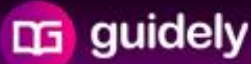


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General Awareness

1) Who was the Home Minister of Pakistan till 12 Dec 2020?

- a) Ahsan Iqbal
- b) Ijaz Shah
- c) Shiekh Rasheed Ahmed
- d) Chaudhry Nisar Ali Khan

Answer: b)

Ijaz Ahmed Shah is a Pakistani politician and former officer of the Pakistan Army. He served as the Federal Minister for interior from April 2019 to 11 December 2020.

2) In which year Article 35 A came into force?

- a) 1955
- b) 1945
- c) 1954
- d) 1941

Answer: c)

Article 35A of the Indian Constitution was an article that empowered the Jammu and Kashmir state's legislature to define "permanent residents" of the state and provide special rights and privileges to them. It was added to the Constitution through The Constitution (Application to Jammu and Kashmir) Order, 1954 issued by the President of India under Article 370.

3) Oxalic acid is found in which of the following vegetable?

- a) Tomato
- b) Oranges
- c) Grapefruits

d) Berries

Answer: a)

Oxalic acid is an organic compound found in many plants. These include leafy greens, vegetables, fruits, cocoa, nuts and seeds. Tomato contains more than 10 types of acids such as citric acid, malic acid, ascorbic acid and oxalic acid.

4) Pellagra is caused by the deficiency of which vitamin?

- a) Vitamin D
- b) Vitamin E
- c) Vitamin K
- d) Vitamin B3

Answer: d)

Pellagra is a disease caused by low levels of niacin, also known as vitamin B-3. It is marked by dementia, diarrhea, and dermatitis. If left untreated, pellagra can be fatal.

5) Patloi dress belongs to which state?

- a) Mizoram
- b) Manipur
- c) Tripura
- d) Nagaland

Answer: b)

The Patloi costume is mostly worn by the female performers or dancers in Manipur. These costumes donned by the Manipuri dancers are royally studded with ornaments, are attractive and very colorful.

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6) The United Nations was awarded the Nobel Peace Prize in which year?

- a) 2005
- b) 2001
- c) 2007
- d) 2009

Answer: b)

The United Nations and its Secretary-General Kofi Annan were awarded the Nobel Peace Prize in 2001 "for their work for a better organized and more peaceful world".

7) Who was the first person to hoist the Indian flag and where?

- a) Sachindra Prasad Bose in Calcutta
- b) Bhagat Singh in Lahore
- c) Vir Sarvakar in Haripura
- d) Nandanlal Bose in Nagpur

Answer: a)

The Indian National flag was designed by the Pingali Venkayya, an agriculturist and Indian freedom fighter. The flag was hoisted first time by Sachindra Prasad Bose in 1906 in Calcutta.

8) The Cabinet Mission which envisaged the establishment of a Constituent Assembly was started in _____.

- a) 1944
- b) 1946
- c) 1955
- d) 1965

Answer: b)

The Cabinet Mission, 1946 envisaged the establishment of a Constituent Assembly to frame the Constitution as well as an interim government. The Muslim League

accepted the plan, but it was partially accepted by the Congress.

9) Indian Rebellion of 1857 was started by whom?

- a) Liyaqat Ali
- b) Azimullah Khan
- c) Maulavi Ahmadullah
- d) Sepoy Mangal Pandey

Answer: d)

The Revolt of 1857 was the first rebellion against the British East India Company. The issue of greased cartridges and military grievances has been over-emphasized, as the factor for the Revolt of 1857. In fact, the multiple causes, i.e., social-religious-political-economic worked together to produce the rebellion. Sepoy Mangal Pandey started the revolt on 29 March 1857 at Barrackpore.

10) What cannot be digested by the Human Body?

- a) Sugars
- b) Starch
- c) Fiber
- d) Both a and b

Answer: c)

Fiber is one kind of carbohydrate. It is sometimes called roughage or bulk. It is the part of plant foods that our bodies do not break down during digestion.

11) Statue of which Goddess is there in the Jnanpith Award?

- a) Saraswati
- b) Lakshmi
- c) Ganga
- d) Tusli

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Answer: a)

Jnanpith Award is an Indian literary award presented annually by the Bharatiya Jnanpith to an author for their "outstanding contribution towards literature". It was instituted in 1961. It consists of a citation plaque, a cash prize of ₹11 lakh and a bronze replica of Saraswati, the Hindu goddess of knowledge and wisdom.

12) Brihadisvara Temple is located in which Indian state?

- a) Kerala
- b) Andhra Pradesh
- c) Tamil Nadu
- d) Telangana

Answer: c)

Brihadishvara Temple is a Hindu temple dedicated to Shiva located in South bank of Kaveri river in Thanjavur, Tamil Nadu. It is one of the largest South Indian temples and an exemplary example of Tamil architecture.

13) South Button National Park is located in which state/UT?

- a) Andaman and Nicobar
- b) Chandigarh
- c) Goa
- d) Maharashtra

Answer: a)

South Button Island National Park is a national park located in the Andaman and Nicobar Islands off the coast of India. It is the smallest National park in India.

14) Which state used the EVM machine first time for voting?

- a) Maharashtra
- b) Kerala

c) Uttar Pradesh

d) West-Bengal

Answer: b)

The Electronic Voting Machine (EVM), the replacement of the ballot box is mainstay in the electoral process. First time use of EVMs occurred in the general election in Kerala in May, 1982.

15) Who was the Chairman of ISRO during Chandrayaan-1 Mission?

- a) G. Madhavan Nair
- b) Shailesh Nayak
- c) K. Sivan
- d) A. S. Kiran Kumar

Answer: a)

Chandrayaan-1 was the first Indian lunar probe under Chandrayaan program. It was launched by the Indian Space Research Organisation in October 2008. G. Madhavan Nair was the Chairman of ISRO during Chandrayaan-1 Mission.

16) Hotmail, one of the world's first webmail services was launched in which year?

- a) 1991
- b) 1998
- c) 1999
- d) 1996

Answer: d)

Hotmail was one of the world's first webmail services. It was launched in 1996 by Sabeer Bhatia and Jack Smith in California.

17) Poona pact 1932, that granted new rights to the untouchables was signed between whom?

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- a) Jawaharlal Nehru and Mahatma Gandhi
- b) B.R Ambedkar and Mahatma Gandhi
- c) B.R Ambedkar and Lala Lajpat rai
- d) Bal Gangadhar Tilak and Mahatma Gandhi

Answer: b)

The Poona Pact refers to an agreement between B. R. Ambedkar and Mahatma Gandhi on the reservation of electoral seats for the depressed classes in the legislature of British India government. It was made on 24 September 1932 at Yerwada Central Jail in Poona, India and was signed by Mahatma Gandhi and B.R Ambedkar.

18) IIT Gandhinagar has invented world's thinnest material made up of_____.

- a) Aluminium
- b) Copper
- c) Boron
- d) Germanium

Answer: c)

A team of the Indian Institute of Technology, Gandhinagar achieved a scientific triumph by creating the world's first nanosheets made of boron. The nanosheets which are only three atoms thick are among the thinnest materials crafted by humankind.

19) Ringworm, a common infection of the skin and nails is caused by_____.

- a) fungus
- b) bacteria
- c) virus
- d) protozoa

Answer: a)

Ringworm is a contagious fungal infection caused by common mold-like parasites that live on the cells in the

outer layer of your skin. It can be spread from Human to human through skin-to-skin contact with an infected person.

20) The Rythu Bandhu scheme is a farmer investment scheme of which state?

- a) Tamil Nadu
- b) Kerala
- c) Karnataka
- d) Telangana

Answer: d)

Rythu Bandhu scheme is the first ever farmer investment support scheme in India . It is a welfare program to support farmer's investment for two crops a year by the Government of Telangana. The government provides 60 lakh farmers, ₹5000 per acre per season to support the farm investment, twice a year, for rabi and kharif seasons.

21) Who among the following was the leader of the Brahmo Samaj?

- a) Rammohan Roy
- b) Radhakant Dev
- c) Syed Ahmad Khan
- d) Keshab Chandra Sen

Answer: d)

Raja Ram Mohan Roy is regarded as Father of Modern India who founded the first religious reform organisation i.e. Brahmo Samaj in 1828. The two most prominent leaders of the Brahmo Samaj were Debendranath Tagore and Keshab Chandra Sen.

22) Golconda Fort, is located in which city?

- a) Hyderabad
- b) Pune

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c) Chennai

d) Bhopal

Answer: a)

Golconda Fort is a fortified citadel and an early capital city of the Qutb Shahi dynasty, located in Hyderabad, Telangana, India. It is flourished as a trade centre of large diamonds, known as the Golconda Diamonds.

23) Mary Kom, an Indian amateur boxer is a resident of which state?

a) Mizoram

b) Meghalaya

c) Manipur

d) Maharashtra

Answer: c)

Mary Kom is an Indian boxer, politician, and incumbent Member of Parliament, Rajya Sabha. She was born in Kangathei village, Moirang Lamkhai in Churachandpur district of rural Manipur in India.

24) Which of the following is the motif behind 50 rupee note?

a) Hampi with Chariot

b) Sanchi Stupa

c) Red Fort

d) Swachh Bharat logo

Answer: a)

The present ₹50 banknote in circulation is a part of the Mahatma Gandhi New Series of banknotes. The base colour of the new note is fluorescent blue. It has a motif of Hampi with Chariot on the reverse, depicting the country's cultural heritage.

25) 'Five Point Someone' is a book authored by whom?

a) Ruskin Bond

b) Chetan Bhagat

c) Aravind Adiga

d) Vikram Seth

Answer: b)

Five Point Someone: What not to do at IIT is a 2004 novel written by Indian author Chetan Bhagat. The Hindi movie 3 Idiots is based on this book.

26) Rann Utsav is celebrated in which of the following state?

a) Tamil Nadu

b) Odisha

c) Gujarat

d) Sikkim

Answer: c)

Rann Utsav is one of the most vibrant and unique festivals in India. It is celebrated in the Indian state of Gujarat.

27) Which one of the following gas is filled in Chips packet?

a) Hydrogen

b) Nitrogen

c) Oxygen

d) Carbon Dioxide

Answer: b)

Nitrogen is an inert gas, and is used during the packaging process. It is filled in all packed items to prevent spoilage.

28) Which cell-organelle is known as the 'power-house of the cell'?

a) Mitochondria

b) Lysosomes

c) Golgi-Bodies

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d) Ribosome

Answer: a)

Mitochondria are known as the powerhouse of the cell because it is responsible for the extracting energy from food through cellular respiration. The energy is released in the form of adenosine triphosphate (ATP) which is an energy currency of the cell.

29) Wangala festival is celebrated in_____.

- a) Meghalaya
- b) Tripura
- c) Karnataka
- d) Telangana

Answer: a)

Wangala also called the festival of "The Hundred Drums" is a harvest festival celebrated by the Garo tribe, who live in Meghalaya, Nagaland and Assam in India. In this post harvest festival, they give thanks to Misi Saljong the sun god, for blessing the people with a rich harvest.

30) Which of the following Constitutional Amendment Act is also popularly known as the Mini Constitution?

- a) 42nd Amendment act, 1976
- b) 44th Amendment act, 1978
- c) 43rd Amendment act, 1977
- d) 55th Amendment act, 1986

Answer: a)

The 42nd amendment to Constitution of India, officially known as Forty-second amendment Act, 1976, was enacted during the Emergency by the Indian National Congress government headed by Indira Gandhi. The 42nd Amendment of Indian Constitution is most comprehensive amendment to the Constitution and carried out major changes. It is also known as "mini constitution".

31) Which of the following metal is also known as 'Wolfram'?

- a) Iron
- b) Lead
- c) Aluminium
- d) Tungsten

Answer: d)

Tungsten also know as wolfram, is a chemical element with the symbol W and atomic number 74. Tungsten is a rare metal found naturally on Earth.

32) Who was the first National Security Advisor of India?

- a) M. K. Narayanan
- b) Shivshankar Menon
- c) Brajesh Mishra
- d) J. N. Dixit

Answer: c)

Brajesh Chandra Mishra was an Indian diplomat and politician, best known for serving as Prime Minister Atal Bihari Vajpayee's principal secretary and the first National Security Advisor from 1998 to 2004.

33) How many members are there in the Monetary Policy Committee of RBI?

- a) Six
- b) Three
- c) Five
- d) Ten

Answer: a)

The Monetary Policy Committee is responsible for fixing the benchmark interest rate in India. The committee comprises six members- three officials of the Reserve Bank of India and three external members nominated by

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the Government of India. The Governor of Reserve Bank of India is the chairperson ex officio of the committee.

34) In the event of death or resignation of the President, who discharges the duties of the office of President?

- a) Election Commissioner
- b) Prime Minister
- c) Vice-President
- d) Chief Justice of India

Answer: c)

The Vice President of India is the second-highest constitutional office in India after the President. Article 65 of the Indian constitution says that the Vice-President of India will have to discharge the duties, if the office of President falls vacant due to any reason other than the expiry of the term.

35) The Comptroller and Auditor General is appointed by whom?

- a) The Prime Minister
- b) The President
- c) The Parliament
- d) The Home Minister

Answer: b)

The Comptroller and Auditor General (CAG) of India is an authority, established by Article 148 of the Constitution of India. The Comptroller and Auditor-General of India is appointed by the President of India following a recommendation by the Prime Minister. He holds office for a period of six years or up to the age of 65 years, whichever is earlier.

36) Guindy National Park is in which city of Tamil Nadu?

- a) Salem

b) Chennai

c) Vellore

d) Erode

Answer: b)

Guindy National Park is a protected area of Tamil Nadu, located in Chennai. It is the 8th-smallest National Park of India and one of the very few national parks situated inside a city.

37) What is the rank of India in World Happiness Report 2020?

- a) 144
- b) 151
- c) 135
- d) 115

Answer: a)

The World Happiness Report is a publication of the United Nations Sustainable Development Solutions Network. India ranked 144 in World Happiness Report 2020 out of 156 countries.

38) Who is the newly appointed CEO of HDFC Bank?

- a) Malay Patel
- b) Sashidhar Jagdishan
- c) Kaizad Bharucha
- d) Umesh Chandra Sarangi

Answer: b)

Sashidhar Jagdishan has taken charge as managing director and chief executive officer of HDFC Bank. He succeeded Aditya Puri.

39) Who has recently won the Formula One Spanish Grand Prix 2020?

- a) Michael Schumacher

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- b) Peter Ashdown
- c) Lewis Hamilton
- d) Sebastian Vettel

Answer: c)

The 2020 Spanish Grand Prix was a Formula One motor race held on 16 August 2020 at the Circuit de Barcelona-Catalunya in Montmelo, Spain. It was won by Lewis Hamilton.

40) Who is the current Chief Minister of Assam?

- a) Prafulla Kumar Mahanta
- b) Bhumidhar Barman
- c) Tarun Gogoi
- d) Sarbananda Sonowal

Answer: d)

Sarbananda Sonowal is an Indian politician and current Chief Minister of Assam, Sonowal. He was elected as the Chief Minister of Assam in 2016.

Logical Reasoning

1. In a certain code language, 'HIM' is written as 'HER', then how is 'DOG' written in that language?

- a) BITCH
- b) COCK
- c) HEN
- d) HARE

Answer: A

HIM is used for male and HER is used for female.

DOG is male and BITCH is female.

2. The ration of Ram and Shyam's present age is 8 : 13 and the difference in their age is 15 years. Find the sum of their age after 12 years.

- a) 63 years

b) 51 years

c) 87 years

d) 75 years

Answer: C

According to question:

$$13x - 8x = 15$$

$$\Rightarrow 5x = 15$$

$$\Rightarrow x = 3$$

So, sum of their age after 12 years = $(8 + 13) \times 3 + 12 + 12$

$$= 21 \times 3 + 24$$

$$= 63 + 24$$

$$= 87$$

3. In a certain code language, 'WRITER' is written as 'EIRRTW', then how is 'AUTHOR' written in that language?

- a) AHROTU
- b) AOHRTU
- c) AHORTU
- d) AHOTRU

Answer: C

Letters are written in the sequence they appear in the English alphabetical series.

4. Complete the analogy.

$$RW : ID :: YT : ?$$

- a) GB
- b) LM
- c) ML
- d) BG

Answer: D

Letters are coded by their reverse letter.

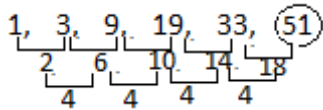
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5. Complete the series.

1, 3, 9, 19, 33, ?

- a) 53
- b) 51
- c) 71
- d) 49

Answer: B



6. 'High' is related to 'low' in the same way as 'Robust' is related to '___'.

- a) Strong
- b) Powerful
- c) Vigorous
- d) Weak

Answer: D

High is antonym of low.

Similarly,

Robust is antonym of weak.

7. In the given options three are similar one is odd. Find the option that is not similar to the other ones.

- a) Correction
- b) Improvement
- c) Betterment
- d) Elevation

Answer: D

All options except 'd' are synonyms.

8. Find the wrong term in the following series.

A, E, I, P, U

- a) A
- b) I

c) P

d) U

Answer: C

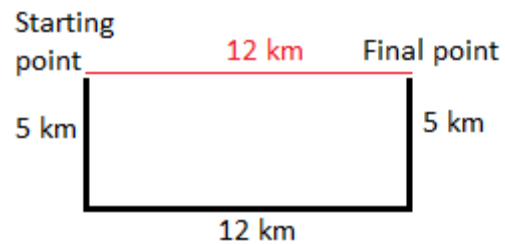
P is the wrong term.

Vowel series: A, E, I, O, U

9. Ramesh is facing south. After walking 5 km he turned to his left and walked 12 km. Again turning to his left he covered 5 km. How far is he now from his starting point?

- a) 5 km
- b) 12 km
- c) 13 km
- d) 0 km

Answer: B



10. RHYTHM : 20627181011 :: QUARTY :: ?

- a) 19191362223
- b) 19193162223
- c) 19193126223
- d) 19913162223

Answer: B

$R + 2 = 20$ $Q + 2 = 19$

$H - 2 = 6$ $U - 2 = 19$

$Y + 2 = 27$ $A + 2 = 3$

$T - 2 = 18$ $R - 2 = 16$

$H + 2 = 10$ $T + 2 = 22$

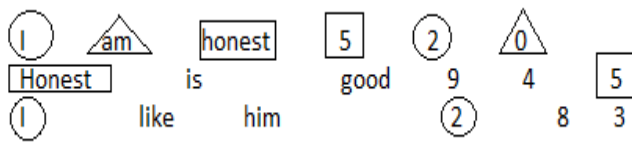
$M - 2 = 11$ $Y - 2 = 23$

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11. In a certain code language, 'I am honest' is written as '5 2 0', 'Honest is good' is written as '9 4 5', and 'I like him' is written as '2 8 3', then find the code for 'am'.

- a) 5
- b) 0
- c) 2
- d) Cannot be determined

Answer: B



12. Select the pair that is related in the same way as the pair given below.

Duralumin : Aircraft

- a) Brass : Alloy
- b) Stone : Sculptor
- c) Iron : Steel
- d) Bronze : Statue

Answer: D

Duralumin is used to make aircrafts.

Similarly,

Bronze is used to make statues.

13. In each question below is given a statement followed by two assumptions numbered I and II. You have to consider the statement and the following assumptions and decide which of the assumptions is implicit in the statement.

Statement:

Government has permitted unaided colleges to increase their fees.

Assumptions:

- I. Unaided colleges are in financial difficulties.

II. Aided colleges do not need to increase fees.

- a) Only assumption I is implicit
- b) Both I and II are implicit
- c) Neither I nor II is implicit
- d) Only assumption II is implicit

Answer: A

14. In the question two statements are given, followed by two conclusions, I and II. You have to consider the statements to be true even if it seems to be at variance from commonly known facts. You have to decide which of the given conclusions, if any follows from the given statements.

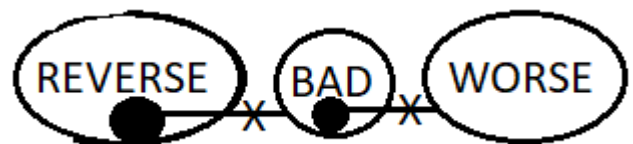
Statement:

- I. Some bad are not worse.
- II. Some reverse is not bad.

Conclusion:

- I. Some bad is not reverse.
- II. Some worse is not bad.
- a) Only conclusion II follows
- b) Only conclusion I follows
- c) Neither I nor II follows
- d) Both I and II follow

Answer: C



- I. Some bad is not reverse. → False
- II. Some worse is not bad. → False

15. In each question below is given a statement followed by two assumptions numbered I and II. You have to consider the statement and the following assumptions and

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decide which of the assumptions is implicit in the statement.

Statement:

Be humble even after being victorious.

Assumptions:

I. Many people are humble after being victorious.

II. Generally people are not humble.

- a) Only assumption I is implicit
- b) Both I and II are implicit
- c) Neither I nor II is implicit
- d) Only assumption II is implicit

Answer: D

16. Which two signs should be interchanged to correct the given equation?

$$12 \div 2 - 6 \times 3 + 8 = 16$$

- a) \times and $-$
- b) $+$ and \times
- c) $+$ and $-$
- d) \div and $+$

Answer: C

Given: $12 \div 2 - 6 \times 3 + 8 = 16$

c) $+$ and $-$

$$12 \div 2 + 6 \times 3 - 8 = 16$$

$$\Rightarrow 6 + 18 - 8 = 16$$

$$\Rightarrow 24 - 8 = 16$$

$$\Rightarrow 16 = 16$$

Directions (18 – 19): Read the information given below and answer the questions based on it.

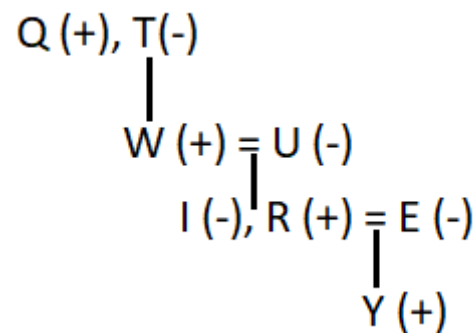
8 members of a family Q, W, E, R, T, Y, U and I went on a picnic. R is grandson of T. Q is maternal uncle of W, who is married to U. U is mother-in-law of E. I is paternal aunt of Y who is son of R. Number of male and female in the

family is equal. R is not female and the family consists of four generations and two married couples.

17. How is W related to I?

- a) Father
- b) Mother
- c) Son
- d) Daughter

Answer: A



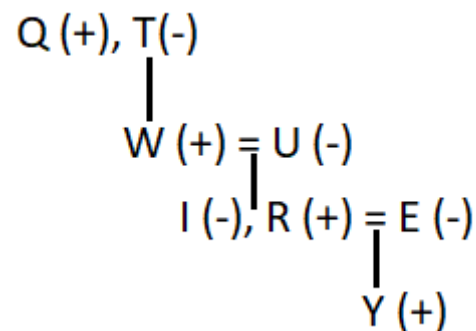
W is father of I.

18. T and Q are _____.

- a) Cousin
- b) Siblings
- c) In-laws
- d) Husband and Wife

Answer: A

T and Q are cousins.



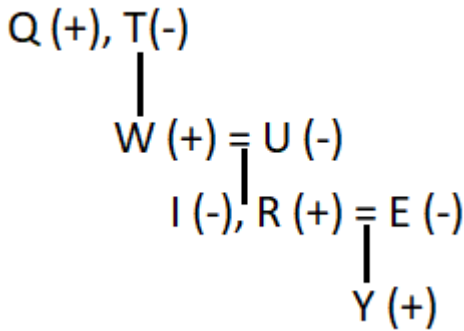
19. How is E related to I?

- a) Brother-in-law

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- b) Sister-in-law
- c) Father-in-law
- d) Daughter-in-law

Answer: B



E is Sister-in-law of I.

20. In the question two statements are given, followed by two conclusions, I and II. You have to consider the statements to be true even if it seems to be at variance from commonly known facts. You have to decide which of the given conclusions, if any follows from the given statements.

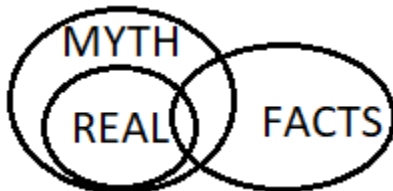
Statement:

- I. Some facts are real.
- II. All real is myth.

Conclusion:

- I. Some myth is fact.
 - II. Some myth is real.
- a) Only conclusion II follows
 - b) Only conclusion I follows
 - c) Neither I nor II follows
 - d) Both I and II follow

Answer: D



- I. Some myth is fact. - True
- II. Some myth is real. - True

21. If + means -, - means x, x means ÷ and ÷ means +, then the value of the given equation $12 + 3 - 5 \div 69 \times 23$ is

- a) 12
- b) 15
- c) 0
- d) 13

Answer: C

+	-	x	÷
-	x	÷	+

$$12 - 3 \times 5 + 69 \div 23 = ?$$

$$\Rightarrow 12 - 15 + 3 = ?$$

$$\Rightarrow 0 = ?$$

22. A statement is given below followed by two arguments.

Statement:

Should selection tests be of objective type rather than that of the descriptive type?

Arguments:

- I. Yes. The assessment of answers to objective type questions is fair and impartial.
 - II. No. The descriptive type is certainly a better tool than the objective type test.
- a) Only I is strong.
 - b) Only II is strong.
 - c) Both I and II are strong.
 - d) Neither I nor II is strong.

Answer: A

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23. Choose the correct option such that the third statement can be logically deduced from the first two statements.

- a) No S is P. All X is S. No X is P.
- b) No S is P. All X is D. All X is P.
- c) Some S is not P. Some X is not S. Some X is not P.
- d) Some S is not P. All X is S. All X is not P.

Answer: A

24. An assertion (A) and a reason (R) are given below.

Assertion (A): Indian President is the head of the state.

Reason (R): Indian Parliament consists of the Lok Sabha, Rajya Sabha and the President.

- a) Both A and R are true and R is the correct explanation of A.
- b) Both A and R are true but R is not the correct explanation of A.
- c) A is true, but R is false.
- d) A is false, but R is true.

Answer: B

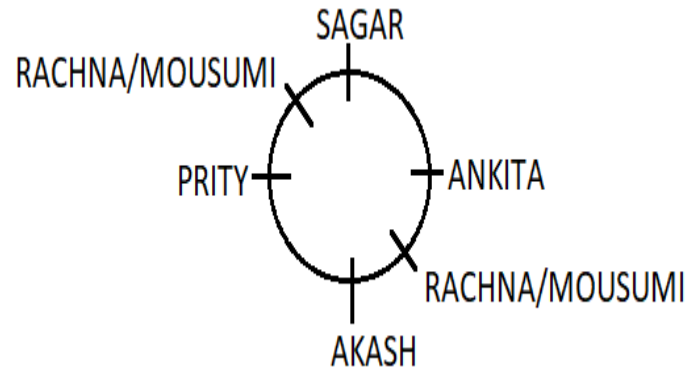
Directions (25 – 26): Answer the following questions based on the information given below.

Six friends Akash, Rachna, Sagar, Ankita, Mousumi and Prity are sitting around a circular table facing the centre. Mousumi is facing Rachna. Ankita is second to the right of Akash. Prity is not adjacent to Ankita or Rachna.

25. Who is facing Sagar?

- a) Akash
- b) Ankita
- c) Prity
- d) Cannot be determined

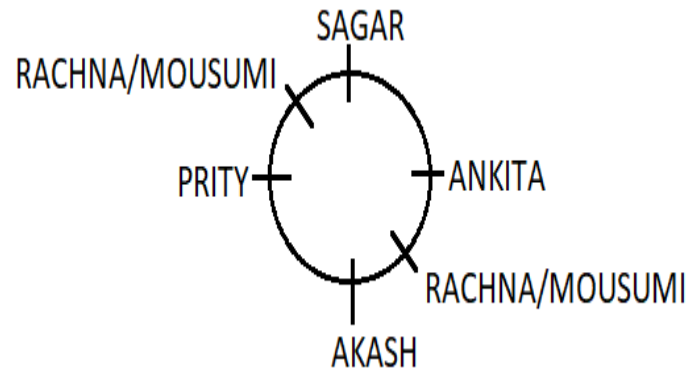
Answer: A



26. Who is sitting between Rachna and Prity?

- a) Akash
- b) Sagar
- c) No one
- d) Cannot be determined

Answer: D



27. Which of the following two numbers need to be interchanged to make the given equation correct?

$$45 - 9 \div 3 + 5 \times 6 = 32$$

- a) + and ×
- b) – and +
- c) + and ÷
- d) – and ÷

Answer: D

$$45 - 9 \div 3 + 5 \times 6 = 32$$

- d) – and ÷

$$45 \div 9 - 3 + 5 \times 6 = 32$$

$$\Rightarrow 5 - 3 + 5 \times 6 = 32$$

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=> $5 - 3 + 30 = 32$

=> $35 - 3 = 32$

=> $32 = 32$

28. Arrange the words given below in dictionary order.

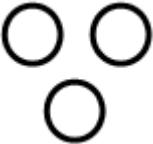


1. Attitude
 2. Assembly
 3. Associate
 4. Aviation
 5. Affirm
- a) 5, 2, 1, 3, 4
 - b) 5, 2, 3, 1, 4
 - c) 5, 3, 2, 1, 4
 - d) 5, 1, 3, 2, 4

Answer: B

5. Affirm
2. Assembly
3. Associate
1. Attitude
4. Aviation

29. Identify the diagram that best represents the relationship among the given classes.

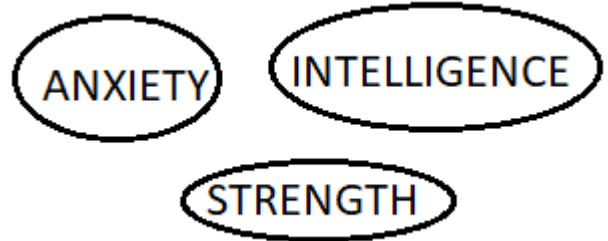
Anxiety, Intelligence, Strength

- a) 
- b) 
- c) 



d)

Answer: A

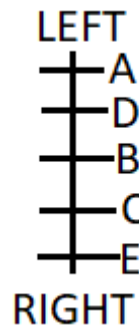


30. Five boys are standing in a row facing east. B is 2nd to the left of E. Only one person is standing between C and D. A is not an immediate neighbour of C. A is standing at the extreme left end.

Who is standing at the extreme right end?

- a) E
- b) D
- c) C
- d) B

Answer: A



Mathematics

1. Solve: $5 \times 0.005 \times 0.5 \times 500$.

- a) 6.25
- b) 62.5
- c) 0.625
- d) 0.0625

Answer: A

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$$5 \times 0.005 \times 0.5 \times 500$$

$$= 6.25$$

2. Pipe A can fill the tank in 8 hour, pipe B can fill the tank in 12 hour and pipe C can empty the tank in 4 hour, If they work together, in how many hours the tank will empty?

- a) 22 hour
- b) 24 hour
- c) 28 hour
- d) 30 hour

Answer: B

$$A's \text{ one hour work} = 1/8$$

$$B's \text{ one hour work} = 1/12$$

$$C's \text{ one hour work} = 1/4$$

$$\text{Together empty the tank in} = 1/8 + 1/12 - 1/4$$

$$= (3 + 2 - 6)/24 = -1/24$$

So, together they empty the tank in 24 hour.

3. A series 30, 20, 40, 10, 50, 70, 60, 80, 90 is given if we replace 30 by 100 then find the difference of median before and after replacing.

- a) 20
- b) 10
- c) 30
- d) 40

Answer: B

$$10, 20, 30, 40, 50, 60, 70, 80, 90$$

$$\text{Median} = 50$$

$$10, 20, 40, 50, 60, 70, 80, 90, 100$$

$$\text{Median} = 60$$

$$\text{Difference} = 60 - 50 = 10$$

4. A and B can complete a work in 18 days and B and C can complete a work in 24 days, A is twice efficient than C, then find B complete 1/3rd of work in how many days?

- a) 10 days
- b) 14 days

c) 16 days

d) 12 days

Answer: D

$$AB = 18 \text{ days}$$

$$BC = 24 \text{ days}$$

$$\text{LCM of 18 and 24} = 72$$

, Efficiency of A + B = 4 and B + C = 3, it means A's efficiency = 2, B's efficiency = 2 and C's efficiency is 1
So B complete a work 1/3rd work in $72 \times 1/2 = 36/3 = 12$ days

5. How many three digit numbers which is divisible by 7 and leaves remainder 3.

- a) 125
- b) 126
- c) 127
- d) 128

Answer: D

$$\text{Least 3 digit number} = 100/7 \approx 15$$

$$\text{Highest 3 digit number} = 999/7 \approx 142$$

$$\text{It means } 142 - 15 + 1 = 143 - 15 = 128$$

128 three digits numbers which are divisible by 7 and leaves remainder 3.

6. If $x - 1/x = 5$, then find the value of $x^4 + 1/x^4$.

- a) 727
- b) 729
- c) 625
- d) 623

Answer: A

$$x - 1/x = 5$$

On squaring we get,

$$(x - 1/x)^2 = 5^2$$

$$x^2 + 1/x^2 - 2 = 25$$

$$x^2 + 1/x^2 = 25 + 2$$

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$$x^2 + 1/x^2 = 27$$

Again on squaring we get,

$$(x^2 + 1/x^2)^2 = 27^2$$

$$x^4 + 1/x^4 + 2 = 729$$

$$x^4 + 1/x^4 = 729 - 2$$

$$x^4 + 1/x^4 = 727$$

7. The difference of simple interest at rate of 8% in 3 years and at rate of 9% in 2 years is Rs. 9, Find the principal.

a) Rs. 1200

b) Rs. 1500

c) Rs. 1600

d) Rs. 1800

Answer: C

According to the question,

$$P \times 8 \times 3/100 - P \times 9 \times 2/100 = 96$$

$$24P/100 - 18P/100 = 96$$

$$6P/100 = 96$$

$$P = 1600$$

8. The length is 18 m 72 cm and breadth is 13 m 20 cm of a rectangle. Find the number of square tiles in the rectangle?

a) 4890

b) 4250

c) 4120

d) 4290

Answer: D

$$\text{Length} = 18 \text{ m } 72 \text{ cm} = 1872 \text{ cm}$$

$$\text{Breadth} = 13 \text{ m } 20 \text{ cm} = 1320 \text{ cm}$$

$$\text{HCF} = (1872 \& 1320) = 552$$

$$\text{No. of tiles} = (1872 \times 1320) / (24 \times 24) = 78 \times 55 = 4290$$

9. Two parallel sides of a trapezium are 10 cm and 20 cm, Unequal side is 10 cm. Find the area of the trapezium.

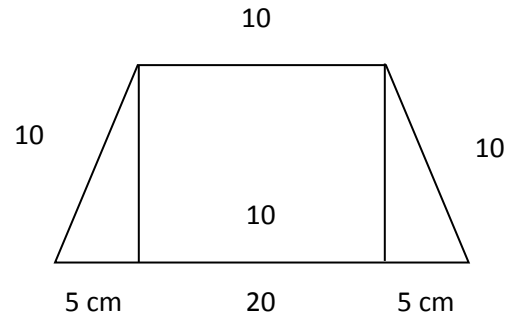
a) $55\sqrt{3}$ cm

b) $75\sqrt{3}$ cm

c) $50\sqrt{3}$ cm

d) $25\sqrt{3}$ cm

Answer: B



$$\text{Area of trapezium} = \frac{1}{2} (10 + 20) \times \text{height}$$

$$\text{Height} = \sqrt{100 - 25} = \sqrt{75} = 5\sqrt{3}$$

$$= \frac{1}{2} (10 + 20) \times 5\sqrt{3}$$

$$= \frac{1}{2} \times 30 \times 5\sqrt{3}$$

$$= 15 \times 5\sqrt{3}$$

$$= 75\sqrt{3} \text{ cm}$$

10. What number should be added in 657321A so that the number is divisible by 3?

a) 0

b) 2

c) 5

d) 8

Answer: A

Given number is divisible by 3 so value of A can be 0, 3, 6, 9.

11. Which of the following number should be added in 4228 so that the number is perfect square?

a) 125

b) 128

c) 130

d) 132

Answer: B

$$4228 + x = \text{perfect square}$$

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$66^2 = 4356$

So to make a number perfect square we have to add 128 to it.

12. Find the number which is divisible by 12, 24 and 36 and leaves remainder 3.

- a) 216
- b) 218
- c) 219
- d) 220

Answer: A

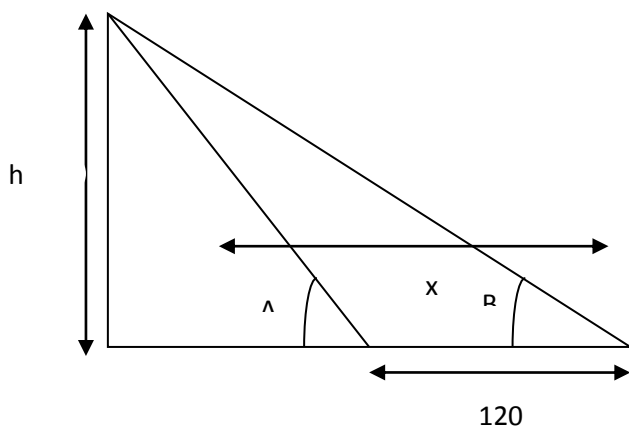
LCM of 12, 24, 36 = 72

Number = $72k + 3$

13. $\tan A = \sqrt{3}$ and $\tan B = 1/\sqrt{3}$ and a person drives a car and moves towards a tower, making an angle A and B and distance between A and B is 120 m, Find the height of the tower.

- a) $30\sqrt{3}$ m
- b) $30/\sqrt{3}$ m
- c) $60\sqrt{3}$ m
- d) $60/\sqrt{3}$ m

Answer: C



$\tan B = \tan 30^\circ = h/(x + 120)$

$1/\sqrt{3} = h/(x + 120)$

$h = 1/\sqrt{3} \times (x + 120) \dots (i)$

$\tan A = \tan 60^\circ = h/x$

$\sqrt{3} = h/x$

$h = \sqrt{3}x \dots (ii)$

On equating equ (i) and equ (ii)

$1/\sqrt{3} \times (x + 120) = \sqrt{3}x$

$(x + 120) = 3x$

$120 = 3x - x$

$120 = 2x$

$x = 120/2 = 60$

So, $h = 60\sqrt{3}$ m

14. If $4862 \times 9a2$ is divisible by 12, then find the value of a.

a.

- a) 1
- b) 5
- c) 8
- d) 6

Answer: A

Let $a = 1$

The number is completely divisible by 12.

15. Rohit sells the product with the profit of 15% to Mohit and Mohit sells the same product with the profit of 10% to Shyam, now the price of the product is Rs. 5060 Find the initial cost price of the product.

- a) Rs. 4000
- b) Rs. 8000
- c) Rs. 6000
- d) Rs. 9000

Answer: A

Using successive discount method,

Cost price	selling price
100%	115%
20	: 23
100%	110%
10	: 11

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$$20 \times 10 : 23 \times 11$$

$$200 : 253$$

$$253 = \text{Rs. } 5060$$

$$\text{Then } 1 = 20$$

$$\text{So, initial cost price} = 200 \times 20 = 4000$$

16. If $(3\sqrt{5} + 5) / (3\sqrt{5} - 5) = a + b\sqrt{5}$, then find the value of b.

a) $3/2$

b) $5/2$

c) $7/2$

d) $9/4$

Answer: A

$$(3\sqrt{5} + 5) / (3\sqrt{5} - 5) = a + b\sqrt{5}$$

On rationalizing we get,

$$\{3\sqrt{5} + 5 / 3\sqrt{5} - 5\} \times \{3\sqrt{5} + 5 / 3\sqrt{5} + 5\} = a + b\sqrt{5}$$

$$(3\sqrt{5} + 5)^2 / (3\sqrt{5})^2 - (5)^2 = a + b\sqrt{5}$$

$$\{45 + 25 + 30\sqrt{5}\} / 45 - 25 = a + b\sqrt{5}$$

$$(70 + 30\sqrt{5}) / 20 = a + b\sqrt{5}$$

$$7/2 + 3/2\sqrt{5} = a + b\sqrt{5}$$

$$a = 7/2 \text{ and } b = 3/2$$

17. If $2A = 3B = 6C$, then find the angle c.

a) 80°

b) 90°

c) 30°

d) 60°

Answer: C

$$2A = 3B = 6C$$

$$A : B : C = 3 : 2 : 1$$

$$6x = 180^\circ$$

$$x = 180^\circ / 6$$

$$x = 30^\circ$$

18. A road roller has a its radius of 80 cm and height is 77 cm, ind the number of rotation when its area is 96.8 m^2 .

a) 35

b) 45

c) 25

d) 60

Answer: C

Let n be the number of rotations

$$n (2\pi rh) = 96.8 \times 100 \times 100$$

$$n \times 2 \times 22/7 \times 80 \times 77 = 96.8 \times 100 \times 100$$

$$n \times 2 \times 22 \times 80 \times 11 = 968 \times 10 \times 100$$

$$n = 25$$

19. A farmer sells a mangoes at Rs.84 per dozen and he earns a profit of 12%. In order to earn the profit of 20% farmer sells a mangoes at what price?

a) Rs. 7.5

b) Rs. 8.5

c) Rs. 9.5

d) Rs. 10.5

Answer: A

According to the question,

$$84/12 \qquad \qquad \qquad 112$$

$$x/1 \qquad \qquad \qquad 120$$

$$840 \qquad \qquad = \qquad \qquad 112x$$

$$x = 840/112 = 7.5$$

20. A train of length 300 m crosses a pole in 5 sec. Find the speed of the train.

a) 106 km/hr

b) 206 km/hr

c) 216 km/hr

d) 366 km/hr

Answer: C

$$\text{Speed} = 300/5 = 60 \text{ m/s} = 60 \times 18/5 = 216 \text{ km/hr}$$

21. If $x^2 = y + z$, $y^2 = x + z$, $z^2 = x + y$, then find the value of $1/(x + 1) + 1/(y + 1) + 1/(z + 1)$.

a) 4

b) 3

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c) 2

d) 1

Answer: D

$$x^2 = y + z \dots (i)$$

Adding x in equ (i) we get,

$$x^2 + x = x + y + z$$

$$x(x + 1) = x + y + z$$

$$x + 1 = (x + y + z)/x$$

Similarly,

$$y + 1 = (x + y + z)/y$$

$$z + 1 = (x + y + z)/z$$

$$\text{The value} = 1/(x + 1) + 1/(y + 1) + 1/(z + 1)$$

$$= x/(x + y + z) + y/(x + y + z) + z/(x + y + z)$$

$$= x + y + z/(x + y + z)$$

$$= 1$$

22. A rhombus of perimeter 164 cm and one diagonal is 80 cm Find its area.

a) 740 cm²

b) 800 cm²

c) 820 cm²

d) 720 cm²

Answer: D

$$\text{Perimeter of rhombus} = 164$$

$$4a = 164$$

$$a = 164/4 = 41$$

$$d_2^2 = a^2 - d_1^2$$

$$d_2^2 = 41^2 - 40^2$$

$$d_2^2 = 1681 - 1600$$

$$d_2^2 = 81$$

$$d_2 = 9$$

So, total diagonal is 18 cm

$$\text{Area of rhombus} = \frac{1}{2} \times d_1 \times d_2$$

$$= \frac{1}{2} \times 80 \times 18$$

$$= 720 \text{ cm}^2$$

23. A tree fall down and left with height of 8 cm base distance is 6 cm then find the actual height of the tree.

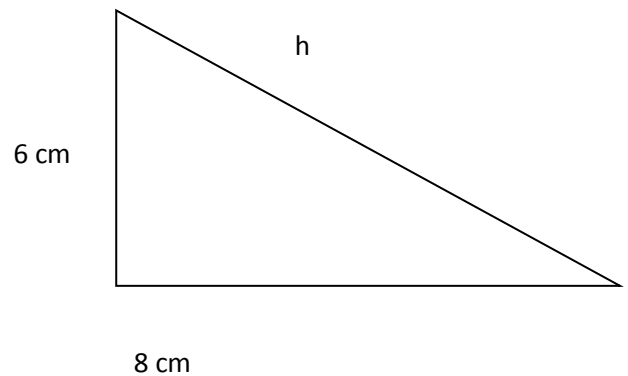
a) 18

b) 28

c) 38

d) 48

Answer: A



$$h^2 = 8^2 + 6^2$$

$$= 64 + 36$$

$$= 100$$

$$h = 10 \text{ m}$$

$$\text{Total Distance} = 10 + 8 = 18 \text{ m}$$

24. $1/5$ of a number exceeds $1/7$ of the same number by 10, then find the number.

a) 175

b) 200

c) 225

d) 150

Answer: A

According to the question,

$$\frac{1}{5}x - \frac{1}{7}x = 10$$

$$7x - 5x/35 = 10$$

$$\frac{2x}{35} = 10$$

$$2x = 350$$

$$x = 350/2$$

$$x = 175$$

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25. Two numbers are in the ratio of 4 : 5, their HCF is

16. Find the sum of these two numbers is.

- a) 144
- b) 124
- c) 160
- d) 150

Answer: A

Sum of number = $(4 + 5) \times 16$

= 9×16

= 144

26. Read the following table and answer the questions.

Food grains production in a country is 2000 (in lakh tonne).

State	Rice	Wheat	Jowar	Pulses	Others
P	45	103	----	27	29
Q	48	86	73	19	15
R	59	32	67	14	31
S	41	37	59	21	15
T	37	22	41	13	11
U	68	15	12	-----	18
V	57	8	7	12	10
W	38	28	31	22	45

Which state had the highest grain production?

- a) P
- b) Q
- c) R
- d) S

Answer: B

Total grain production of state

$P = 45 + 103 + 27 + 29$

= 204 lakh tonne

$Q = 48 + 86 + 73 + 19 + 15$

= 241 lakh tone

$R = 59 + 32 + 67 + 14 + 31$

= 203 lakh tone

$S = 41 + 37 + 59 + 21 + 15$

= 173 lakh tone

So, Q had highest grain production.

27. Read the following table and answer the questions.

Food grains production in a country is 2000 (in lakh tonne).

State	Rice	Wheat	Jowar	Pulses	Others
P	45	103	----	27	29
Q	48	86	73	19	15
R	59	32	67	14	31
S	41	37	59	21	15
T	37	22	41	13	11
U	68	15	12	-----	18
V	57	8	7	12	10
W	38	28	31	22	45

What was the proportion of rice production to wheat production in the country?

- a) 297 : 173
- b) 342 : 191
- c) 393 : 331
- d) 3 : 4

Answer: C

Total rice production = $45 + 48 + 59 + 41 + 37 + 68 + 57 + 38 = 393$ lakh tonne

Total wheat production = $103 + 86 + 32 + 37 + 22 + 15 + 18 + 8 + 28 = 331$ lakh tone

Ratio = 393 : 331

28. Read the following table and answer the questions.

Food grains production in a country is 2000 (in lakh tonne).

State	Rice	Wheat	Jowar	Pulses	Others
P	45	103	----	27	29
Q	48	86	73	19	15
R	59	32	67	14	31

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S	41	37	59	21	15
T	37	22	41	13	11
U	68	15	12	-----	18
V	57	8	7	12	10
W	38	28	31	22	45

Jowar was the most important food grain in the state/states.

- a) Q, R, S
- b) Q
- c) R, S
- d) R, S, T

Answer: B

In the state Q Jowar shows highest production.

29. Read the following table and answer the questions.

Food grains production in a country is 2000 (in lakh tonne).

State	Rice	Wheat	Jowar	Pulses	Others
P	45	103	----	27	29
Q	48	86	73	19	15
R	59	32	67	14	31
S	41	37	59	21	15
T	37	22	41	13	11
U	68	15	12	-----	18
V	57	8	7	12	10
W	38	28	31	22	45

State P alone accounted for approximately what percentage of wheat production in the country?

- a) 73 %
- b) 50 %
- c) 41 %
- d) 31 %

Answer: D

$$\text{Percentage} = \frac{103}{331} \times 100$$

$$= 31.11\%$$

30. The area of a circle is 616 sq. m, find its diameter.

- a) 7 m
- b) 14 m
- c) 28 m
- d) 56 m

Answer: C

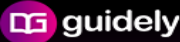
$$\text{Area of circle} = 616$$

$$\pi r^2 = 616$$

$$\frac{22}{7} \times r^2 = 616$$

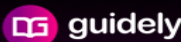
$$r = 14$$

$$d = 2r = 2 \times 14 = 28 \text{ m}$$



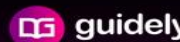
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