 \times 3 \times 1 \times 8 \times 6 = 24 \times 6 = 4 \times 6 = 24 = 4$$

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Question 127

A dishonest seller sells his grocery items using a false weight and thus gains 5% for a kilogram, he uses the weight of approximately

- A 940.251
- B 943.123
- C 948.238
- D 952.381

Answer: D

Explanation:

Let us assume that he uses x grams of weight instead of 1000gm.

$$\text{Now, } SP = CP \times \frac{1000}{x}$$

$$\frac{SP}{CP} = \frac{1000}{X}$$

$$\frac{SP}{CP} - 1 = \frac{1000}{X} - 1$$

$$\frac{5}{100} = \frac{1000}{X} - 1$$

$$\frac{5}{100} + 1 = \frac{1000}{X}$$

$$\frac{105}{100} = \frac{1000}{X}$$

$$X = 952.381$$

Question 128

A, B and C can do a work in 6, 8 and 12 days respectively. If they do the work together and earn Rs. 2700, what is the share of C in that amount ?

- A 600
- B 900
- C 1000
- D 700

Answer: A

Explanation:

shares are divided in the ratio of their efficiency.

Let us assume that a work of 24 units is to be done

A does 4 units of work every day

B does 3 units of work everyday

C does 2 units of work everyday.

So shares will be divided in the ratio 4:3:2

So C's share will be $\frac{2}{9} \cdot 2700 = 600$ Rs

Question 129

How many words each of two vowels and three consonants can be formed from the letters of the word "UNIVERSAL" ?

- A 7000
- B 7200
- C 7400
- D 7800

Answer: B

Explanation:

The number of ways of selecting 2 vowels from U, I, A, E = ${}^4C_2 = 6$

The number of ways of selecting 3 consonants from N, V, R, S, L = ${}^5C_3 = 10$

After selecting you can arrange them in $5!$ ways.

Total number of words = $6 \cdot 10 \cdot 120 = 7200$

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Question 130

Three pipes A, B and C can fill a tank in 12 hours. All the pipes started working together and after 3 hours, C is closed. If A and B can fill the remaining part in 10 hours, then the number of hours taken by C alone to fill the tank is .

- A 100 hours

- B 110 hours
- C 120 hours
- D 130 hours

Answer: C

Explanation:

Let efficiencies of A,B,C be a,b,c respectively.

Given $a+b+c = \frac{W}{12} \Rightarrow \text{Total work} = 12(a+b+c)$

They worked together for 3 hours. So work done in 3 hours = $3(a+b+c)$

Remaining = $9(a+b+c)$ which is filled by a and b only in 10 hours

So $a + b = \frac{9(a+b+c)}{10}$

On solving $a+b=9c$

So $W = 12(9c+c) = 120c$

Time taken by C alone = $\frac{120c}{c} = 120$ hours

Question 131

If the numbers between 1 to 65 which will be divisible by 4 are taken and then if the number present in the units places and tens places is swapped, post which they are written in ascending order, then which of the following number will be at 10th place from the last ?

- A 40
- B 24
- C 44
- D 25

Answer: A

Question 132

Ajit, Ravi and Hari were trying to hit a target. If Ajit hits the target 5 times in 8 attempts, Ravi hits it 3 times in 5 attempts and Hari hits it 2 times in 4 attempts. What is the probability that the target is hit by at least 2 persons ?

- A 40
- B 24
- C 44
- D 25

Answer: B

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Question 133

If $\frac{1}{2} \log x + \frac{1}{2} \log y + \log 2 = \log(x + y)$, then

- A $x = -y$

B $x = y + 1$

C $x = y$

D $y = x + 1$

Answer: C

Explanation:

$$m\log(a) + n\log(b) = \log(a^m \cdot b^n)$$

Therefore the given LHS reduces to $\log(2\sqrt{xy})$ which is equal to $\log(x+y)$

Remove log on both sides

$$2\sqrt{xy} = x+y$$

$$(\sqrt{x})^2 + (\sqrt{y})^2 - 2\sqrt{x \cdot y} = 0$$

$$(\sqrt{x} - \sqrt{y})^2 = 0$$

$$\Rightarrow x=y$$

Question 134

$\log_5 25 + \log_2(\log_3 81)$ is

A 1

B 2

C 3

D 4

Answer: D

Explanation:

$$\log(a^m) = m \log(a) \text{ and } \log_a a = 1$$

$$\log_5 5^2 + \log_2(\log_3 3^4)$$

$$2 + \log_2 4$$

$$2 + \log_2 2^2$$

$$4$$

Question 135

Peter was standing on the top of a rock cliff facing the sea. He saw a boat coming towards the shore. As he kept seeing time just flew. Ten minutes less than half of an hour, the angle of depression changed from 30 to 60. How much more time in minutes will the boat take to reach the shore ?

A 5

B 10

C 15

D 20

Answer: B

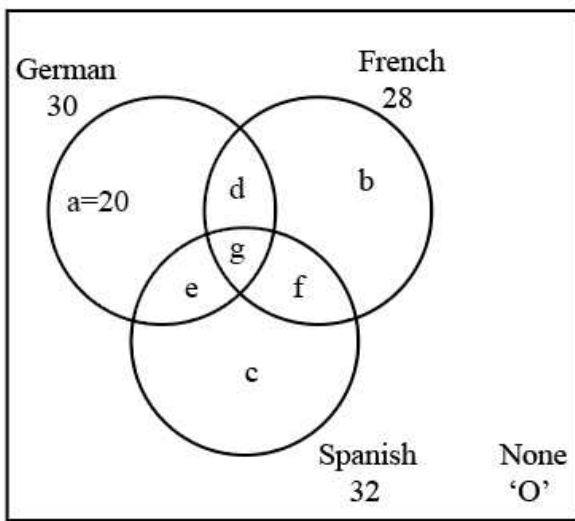
Question 136

In a school where there was a compulsion to learn at least one foreign language from the choice given to them, namely German, French and Spanish. Twenty eight students took French, thirty took German and thirty two took Spanish. Six students learnt French and German, eight students learnt German and Spanish, ten students learnt French and Spanish. Fifty four students learnt only one foreign language while twenty students learnt only German. Find the number of students in the school.

- A 60
- B 62
- C 70
- D none of the above

Answer: A

Explanation:



Exactly 1 subject = $a+b+c$ \rightarrow Represented by X

Exactly 2 subjects = $d+e+f$ \rightarrow Represented by Y

Exactly 3 subjects = g \rightarrow Represented by Z

So $X + Y + Z + \text{none} = \text{total}$ \rightarrow (I)

German + French + Spanish = $(a+b+c) + 2(d+e+f) + 3(g) = X + 2Y + 3Z$ \rightarrow (II)

So $X + 2Y + 3Z = 30 + 28 + 32 = 90$

Given $X = 54$

So $2Y + 3Z = 36$ \rightarrow (1)

Given ,

French and German = 6 $\Rightarrow d+g = 6$

German and Spanish = $e+g = 8$

French and Spanish = $f+g = 10$

adding all the three $(d+e+f) + 3g = 24$

$Y + 3Z = 24$ \rightarrow (2)

solving 1 and 2 you get $Y=12$ and $Z=4$

Therefore Total = $X+Y+Z+\text{None} = 54+12+4=70$

Question 137

Sonali can solve 70% of the problems in a competitive exam and Nirali can solve only 60% in the same exam. What is the probability that at least one of them will solve a problem, provided selection of questions is done randomly from the same exam ?

- A 0.82
- B 0.88
- C 0.62
- D 0.72

Answer: B

Question 138

Rs. XYZ was deposited at simple interest at a specific rate for 3 years. Had it been deposited at 2% higher rate, it would have fetched Rs. 360 more. Find Rs. XYZ.

- A Rs. 5500
- B Rs. 5000
- C Rs. 6000
- D Rs. 4500

Answer: C

Explanation:

Let the rate of interest be $x\%$ and Principal amount be P

$$\text{Simple interest in 1st case} = \frac{(P \cdot 3 \cdot X)}{100}$$

$$\text{Simple interest in 2nd case} = \frac{(P \cdot 3 \cdot (X+2))}{100}$$

Given the difference is 360

$$\frac{(3 \cdot P)}{100} (X + 2 - X) = 360$$

So on solving we get $P=6000$.

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Question 139

A man invests certain amount at 6% per annum simple interest and another amount at 7% per annum simple interest. His income from the interest after 2 years was Rs. 348. The ratio of first amount to second is 4:5. Find the total amount invested.

- A Rs. 2600
- B Rs. 2900
- C Rs. 2700
- D none of the above

Answer: D

Explanation:

Let the total amount invested be $9x$

$$\text{So the interest for 2 years on } 4x \text{ amount} = \frac{(4x \cdot 2 \cdot 6)}{100}$$

$$\text{the interest for 2 years on } 5x \text{ amount} = \frac{(5x \cdot 2 \cdot 7)}{100}$$

Given, Sum of these = 348

$$1.18x = 348 \Rightarrow x \approx 295$$

So total amount invested = 2655

Question 140

A person has a bag which contains 9 bulbs out of which 2 are fused and cannot be used to lighten the room. Two bulbs are selected at random. What is the probability that all the two bulbs chosen can be used to lighten the room ?

A $\frac{5}{12}$

B $\frac{7}{12}$

C $\frac{9}{12}$

D $\frac{10}{12}$

Answer: B

Explanation:

Probability = Number of favourable cases/ total number of cases

favourable cases = 7C_2

total cases = 9C_2

$$\text{Probability} = \frac{{}^7C_2}{{}^9C_2} = \frac{7}{12}$$

Question 141

The value of $(p-a) * (p-b) * (p-c) \dots \dots \dots * (p-z)$ is _____

A A complex polynomial which starts with p^{24}

B Zero

C A complex polynomial which starts with p^{26}

D A complex polynomial which has several variables including p^{26} and p^{24}

Answer: D

Explanation:

If the question would have been "can be", then all the options would have been correct but since it has been given as 'is', only option d satisfies.

Option A: The polynomial can start with any power of p. The order of powers of p does not make any difference.

Option B: It is possible only when $p = a$ or b or $c \dots \dots$ or z

Option C: The polynomial can start with any power of p. The order of powers of p does not make any difference.

Option D: This is true in all the cases.

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Question 142

There are nine humans in a ship, each human has nine cages and each cage has nine huge lions and each lion has nine cubs. How many legs are there in the ship ? (Human have two legs, lions have four legs, cubs have four legs.)

A 747

B 3258

C 29178

D 26561

Answer: C

Explanation:

Total number of humans = 9 => total legs = $9 \times 2 = 18$

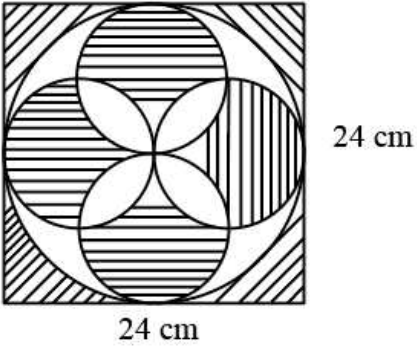
Total number of lions = $9 \times 9 \times 9$ => total legs = $9 \times 9 \times 9 \times 4 = 2916$

Total number of cubs = $9 \times 9 \times 9 \times 9$ => total legs = $9 \times 9 \times 9 \times 9 \times 4 = 26244$

So total legs = 29178

Question 143

As shown in the figure, there is a square of 24 cm. A circle is inscribed inside the square. Inside the circle are four circles of equal radius which are inscribed. The total area of the shaded region in the figure given below is _____



A $576 - 196\pi$

B $584 - 196\pi$

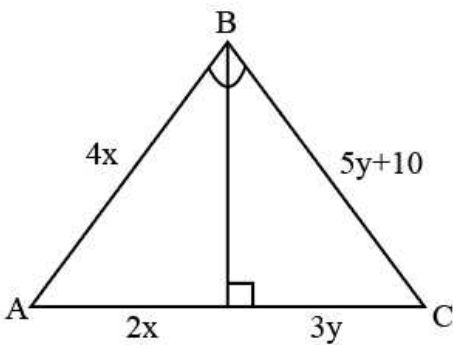
C $864 - 196\pi$

D none of the above

Answer: D

Question 144

In the figure given below the value of x and y would be _____



A 10 and 15

B 15 and 10

C 06 and 12

D 12 and 06

Answer: B

Explanation:

Let the point between A and C be D

Triangle ABD and Triangle BCD are congruent using ASA congruency

Therefore $2x=3y$ and $4x=5y+10$

On solving $X=15$ and $Y=10$

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Question 145

Mr. Suresh went into a restaurant and had a happy lunch for Rs.162. He paid for the same using a 500 rupee note. He was so happy with the meal and hence purchased a mini snack box for Rs. 37 and paid for the same using a 100 rupee note. Mr. Suresh ensured that he collected the balance from the cashier in both cases. Although he was satisfied with the service, he did not pay any tips to the server. The next day when the cashier went and deposited the money in the bank, it was found by the banker that only the two currency notes which were given by Mr. Suresh were counterfeit notes. As per policy, the bank immediately tore both the notes using their shredding machine. What is the total loss to the restaurant in this transaction ?

- A 1200
- B 600
- C 7991
- D none of the above

Answer: B

Explanation:

Total loss would be = Cost of food + Change that restaurant has given suresh

$$= 162+37 + 338+63=600$$

Question 146

If $2^x + 2^{x+1} = 48$, then the value of x^x is

- A 4
- B 64
- C 256
- D 16

Answer: C

Explanation:

$$2^x + 2^x \cdot 2 = 48$$

$$2^x (1 + 2) = 48$$

$$2^x = 16$$

$$x=4$$

$$4^4 = 256$$

Instructions

Following table shows the percentage population of six states below poverty line and proportion of male and female.

State	% Population below poverty line	Proportion of male & female	
		Below Poverty line	Above Poverty line
		M:F	M:F
A	16	2:3	3:4
B	10	4:3	5:2
C	14	3:4	2:3
D	20	5:2	4:3
E	25	4:1	2:1
F	20	2:3	4:1

Question 147

If the total population of state A is 5000 then what is the no. of females above poverty line in state A?

- A 2000
- B 2400
- C 2600
- D data inadequate

Answer: B

Explanation:

Total population of A=5000

Population of A below poverty line =16% => population of A above poverty line = 84% = 4200

Number of females above poverty line in A = $\frac{4}{7} \cdot 4200 = 2400$

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Question 148

If the population of C&D together is 20000 what is the total no. of females below poverty line in the above states?

- A 5000
- B 6000
- C 7200
- D NOTA

Answer: D

Explanation:

Since the individual populations of C and D aren't given, the number of females below poverty line cannot be determined.

Question 149

If the population of males below poverty line in state C is 6000 & state E 1000 then what is the ratio of the total population of state C&E is

- A 2 : 1
- B 3 : 5
- C 11 : 5

D NOTA

Answer: D

Explanation:

Let total population of C and E be $100x$ and $100y$ respectively.

Number of males below poverty line in C = $\frac{3}{7} \cdot 14x = 6x = 6000 \Rightarrow x=1000$

Number of males below poverty line in E = $\frac{4}{5} \cdot 25y = 20y=1000 \Rightarrow y= 50$

Hence ratio = 20:1

Question 150

If in state F population of females below poverty line is 16000, then what is the population of males below poverty line in that state?

A 8000

B 6000

C 12000

D NOTA

Answer: D

Explanation:

Let total population of F be $100x$

Population below poverty line = $20x$

Females below poverty line = $\frac{3}{5} \cdot 20x = 12x = 16000$

$\Rightarrow x= 1333.333$

Males below poverty line = $\frac{2}{5} \cdot 20x = 8x = 10666.66$

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