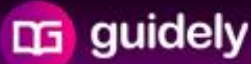


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General Awareness

1) Khilafat movement was started at which place?

- a) Delhi
- b) Gujarat
- c) Gorakhpur
- d) Lucknow

Answer: d)

The Khilafat Movement was essentially a movement to express Muslim support for the Caliph of Turkey against the allied powers. This movement was started by Maulana Mohammad Ali Jauhar and his brother Maulana Shaukat Ali in Lucknow, India by joining hands with some other Muslim leaders.

2) When was demonetization launched in India?

- a) 8 November 2016
- b) 9 August 2014
- c) 11 May 2015
- d) 15 April 2017

Answer: a)

Government of India announced the demonetisation of all ₹500 and ₹1,000 banknotes of the Mahatma Gandhi Series on 8 November 2016. It also announced the issuance of new ₹500 and ₹2,000 banknotes in exchange for the demonetised banknotes.

3) What is the Chemical formula of Ruby Gem stone?

- a) CaSO_4
- b) SiO_2
- c) $\text{Al}_2\text{SiO}_4\text{F}_2$

d) $\text{Al}_2\text{O}_3:\text{Cr}$

Answer: d)

Ruby Gemstone is made of Aluminum Oxide. The chemical composition of Ruby Gemstone is $\text{Al}_2\text{O}_3:\text{Cr}$.

4) Where is the Lingaraja temple located?

- a) Angul, Odisha
- b) Balasore, Odisha
- c) Bhubaneswar, Odisha
- d) Cuttack, Odisha

Answer: c)

Lingaraja Temple is a Hindu temple dedicated to Shiva and is one of the oldest temples in Bhubaneswar, the capital of the Indian state of Odisha.

5) When was the air pollution act established in India?

- a) 1981
- b) 1988
- c) 1985
- d) 1991

Answer: a)

The Air (Prevention and Control of Pollution) Act, 1981 is an Act of the Parliament of India to control and prevent air pollution in India. This was the first attempt by the government of India to combat air pollution.

6) What is the full form of ALU?

- a) arithmetic logic unit
- b) application logic unit
- c) array logical unit

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d) arithmetical logical unit

Answer: a)

ALU stand for Arithmetic Logic Unit. It performs all the arithmetic computations, like addition, division and the comparison operations.

7) Under which of the following article of Indian Constitution, President is elected by an Electoral College?

- a) Article 54
- b) Article 56
- c) Article 57
- d) Article 52

Answer: a)

The President of India is the ceremonial head of state of India and the Commander-in-chief of the Indian Armed Forces. Under Article 54, the President is elected by an Electoral College, which consists of the elected members of both Houses of Parliament and the elected members of the Legislative Assemblies.

8) The Sheesh Mahal or the 'Palace of Mirrors' in Patiala was built by whom?

- a) Maharaja Sawai Jai Singh II
- b) Maharaja Narinder Singh
- c) Raja Surajmal Singh
- d) Anantvarman Ganga

Answer: b)

The Sheesh Mahal or the 'Palace of Mirrors' in Patiala was built by Maharaja Narinder Singh behind the main Moti Bagh Palace. It is famous for its beautiful intricate mirror artwork which is unique in whole world. This is a UNESCO world heritage site.

9) Kesari, a Marathi newspaper was founded by which prominent leader of the Indian Independence movement?

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

Answer: b)

Kesari is a Marathi newspaper which was founded in 1881 by Lokmanya Bal Gangadhar Tilak. He was a prominent leader of the Indian Independence movement. The editors of Kesari included a number of freedom fighters and social activists including Agarkar, Chiplunkar and Tilak.

10) Which among the following is an East-West National highway in India?

- a) NH-17
- b) NH-21
- c) NH-27
- d) NH-31

Answer: c)

National Highway 27 (NH 27) is an East - West National highway in India that starts from Porbandar and terminates in Silchar. The highway passes through the states of Gujarat, Rajasthan, Madhya Pradesh, Uttar Pradesh, Bihar, West Bengal, Assam. This is the second longest National Highway in India after National Highway 44.

11) Who among the following was known as "Ajatshatru" by Gandhiji?

- a) Rajendra Prasad
- b) Subhash Chandra Bose
- c) Bal Gangadhar Tilak
- d) Jawaharlal Nehru

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Answer: A

Rajendra Prasad was known as the "gentleman of Indian politics" . His personal way of life and integrity were his great assets due to which he was conferred the title of gentleman of Indian politics and prompted Gandhiji to call him ajatashatru which means "one who had no enemies."

12) What is the total Number of Loksabha seats of BJP in 2019?

- a) 303
- b) 313
- c) 308
- d) 315

Answer: a)

The 2019 Indian general election was held in seven phases from 11 April to 19 May 2019 to constitute the 17th Lok Sabha. The Bharatiya Janata Party won 303 seats and the BJP-led National Democratic Alliance (NDA) won 353 seats.

13) Shanghai Corporation Organization was formed in which year?

- a) 2005
- b) 2001
- c) 2003
- d) 2006

Answer: b)

The Shanghai Cooperation Organization (SCO) is an intergovernmental organization founded in Shanghai on 15 June 2001.

14) Who is the Current Secretary-General Of UN?

- a) Antonio Guterres
- b) Filippo Grandi

c) Jorge Sampaio

d) Ban Ki-moon

Answer: a)

Antonio Guterres is a Portuguese politician and diplomat serving as the ninth secretary-general of the United Nations.

15) How many wetlands are there in India?

- a) 45
- b) 41
- c) 33
- d) 42

Answer: d)

There are 42 Ramsar sites in India. These are wetlands deemed to be of "international importance" under the Ramsar Convention.

16) Babarnama is written in which language?

- a) Prakrits
- b) Hindustani
- c) Marathi
- d) Chagatai

Answer: d)

Baburnama which is also known as Tuzuk-i-Baburi is the autobiography of the First Mughal Emperor. It was written in Chagatai language.

17) All India Khilafat Conference 1919 was held at which place?

- a) Gujarat
- b) Delhi
- c) Gorakhpur
- d) Lucknow

Answer: b)

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The All India Khilafat Conference was organized at New Delhi on November 23, 1919.

18) Jog waterfall is situated in which state?

- a) Kerala
- b) Bihar
- c) Jharkhand
- d) Karnataka

Answer: d)

Jog Falls is a waterfall on the Sharavati river located in the Western Ghats Sagara taluk, Shimoga district in Karnataka. It is the second highest plunge waterfall in India.

19) Which of the following is an Indirect Tax which has replaced many Indirect Taxes in India?

- a) Value added tax
- b) Service tax
- c) Corporate tax
- d) Goods and Service tax

Answer: d)

Goods and Services Tax (GST) is an indirect tax (or consumption tax) imposed in India on the supply of goods and services. GST is an Indirect Tax which has replaced many Indirect Taxes in India.

20) _____ refers to the use of electronic messaging systems to send out unrequested or unwanted messages in bulk?

- a) Spam
- b) Hypertext
- c) Junk
- d) Hoaxes

Answer: a)

Spam is the use of electronic messaging systems to send unsolicited bulk messages, especially advertising, indiscriminately. The most widely recognized form of spam is email spam.

21) Wipro Limited is headquartered in which city?

- a) Chennai
- b) Bengaluru
- c) Pune
- d) Mumbai

Answer: b)

Wipro Limited is an Indian multinational corporation that provides information technology, consulting and business process services. It is headquartered in Bangalore, Karnataka.

22) People for the Ethical Treatment of Animals (PETA), was founded on _____.

- a) 22 March 1980
- b) 22 March 1981
- c) 22 March 1983
- d) 22 March 1985

Answer: a)

People for the Ethical Treatment of Animals is an American animal rights organization. It was founded on 22 March 1980.

23) Which state has the highest per capita income in India?

- a) Maharashtra
- b) Goa
- c) Punjab
- d) Karnataka

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Answer: b)

Goa has highest per capita income among 33 Indian states and union territories. Capital Delhi is 2nd richest economy of India.

24) The first 50 over ODI was started from which year?

- a) 1977
- b) 1975
- c) 1988
- d) 1982

Answer: a)

The first 50 over ODI was held between West Indies and Pakistan. It was played at Albion Sports Complex, Albion, Guyana on 16 March 1977.

25) Pulitzer Prize is given by which of the following university?

- a) Columbia University
- b) Harvard University
- c) Stanford University
- d) Oxford University

Answer: a)

Pulitzer Prize is a series of annual prizes awarded by Columbia University, New York City, for outstanding public service and achievement in American journalism, letters, and music.

26) Blue Mountain is the highest mountain peak in which state?

- a) Mizoram
- b) Manipur
- c) Nagaland
- d) Arunachal Pradesh

Answer: a)

Phawngpui also known as Blue Mountain is the highest mountain peak in the Mizo Hills and in the state of Mizoram, India, with an elevation of 2157 m.

27) Chilika Lake is a brackish water lagoon in _____.

- a) Odisha
- b) Bihar
- c) Punjab
- d) Telangana

Answer: a)

Chilika Lake is a brackish water lagoon, spread over the Puri, Khurda and Ganjam districts of Odisha state on the east coast of India, at the mouth of the Daya River, flowing into the Bay of Bengal. It is considered to be the largest lagoon in India.

28) Where was Indian National Congress session held in 1919?

- a) Amritsar
- b) Calcutta
- c) Nagpur
- d) Ahmedabad

Answer: a)

The 34th Session of Congress was held at Amritsar in 1919 under the presidency of Motilal Nehru.

29) Which amendment of Indian constitution included Sindhi as an official language?

- a) 25th amendment
- b) 21st amendment
- c) 19th amendment
- d) 26th amendment

Answer: b)

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The Twenty-first Amendment of the Constitution of India, officially known as The Constitution (Twenty-first Amendment) Act, 1967, amended the Eighth Schedule to the Constitution so as to include Sindhi as one of the languages, thereby raising the total number of languages listed in the schedule to fifteen.

30) Who is the author of the book 'Revolution 2020'?

- a) Vikram Seth
- b) Amitav Ghosh
- c) Jhumpa Lahiri
- d) Chetan Bhagat

Answer: d)

Revolution 2020: Love, Corruption, Ambition is a 2011 novel by Chetan Bhagat. Its story is concerned with a love triangle, corruption and a journey of self-discovery.

31) Which part of the Indian Constitution deals with the Union Territories?

- a) Part V
- b) Part III
- c) Part II
- d) Part I

Answer: d)

A Union Territory is that type of an administrative division which is controlled by the Central Government. According to the Indian Constitution Articles 1 to 4 under Part-1 of the Constitution deals with the Union and its Territory.

32) What is the chemical name of Vitamin B12?

- a) Thiamine
- b) Pantothenic acid
- c) Biotin
- d) Cyanocobalamin

Answer: d)

The chemical name of vitamin B12 is cyanocobalamin and it contains cobalt.

33) The Hindu Widows' Remarriage Act, 1856 was enacted during the rule of which Governor-general?

- a) Lord Chelmsford
- b) Lord Ripon
- c) Lord Cornwallis
- d) Lord Canning

Answer: d)

The Hindu Widows' Remarriage Act, 1856, was enacted on 26 July 1856 which legalised the remarriage of Hindu widows in all jurisdictions of India under East India Company rule. It was drafted by Lord Dalhousie and passed by Lord Canning before the Indian Rebellion of 1857.

34) Division of powers is related to which schedule of Indian constitution?

- a) 8 Schedule
- b) 12 Schedule
- c) 9 Schedule
- d) 7 Schedule

Answer: a)

The 7th Schedule of the Indian Constitution deals with the division of powers between the Union government and State governments.

35) Bombs inside the Central Legislative Assembly was thrown in which year?

- a) 1929
- b) 1931
- c) 1933

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d) 1925

Answer: a)

On April 8, 1929, Bhagat Singh, along with freedom fighter Batukeshwar Dutt, hurled two bombs inside the Central Legislative Assembly in New Delhi to protest against an unfavourable Bill.

36) First Ramsar Convention was held in which country?

- a) India
- b) Iran
- c) Russia
- d) Sri Lanka

Answer: b)

The Ramsar Convention was signed in 1971 in Ramsar, Iran. It is the only global treaty that focuses specifically on wetlands.

37) Kandla Port is located in which Indian state?

- a) Telangana
- b) Jharkhand
- c) Gujarat
- d) Rajasthan

Answer: c)

Kandla, also known as Deendayal Port Trust is a seaport in Kutch District of Gujarat state in Western India, near the city of Gandhidham. It is one of major ports on the west coast.

38) What is the symbol of Lead?

- a) Ge
- b) Au
- c) Pb
- d) Mn

Answer: c)

Lead is a chemical element with the symbol Pb and atomic number 82.

39) Who among the following is known as the chief architect of the Indian Constitution?

- a) Sardar Vallabhbhai Patel
- b) Pandit Jawaharlal Nehru
- c) B.R Ambedkar
- d) Dr. Rajendra Prasad

Answer: c)

Dr. Bhimrao Ramji Ambedkar popularly known as Baba Saheb, was an Indian jurist, economist, politician and social reformer. Indian Constitution drafted by Ambedkar is described as 'first and foremost a social document' which was presented before the nation in 1948 which structured the legal system of Independent India.

40) Who is the present Human Resource Development minister in Narendra Modi Government?

- a) Subrahmanyam Jaishankar
- b) Ramesh Pokhriyal
- c) Thaawar Chand Gehlot
- d) Ravi Shankar Prasad

Answer: b)

The Ministry of Education, formerly the Ministry of Human Resource Development, is a Ministry of GoI responsible for the implementation of the National Policy on Education. The current education minister is Shri Ramesh Pokhriyal 'Nishank'.

Logical Reasoning

1. Select the related word from the given alternatives.

Cytology : Cells : Birds : ?

- a) Ornithology

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- b) Ichthyology
- c) Entomology
- d) Mycology

Answer: A

The study of cells is called cytology.

Similarly,

The study of birds is called Ornithology.

2. Select the odd one out.

- a) 21
- b) 45
- c) 72
- d) 81

Answer: A

All options except '21' is divisible by 9.

3. Select the related term from the given alternatives.

SPWN : XIRS :: TMHL : ?

- a) BHCQ
- b) YHCQ
- c) YCHQ
- d) BCHQ

Answer: B

$S + 5 = X$	$T + 5 = Y$
$P - 5 = I$	$M - 5 = H$
$W - 5 = R$	$H - 5 = C$
$N + 5 = S$	$L + 5 = Q$

4. Three of the following four pairs are related in a certain way while one is different. Choose the odd one out.

- a) 73 - 292
- b) 33 - 132
- c) 41 - 164

- d) 27 - 118

Answer: D

- a) $73 - 292 \rightarrow 73 \times 4 = 292$
- b) $33 - 132 \rightarrow 33 \times 4 = 132$
- c) $41 - 164 \rightarrow 41 \times 4 = 164$
- d) $27 - 118 \rightarrow 27 \times 4 = 108 \neq 118$**

5. Which one of the following does not belong to the group?

- a) Mg
- b) Li
- c) Ca
- d) Sr

Answer: B

Mg, Ca and Sr are symbols of alkaline earth metals.

Li is symbol of alkali metal.

6. Find the missing term in the series.

K, K, L, N, Q, ?

- a) V
- b) W
- c) U
- d) X

Answer: C

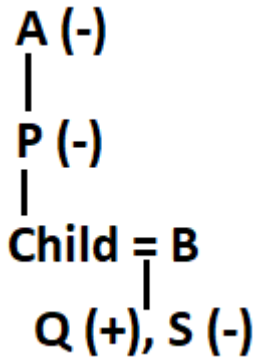
$K + 0 = K$; $K + 1 = L$; $L + 2 = N$; $N + 3 = Q$; $Q + 4 = U$

7. A is mother of B's mother-in-law. Q is grandson of P. S is sister of Q and daughter of B. How is P related to B?

- a) Mother
- b) Mother-in-law
- c) Sister
- d) Sister-in-law

Answer: B

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8. If W means '+', D means 'x', H means '÷' and U means '-', then find the value of the expression given below.

$$16 \text{ D } 9 \text{ H } 3 \text{ W } 18 \text{ U } 7$$

- a) 47
- b) 49
- c) 59
- d) 67

Answer: C

$$16 \text{ D } 9 \text{ H } 3 \text{ W } 18 \text{ U } 7$$

W	D	H	U
+	×	÷	-

$$16 \times 9 \div 3 + 18 - 7$$

$$= 48 + 18 - 7$$

$$= 59$$

9. Find the missing number in the series.

$$6, 7, 13, 20, 33, ?$$

- a) 65
- b) 76
- c) 58
- d) 46

Answer: D

$$6 + 7 = 13$$

$$13 + 7 = 20$$

$$20 + 13 = 33$$

$$33 + 13 = 46$$

10. Find the similarity in the following.

Bat, Elephant, Whale

- a) All of them are marsupials.
- b) All of them are amphibians.
- c) All of them are mammals.
- d) All of them are reptiles.

Answer: C

Bat, Elephant, Whale are mammals.

11. WHO' is related to 'Geneva', in the same way as 'OPEC' is related to '_____'.

- a) Switzerland
- b) Austria
- c) Vienna
- d) Iraq

Answer: C

Headquarter of WHO is in Geneva, Switzerland.

Similarly,

Headquarter of OPEC is in Vienna, Austria.

12. Arrange the following words in a logical and meaningful order.

1. Open Zomato
2. Take Delivery
3. Select items
4. Place Order
5. Eat

- a) 1, 2, 3, 4, 5
- b) 1, 3, 2, 5, 4
- c) 1, 3, 4, 2, 5
- d) 1, 2, 3, 5, 4

Answer: C

1. Open Zomato

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- 3. Select items
- 4. Place Order
- 2. Take Delivery
- 5. Eat

13. In a code language, GOTHAM is written as 715208113. How will LUCKY be written as in the same language?

- a) 121231125
- b) 121231325
- c) 122131125
- d) 122111325

Answer: C

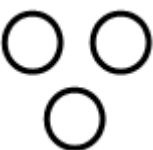



G	O	T	H	A	M
7	15	20	8	1	13

Similarly,

L	U	C	K	Y
12	21	3	11	25

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

Brother, Mother, Sibling

- a) 
- b) 
- c) 
- d) 

Answer: B



15. If 'A' means '+', 'B' means 'x', 'C' means '÷' and 'D' means '-', then 16 C 7 B 49 C 28 A 63 D 21 A 1 = ?

- a) 47
- b) 49
- c) 63
- d) 45

Answer: A

A	B	C	D
+	x	÷	-

16 C 7 B 49 C 28 A 63 D 21 A 1 = ?

$$\begin{aligned}
 &16 \div 7 \times 49 \div 28 + 63 - 21 + 1 \\
 &= 4 + 64 - 21 \\
 &= 68 - 21 \\
 &= 47
 \end{aligned}$$

16. Six boys A, B, C, E, F and G are sitting in a row facing towards north (not necessarily in the same order). B is not sitting at any of the end. G is sitting third to the right of A. C is to the immediate left of G. A is at one of the ends. B is not to the right of G. Who among the following sits between G and E?

- a) D
- b) C
- c) A
- d) Cannot be determined

Answer: D

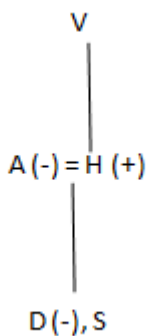
A B C G E/D E/D

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17. In a family of 5 members – A, S, D, H and V, A is wife of H. H has two children and he is son of V. D is not the grandson of V. How is D related to S?

- a) Sister
- b) Brother
- c) Cousin
- d) Uncle

Answer: A

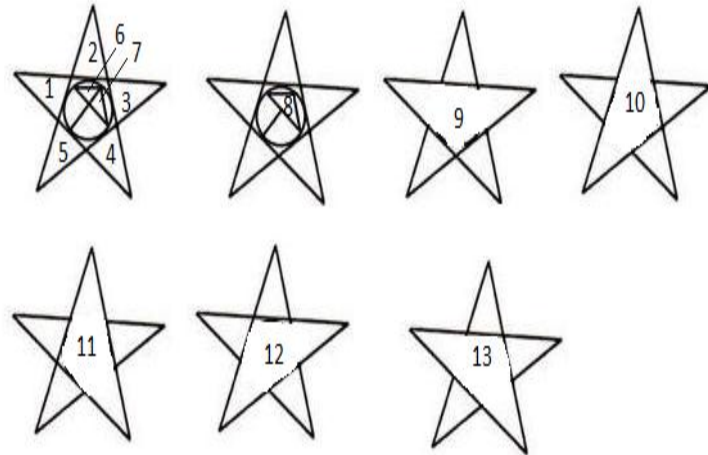


18. How many triangles are there in the figure given below?



- a) 16
- b) 13
- c) 17
- d) 11

Answer: B



19. From the given alternatives, select the word that can be formed using the letters of the given word.

MESOPOTAMIA

- a) TOMATO
- b) POTATO
- c) MOST
- d) ALMOST

Answer: C

- a) TOMATO → MESOPOTAMIA → Can't be formed (As one more T is needed)
- b) POTATO → MESOPOTAMIA → Can't be formed (As one more T is needed)
- c) MOST → MESOPOTAMIA → Can be formed
- d) ALMOST → MESOPOTAMIA → Can't be formed (As one L is needed)

20. The statements below are followed by two conclusions labelled I and II. Assuming that the information in the statements is true, even if it appears to be at variance with generally established facts, decide which conclusion(s) logically and definitely follow(s) from the information given in the statements.

Statements:

- I. Some row are not columns

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II. No table is row

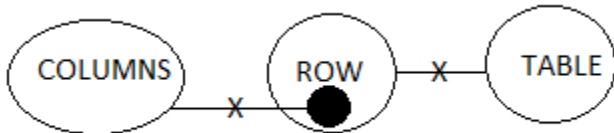
Conclusions:

I. Some table are not row

II. Some row are table

- a) Only conclusion I follows
- b) Neither conclusion I nor II follows
- c) Both conclusions I and II follow
- d) Only conclusion II follows

Answer: A



- I. Some table are not row - True
- II. Some row are table - False

21. Assertion and Reason are given below.

Assertion (A): Persons with 'O' blood group are considered as universal receiver.

Reason (R): 'O' blood group is free from Antigen.

Choose the correct option:

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

Answer: B

22. If 15321 is written as 2722242526, then how is 8467 written in that language?

- a) 19231220
- b) 19322120
- c) 19232210

d) 19232120

Answer: D

$$27 - 1 = 26$$

$$27 - 5 = 22$$

$$27 - 3 = 24$$

$$27 - 2 = 25$$

$$27 - 1 = 26$$

$$27 - 8 = 19$$

$$27 - 4 = 23$$

$$27 - 6 = 21$$

$$27 - 7 = 20$$

23. Select the correct mirror image of the figure given below when the mirror is placed to its right.



a)



b)

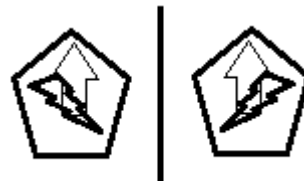


c)



d)

Answer: D



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24. The ration of Mayank and Sayan's present age is 9 : 11. If the difference in their age is 14 years, then find the present age of Sayan?

- a) 99 years
- b) 77 years
- c) 63 years
- d) 70 years

Answer: B

Difference in ratio is 2 units.

According to question:

2 units = 14

=> 1 unit = 7

So, age of Sayan = $11 \times 7 = 77$ years.

25. Assertion and Reason are given below.

Assertion (A): Most of the ancient civilizations developed around rivers.

Reason (R): Main occupation of men was agriculture.

Choose the correct option:

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

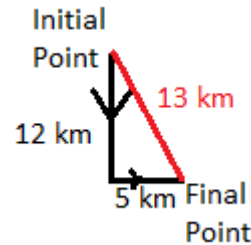
Answer: C

26. One evening Anita started walking towards south. After walking 12 km, she turned to her left and walked 5 km. Find the shortest distance that she needs to cover to return back to her initial position?

- a) 13 km
- b) 5 km
- c) 17 km

d) 10 km

Answer: A



27. The statements below are followed by two conclusions labelled I and II. Assuming that the information in the statements is true, even if it appears to be at variance with generally established facts, decide which conclusion(s) logically and definitely follow(s) from the information given in the statements.

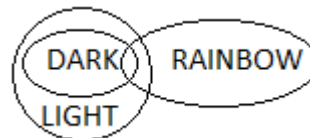
Statements:

- I. All dark is light
- II. Some rainbow are dark

Conclusions:

- I. Some rainbow are dark
- II. Some light are dark
- a) Only conclusion I follows
- b) Neither conclusion I nor II follows
- c) Both conclusions I and II follow
- d) Only conclusion II follows

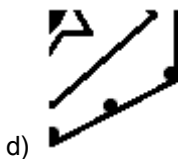
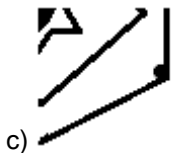
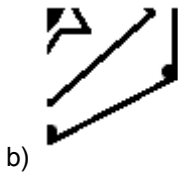
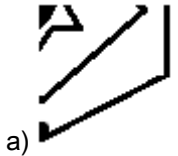
Answer: C



- I. Some rainbow are dark - True
- II. Some light are dark - True

28. Select the correct option from the given alternatives that will complete the figure given below.

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Answer: B



29. Rearrange the following to form a meaningful word and find the odd one out.

- a) UNPE
- b) ILOLSGNH
- c) OHALPB
- d) ENENCIH

Answer: A

- a) UNPE → PUNE is a city in Mumbai.

- b) ILOLSGNH → SHILLONG is the capital of Meghalaya.
- c) OHALPB → BHOPAL is the capital of Madhya Pradesh.
- d) ENENCIH → CHENNAI is the capital of Tamil Nadu.

30. In this question, a statement is given followed by two conclusions. Choose the conclusion(s) which best fit(s) logically.

Statement:

Cost of gold is increasing in market.

Conclusions:

I. Gold is becoming a rare ornament.

II. People cannot buy gold.

- a) Only conclusion I follows
- b) Both conclusions I and II follow
- c) Only conclusion II follows
- d) Neither conclusion I nor II follows

Answer: D

Mathematics

1. A car travelled a certain distance with a speed of 90 kmph in 15 minutes, find the distance.

- a) 22500 m
- b) 25000 m
- c) 27000 m
- d) 28000 m

Answer: A

Distance = Speed × Time

$$= (90 \times 1000/60) \times 15$$

$$= 22500 \text{ m}$$

2. Find the mode and median of 2, 2, 3, 3, 6, 6, 7, 9, 3 and 7.

- a) 4.5, 3
- b) 3, 4.5
- c) 2, 3
- d) 3, 2

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Answer: B

2, 2, 3, 3, 6, 6, 7, 9, 3 and 7

Mode = maximum repetition of number i.e. 3

Now, arranging in increasing order,

2, 2, 3, 3, 3, 6, 6, 7, 9

Median = $(5^{\text{th}} \text{ term} + 6^{\text{th}} \text{ term})/2 = (3 + 6)/2 = 9/2 = 4.5$

3. Simplify: $1/5 \div \{5/3 \times 3/25\}$.

a) 0

b) -1

c) 1

d) 2

Answer: C

$\Rightarrow 1/5 \div \{5/3 \times 3/25\}$

$= 1/5 \div 1/5$

$= 1$

4. Find the HCF of $\{1/2, 3/4, 4/3, 4/5, 5/6\}$.

a) 1/30

b) 1/40

c) 1/50

d) 1/60

Answer: D

$\{1/2, 3/4, 4/3, 4/5, 5/6\} = \text{HCF/LCM} = 1/\text{LCM}(2, 3, 4, 5, 6)$

$= 1/60$

5. $41^{43} + 43^{43}$ is completely divisible by?

a) 41

b) 42

c) 43

d) 84

Answer: D

$41^{43} + 43^{43}$

If $a^n + b^n$, where $n = \text{odd number}$ then the number is divisible by $(a + b)$

$41^{43} + 43^{43}$ is divisible by $(41 + 43) = 84$

6. The selling price of an article is Rs. 1500 at a loss of 20% and in order to make profit of 20% the same goods is selling at?

a) Rs. 1500

b) Rs. 2250

c) Rs. 1780

d) Rs. 1875

Answer: B

Loss % = $(\text{CP} - \text{SP})/\text{CP} \times 100$

$20 = (1 - \text{SP}/\text{CP}) \times 100$

$20/100 = (1 - 1500/\text{CP})$

$1/5 = 1 - 1500/\text{CP}$

$1 - 1/5 = 1500/\text{CP}$

$4/5 = 1500/\text{CP}$

$\text{CP} = (1500 \times 5)/4$

$\text{CP} = \text{Rs. } 1875$

Profit % = $(\text{SP} - \text{CP})/\text{CP} \times 100$

$20 = (\text{SP}/\text{CP} - 1) \times 100$

$20/100 = (\text{SP}/1875 - 1)$

$1/5 = (\text{SP}/1875 - 1)$

$1/5 + 1 = \text{SP}/1875$

$6/5 = \text{SP}/1875$

$\text{SP} = 6 \times 1875/5$

$\text{SP} = \text{Rs. } 2250$

7. If $\cos(x - y) = \sqrt{3}/2$ and $\sin(x + y) = 1$, then find the value of x and y .

a) $x = 30^\circ$ and $y = 30^\circ$

b) $x = 60^\circ$ and $y = 60^\circ$

c) $x = 60^\circ$ and $y = 30^\circ$

d) $x = 90^\circ$ and $y = 60^\circ$

Answer: C

$\cos(x - y) = \sqrt{3}/2$

$(x - y) = \cos^{-1}(\sqrt{3}/2)$

$(x - y) = 30^\circ \dots (i)$

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$$\sin(x + y) = 1$$

$$(x + y) = \sin^{-1}(1)$$

$$(x + y) = 90^\circ \dots\dots (ii)$$

On solving equ (i) & (ii) we get,

$$x = 60^\circ \text{ and } y = 30^\circ$$

8. The ratio of length and breadth is 6 : 5 and difference of length and breadth is 25. Find the perimeter of a rectangle.

- a) 550 m
- b) 660 m
- c) 770 m
- d) 880 m

Answer: A

According to the question,

$$6x - 5x = 25$$

$$x = 25$$

$$\text{Perimeter of a rectangle} = 2(l + b)$$

$$= 2(6 \times 25 + 5 \times 25)$$

$$= 2 \times 11 \times 25$$

$$= 550 \text{ m}$$

9. If a polygon of internal angle is 144° , then find the number of sides.

- a) 4
- b) 6
- c) 8
- d) 10

Answer: D

$$\text{Internal Angle} + \text{External Angle} = 180^\circ$$

$$144^\circ + \text{External Angle} = 180^\circ$$

$$\text{External Angle} = 180^\circ - 144^\circ$$

$$\text{External Angle} = 36^\circ$$

$$\text{External Angle} = 360^\circ/n$$

$$36^\circ = 360^\circ/n$$

$$n = 360^\circ/36^\circ = 10$$

$$10. \text{ Solve: } \sqrt{7} + \sqrt{7} + \sqrt{7} + \dots\dots\infty.$$

- a) $\sqrt{28} - 1/2$
- b) $\sqrt{28} + 1/2$
- c) $\sqrt{29} + 1/2$
- d) $\sqrt{29} - 1/2$

Answer: C

$$\sqrt{7} + \sqrt{7} + \sqrt{7} + \dots\dots\infty$$

$$= \sqrt{4a} + 1 + 1/2 = \sqrt{4 \times 7} + 1 + 1/2 = \sqrt{28} + 1 + 1/2 = \sqrt{29} + 1/2$$

11. Find difference between the place value and the face value of 8 in 58346.

- a) 7992
- b) 7993
- c) 7994
- d) 7995

Answer: A

$$\text{The place value of 8 in 58346} = 8000$$

$$\text{The face value of 8 in 58346} = 8$$

$$\text{Difference between the place value and the face value} = 8000 - 8 = 7992$$

12. What should be added to 3596 so that the number is completely divisible by 2, 3, 4, and 6?

- a) 1
- b) 2
- c) 3
- d) 4

Answer: D

$$\text{LCM of 2, 3, 4, 6} = 12$$

According to the question,

$$3596 + x = 12k$$

$$\text{If we put } k = 300$$

$$3596 + x = 12 \times 300$$

$$3596 + x = 3600$$

$$x = 3600 - 3596$$

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$x = 4$

13. 35% of 35% of x is equal to how much % of x .

- a) 12.02%
- b) 12.25%
- c) 122.5%
- d) 1.225%

Answer: B

$$35\% \text{ of } 35\% \text{ of } x = y\% \text{ of } x$$

$$\frac{35}{100} \times \frac{35}{100} \times x = \frac{y}{100} \times x$$

$$y = \frac{(35 \times 35)}{100} = \frac{1225}{100} = 12.25\%$$

14. Find the sum of place value of 3 in 53638?

- a) 3030
- b) 3000
- c) 3300
- d) 3003

Answer: A

$$\text{Sum of place value of } 3 = 3000 + 30 = 3030$$

15. The cost price of an article is Rs.850 and selling price of an article is Rs. 680. Find the loss percent.

- a) 20%
- b) 25%
- c) 30%
- d) 40%

Answer: A

$$\text{Loss percent} = \frac{(\text{CP} - \text{SP})}{\text{CP}} \times 100$$

$$= \frac{(850 - 680)}{850} \times 100$$

$$= \frac{170}{850} \times 100$$

$$= \frac{100}{5}$$

$$= 20\%$$

16. If 24 men can a work in 5 days then how many men complete the work in 6 days?

- a) 10 men
- b) 20 men
- c) 30 men

d) 40 men

Answer: B

According to the question,

$$24 \text{ men} \times 5 \text{ days} = x \text{ men} \times 6 \text{ days}$$

$$x = \frac{24 \text{ men} \times 5 \text{ days}}{6 \text{ days}}$$

$$x = 20 \text{ men}$$

17. A seller sells 10 oranges for Rs. 1 at a profit of 30%.

How many oranges does a seller purchase for Rs.1?

- a) 11 oranges
- b) 12 oranges
- c) 13 oranges
- d) 14 oranges

Answer: C

$$\frac{1}{10} \rightarrow 13$$

$$\frac{1}{x} \rightarrow 10$$

$$1 = \frac{13}{x}$$

$$x = 13$$

18. 15 men or 25 women can complete a work in 22 days.

9 men and 18 women can complete the work in how many days?

- a) 16 (7/3) days
- b) 16 (5/3) days
- c) 16 (1/3) days
- d) 16 (2/3) days

Answer: D

$$15 \text{ men} \times 22 = 25 \text{ women} \times 22$$

$$\text{Men/Women} = \frac{25}{15} = \frac{5}{3}$$

$$\text{Men} = \frac{5}{3} \text{ Women}$$

$$\text{Total work} = 15 \times 5 \times \frac{22}{5} \times 9 + 3 \times 18 = 15 \times 5 \times \frac{22}{99} =$$

$$\frac{50}{3} = 16 \frac{2}{3} \text{ days}$$

19. If $1 + \tan \theta = \sqrt{3}$, then find the value of $\sqrt{3} \cot \theta - 1$.

- a) $(3 + \sqrt{3}/2) - 1$
- b) $(3 + \sqrt{3}/2) + 1$
- c) $(3 - \sqrt{3}/2) - 1$

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d) $(3 - \sqrt{3}/2) + 1$

Answer: A

$$1 + \tan \theta = \sqrt{3}$$

$$\tan \theta = \sqrt{3} - 1$$

$$\cot \theta = 1/\sqrt{3} - 1$$

So,

$$\sqrt{3} \cot \theta - 1$$

$$= (\sqrt{3} \times 1/\sqrt{3} - 1) - 1$$

$$= (\sqrt{3}/\sqrt{3} - 1) - 1$$

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

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

$$= (3 + \sqrt{3}/2) - 1$$

20. The ratio of number of sides of two polygon is 1 : 2 and internal angle of first polygon is 140° . Find the internal angle of second polygon.

a) 220°

b) 200°

c) 180°

d) 160°

Answer: D

$$\text{Internal Angle} + \text{External Angle} = 180^\circ$$

$$\text{External Angle of first polygon} = 180^\circ - 140^\circ = 40^\circ$$

$$\text{No. of sides} = 360^\circ/40^\circ$$

$$n = 9$$

$$\text{So, no of sides of second polygon} = 9 \times 2 = 18$$

$$\text{External Angle of second polygon} = 360^\circ/18$$

$$\text{External Angle of second polygon} = 20^\circ$$

$$\text{Internal Angle of second polygon} = 180^\circ - 20^\circ = 160^\circ$$

21. Solve: $a^3 + b^3 / a^2 - ab + b^2$.

a) a

b) a + b

c) a - b

d) a + b - 1

Answer: B

$$a^3 + b^3 / a^2 - ab + b^2$$

$$= a + b$$

22. If $\sin A - \cos A = 0$, then find the value of $\sin A + \cos A$

A.

a) 1

b) -2

c) 0

d) $\sqrt{2}$

Answer: d

$$\sin A - \cos A = 0, \text{ it means } A = 45^\circ$$

$$\sin A + \cos A = \sin 45^\circ + \cos 45^\circ = 1/\sqrt{2} + 1/\sqrt{2} = \sqrt{2}$$

23. The compound interest on Rs. 16,000/- in 2 years at 10% per annum the interest being compounded half yearly, is:

a) Rs. 3440.1

b) Rs. 3048.1

c) Rs. 3448.1

d) Rs. 3408.1

Answer: C

Compounded half yearly,

$$\text{Principal} = \text{Rs. } 16000, \text{ Rate} = 5\%, \text{ Time} = 4 \text{ years}$$

$$CI = 16000(1 + 5/100)^4 - 16000$$

$$= 16000(1 + 1/20)^4 - 16000$$

$$= 16000(21/20)^4 - 16000$$

$$= 16000 (194481/160000 - 1)$$

$$= 16000 (194481 - 160000/160000)$$

$$= 16000 (194481 - 160000/160000)$$

$$= 16000 \times 34481 / 160000$$

$$= 3448.1$$

24. The price of sugar is increases by 20%. How much consumption should be decreased to get the original price of the sugar?

a) 16 (2/3)%

b) 20%

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c) 15%

d) 18%

Answer: A

Original price = 100x

Increased price = 120x

Decreased consumption = $\frac{20}{120} \times 100 = 16 \frac{2}{3}\%$

25. The side of equilateral triangle is x cm and side of square is also x cm. Find the ratio of their area.

a) $\sqrt{3}/4$

b) $\sqrt{3}/2$

c) 1/2

d) 1/4

Answer: A

Area of equilateral triangle = $\frac{\sqrt{3}}{4} x^2$

Area of square = x^2

Ratio = $\frac{\sqrt{3}}{4} x^2 : x^2$

= $\sqrt{3}/4$

26. How to write 2.6 years in years, month and days?

a) 2 years 5 months 70 days

b) 2 years 7 months 6 days

c) 2 years 5 months 73 days

d) 2 years 7 months 70 days

Answer: B

$2.6 = 2\frac{3}{5} = 2$ years and $\frac{3}{5} \times 12$ months

= 2 years and $\frac{36}{5}$ months

= 2 years 7 months 6 days

27. If we divide $x^4 + x^3 - x^2 + x + 1$ by $x - 3$ then find the remainder.

a) 97

b) 99

c) 100

d) 103

Answer: D

$x - 3 = 0$

$x = 3$

Then, $3^4 + 3^3 - 3^2 + 3 + 1$

= $81 + 27 - 9 + 3 + 1$

= 103

28. A man deposit Rs. 37000/- at rate of 4%, 5% and 6% if simple interest is same then find all three principal.

a) Rs. 15000/-, Rs. 12000/-, Rs. 10000/-

b) Rs. 17000/-, Rs. 13000/-, Rs. 12000/-

c) Rs. 16000/-, Rs. 14000/-, Rs. 15000/-

d) Rs. 10000/-, Rs. 12000/-, Rs. 15000/-

Answer: A

According to the question,

$4P_1 = 5P_2 = 6P_3$

$P_1 : P_2 : P_3 = 15 : 12 : 10$

$37 = \text{Rs. } 37000/-$

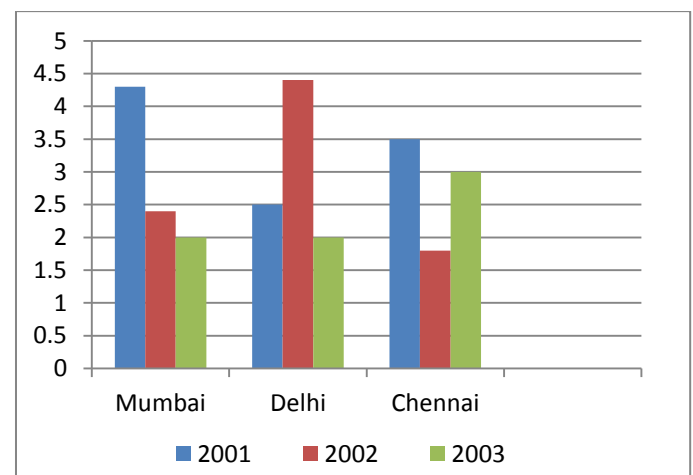
$1 = \text{Rs. } 1000/-$

Then, $P_1 = \text{Rs. } 15000/-$

$P_2 = \text{Rs. } 12000/-$

$P_3 = \text{Rs. } 10000/-$

29. Read the table and find the average rainfall of Chennai.



a) 2.76

b) 2.66

c) 2.56

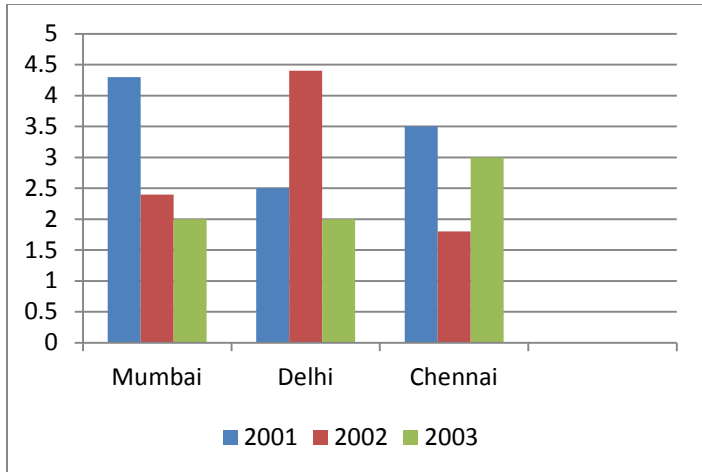
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d) 2.89

Answer: A

Average rainfall in Chennai = $(3.5 + 1.8 + 3)/3 = 8.3/3 = 2.76$

30. Read the table and find the total rainfall in year 2003.



a) 10.3

b) 8.6

c) 7

d) 8.5

Answer: C

The total rainfall in year 2003 = $2 + 2 + 3 = 7$

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