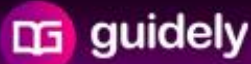


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#### General Awareness

1) Who was the Runner up of the Men's Singles title in Australian Open 2020?

- a) Novak Djokovic
- b) Dominic Thiem
- c) Roger Federer
- d) Daniil Medvedev

Answer: a)

The 2020 Australian Open was a Grand Slam tennis tournament that took place at Melbourne Park. Novak Djokovic was the defending champion and successfully defended his title, defeating Dominic Thiem.

2) What is the full form of LPG?

- a) Liquefied Petroleum Gas
- b) Liquid Petrol Gas
- c) Liquefied Petrol Gasoline
- d) Liquefied Petroleum Geyser

Answer: a)

LPG full form is Liquefied Petroleum Gas. It is also called as liquid petroleum gas which is a flammable blend of hydrocarbon gases applicable for fuel in heating, cooking, and automotive appliances.

3) Dilwara Temple is located in which state?

- a) Gujarat
- b) Rajasthan
- c) Bihar
- d) Assam

Answer: b)

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The Dilwara Temples are a group of svetambara Jain temples located in Mount Abu, Rajasthan. They date between the 11th and 16th centuries, forming some of the most famous monuments in the style of Maru-Gurjara architecture, famous for their use of a very pure white marble and intricate marble carvings.

4) Which is the oldest stock exchange in Asia?

- a) Bombay Stock Exchange
- b) National Stock Exchange
- c) The Stock Exchange of Thailand
- d) Shanghai Stock Exchange

Answer: a)

Bombay Stock Exchange (BSE) is an Indian stock exchange located in Dalal Street, Mumbai which was established in 1875. It is India's and even Asia's oldest stock exchange.

5) World Red cross day is celebrated on which date?

- a) 9 April
- b) 7 October
- c) 11 June
- d) 8 May

Answer: d)

World Red Cross and Red Crescent Day is an annual celebration of the principles of the International Red Cross and Red Crescent Movement. It is celebrated on 8 May each year. This date is the anniversary of the birth of Henry Dunant, who was born on 8 May 1828.

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6) Biography of Kalpana Chawla was written by whom?

- a) Jean Pierre Harrison
- b) Ruskin Bond
- c) Walt Whitman
- d) Tennessee Williams

Answer: a)

Kalpana Chawla was an Indian-American astronaut who was one of the seven crew members killed in the Space Shuttle Columbia disaster. Her biography is written by her husband, Jean Pierre Harrison. The book is titled "The Edge of Time".

7) Who is the first Women IPS officer who crossed the south pole?

- a) Sonia Narang
- b) Roopa Moudgil
- c) Vimla Mehra
- d) Aparna Kumar

Answer: d)

Deputy Inspector General of Indo-Tibetan Border Police (ITBP) Aparna Kumar is the first woman Indian Police Service (IPS) officer to reach South Pole. She is a 2002-batch IPS officer.

8) Diphu Pass is a mountain pass associated with which state/UT?

- a) Ladakh
- b) Jammu and Kashmir
- c) Tripura
- d) Arunachal Pradesh

Answer: d)

Diphu Pass is a mountain pass around the area of the disputed tri-point borders of India, China, and Myanmar. It

is also a strategic approach to eastern Arunachal Pradesh. It lies on the McMahon Line.

9) Internet services for public were started in which year?

- a) 1991
- b) 1995
- c) 1999
- d) 1993

Answer: b)

Internet in India began in 1986 and was available only to the educational and research community. It was publicly available from 15 August 1995. The Indian Government has embarked on projects such as BharatNet, Digital India, Made in India and Startup India to further expedite the growth of internet-based ecosystems.

10) Which is the largest crude oil and natural gas Company in India?

- a) Oil and Natural Gas Corporation
- b) Reliance Petroleum Limited
- c) Indian Oil Corporation
- d) Hindustan Petroleum Corporation

Answer: a)

ONGC, a Maharatna company, is the biggest crude oil and natural gas name in India, contributing around 75% to Indian domestic production. Its registered office is in New Delhi. It is owned by the Government of India, under the administrative control of the Ministry of Petroleum and Natural Gas.

11) Which country has the largest natural gas reserves in the world?

- a) India
- b) Russia

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- c) Myanmar  
d) Bhutan

Answer: b)

Russia holds the largest amount of natural gas reserves in the world. More than half of Russia's gas reserves are located in Siberia. Russia is followed by Iran and Qatar in the Middle East.

12) Directive Principles of State Policy (DPSP) are mentioned in which Part of the Indian constitution?

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

Answer: d)

Directive Principles of State Policy (DPSP) are mentioned in the Part 4 of the Indian constitution from articles 36 to 51. They are taken from the Constitution of the Ireland. Dr. B R Ambedkar described these principles as 'novel features' of the Constitution.

13) The Champaran Satyagraha was started by Gandhiji in which year?

- a) 1917  
b) 1919  
c) 1921  
d) 1925

Answer: a)

The Champaran Satyagraha of 1917 was the first Satyagraha movement inspired by Gandhi and a major revolt in the Indian Independence Movement. Lord Chelmsford served as Governor General and Viceroy of India during Champaran Satyagraha, 1917.

14) India's first successful nuclear bomb test was conducted on\_\_\_\_\_.

- a) 18 May 1974  
b) 15 August 1977  
c) 21 March 1989  
d) 11 April 1972

Answer: a)

Smiling Buddha was the assigned code name of India's first successful nuclear bomb test on 18 May 1974. The bomb was detonated on the army base Pokhran Test Range, in Rajasthan, by the Indian Army.

15) Education was made a fundamental right under which of the following amendment?

- a) 86th amendment, 2002  
b) 83rd amendment, 2003  
c) 87th amendment, 2003  
d) 83rd amendment, 2002

Answer: a)

The Constitution (Eighty-Sixth Amendment) Act, 2002 inserted Article 21-A in the Constitution of India to provide free and compulsory education of all children in the age group of six to fourteen years as a Fundamental Right in such a manner as the State may, by law, determine.

16) Which article was referred to as the 'the heart and soul' of the Indian constitution by Dr. B. R. Ambedkar?

- a) Article 32  
b) Article 35  
c) Article 38  
d) Article 31

Answer: a)

Dr Ambedkar regarded Article 32 as "the very soul of the Constitution and the very heart of it". So, the most unique

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feature of the Indian Constitution is Article 32. It is a fundamental right guaranteed to citizens of India under Part-III of the Constitution.

17) Adhai Din Ka Jhonpra was built by whom?

- a) Qutb-ud-din Aibak
- b) Bahlul Khan Lodi
- c) Ghiyath al-Din Tughlaq
- d) Ghiyas ud-Din Balban

Answer: a)

Adhai Din Ka Jhonpra is a large and imposing structure in the city of Ajmer in Rajasthan. It is one of the oldest mosques in India, and the oldest surviving monument in Ajmer. It was designed by Abu Bakr of Herat and constructed by Qutb-ud-Din-Aibak in 1192 CE.

18) Who has been appointed as the Governor of Meghalaya recently?

- a) Biswa Bhusan Harichandan
- b) Satya Pal Malik
- c) Bhagat Singh Koshyari
- d) V.P. Singh Badnore

Answer: b)

Satya Pal Malik is an Indian politician serving as the 21st and current Governor of Meghalaya. He replaced Tathagata Roy.

19) Which one of the following is the folk dance of Assam?

- a) Damali
- b) Bhavai
- c) Jhumar
- d) Bihu

Answer: d)

The Bihu dance is a folk dance from the Assam state performed on the Bihu festival. Dance is performed by young men and women who wear Assamese traditional attire. It is celebrated in the month of April which marks the onset of spring season.

20) 'Bharat Durdasha' book is authored by whom?

- a) Bhartendu Harishchandra
- b) Abul Kalam Azad
- c) Kishwar Desai
- d) Bankim Chandra Chattopadhyay

Answer: a)

Bharat Durdasha is a hindi Drama by Bhartendu Harishchandra published in 1875. He is considered one of the greatest Hindi writers of modern India.

21) Majuli which is the largest inhabited riverine island in the world is located in which of the following state?

- a) Gujarat
- b) Himachal Pradesh
- c) Arunachal Pradesh
- d) Assam

Answer: d)

World's Largest River Island and Smallest Inhabited River Island Majuli or Majoli is a river island in the Brahmaputra River, Assam. It is also listed as the world's largest river island in the Guinness Book of World Records.

22) Which among the following is NOT the site of Indus Civilization?

- a) Mehrgarh
- b) Chanhudaro
- c) Lothal
- d) Kalibanga

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Answer: a)

Mehrgarh is not the site of Indus Civilization. It is a Neolithic site, which lies on the Kacchi Plain of Balochistan, Pakistan.

23) Which festival is related to the Vamana Avatara of Lord Vishnu?

- a) Bhishma Ekadasi
- b) Pongtu
- c) Losar
- d) Onam

Answer: d)

Onam is a festival that celebrates Vamana Avatara and the homecoming of the King Mahabali. It is one of the most important Hindu festivals of Kerala. The ten-day festival celebrates Vamana incarnation of Lord Vishnu and the homecoming of King Mahabali to review the welfare of his people in Kerala.

24) The Dhuandhar Falls are located on which river?

- a) Indus
- b) Kaveri
- c) Narmada
- d) Tapi

Answer: c)

The Dhuandhar Falls is a waterfall in Jabalpur district in the Indian state of Madhya Pradesh. It is located on Narmada River in Bhedaghat and is 30 meters high.

25) Which Article states that there shall be a President of India?

- a) Article 55
- b) Article 48
- c) Article 52

d) Article 44

Answer: c)

The first and foremost part of the Executive is the President. Article 52 states that there shall be a President of India. The President is considered the Executive head of the country. All the Executive business of the country is carried out in the name of the President.

26) National Programme of Nutritional Support to Primary Education was started in which year?

- a) 1999
- b) 2005
- c) 1995
- d) 2001

Answer: c)

The Mid-day Meal Scheme is a school meal programme of the Government of India designed to better the nutritional standing of school-age children nationwide. It was started in India from 15th August 1995 under the name of 'National Programme of Nutritional Support to Primary Education'.

27) The International Day of Light is observed every year on\_\_\_\_\_.

- a) 18 March
- b) 16 May
- c) 11 November
- d) 15 August

Answer: b)

The International Day of Light is celebrated on 16 May each year, the anniversary of the first successful operation of the laser in 1960 by physicist and engineer, Theodore Maiman. This day is a call to strengthen scientific

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cooperation and harness its potential to foster peace and sustainable development.

28) Who among the following was the first women President of the Indian National Congress?

- a) Indira Gandhi
- b) Annie Besant
- c) Aruna Asaf ali
- d) Sucheta Kriplani

Answer: b)

Annie Besant was the first woman President of Indian National Congress. She presided over the 1917 Calcutta session of the Indian National Congress.

29) Who is the current Vice-chairman of the NITI Aayog?

- a) V K Paul
- b) Ramesh Chand
- c) Rajiv Kumar
- d) Amitabh Kant

Answer: c)

Rajiv Kumar is an Indian economist and is currently the vice-chairman of the NITI Aayog. He is in the rank and status of a Cabinet Minister.

30) The International Monetary Fund (IMF), is headquartered in\_\_\_\_\_.

- a) Washington DC, USA
- b) Gland, Switzerland
- c) Rome, Italy
- d) Brussels, Belgium

Answer: a)

The International Monetary Fund (IMF) is an international financial institution, headquartered in Washington, D.C., consisting of 190 countries working to foster global

monetary cooperation, secure financial stability, facilitate international trade, promote high employment and sustainable economic growth, and reduce poverty around the world. It was formed in July 1944.

31) What is the currency of Turkey?

- a) Peso
- b) Dram
- c) Ngultrum
- d) Lira

Answer: d)

The Turkish lira is the currency of Turkey and Turkish Republic of Northern Cyprus. One Turkish lira is subdivided into one hundred kuruş.

32) The Indian Agricultural Research Institute (IARI), is located in\_\_\_\_\_.

- a) Kolkata
- b) New-Delhi
- c) Bengaluru
- d) Pune

Answer: b)

The Indian Agricultural Research Institute (IARI), is India's national Institute for agricultural research, education and extension in Delhi. It is financed and administered by the Indian Council of Agricultural Research (ICAR). The IARI was responsible for the research leading to the "Green Revolution in India" of the 1970s.

33) Roger Penrose, Reinhard Genzel and Andrea Ghez has got Nobel Prize in which field?

- a) Chemistry
- b) Physics
- c) Literature

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d) Economic Science

Answer: b)

The 2020 Nobel Prize for physics has been awarded to Roger Penrose for black hole discovery and Reinhard Genzel and Andrea Ghez for discovering “a supermassive compact object at the centre of our galaxy.” It is common for several scientists who worked in related fields to share the prize.

34) Who is the Chairman of the Drafting Committee?

- a) Gopala swami Ayyankar
- b) Allad Krishna swami ayyar
- c) Dr. B.R Ambedkar
- d) V. T. Krishnamachari

Answer: c)

On 29 August 1947, the Drafting Committee was appointed, with Dr B. R. Ambedkar as the Chairman along with six other members assisted by a constitutional advisor. These members were Pandit Govind Ballabh Pant, Kanaiyalal Maneklal Munsh, Alladi Krishnaswamy Iyer, N Gopalaswami Ayengar, B L Mitter, Md. Saadulla and D P Khaitan.

35) Who among the following is the CEO of TCS?

- a) Rajesh Gopinathan
- b) C Vijayakumar
- c) Salil Parekh
- d) S N Subrahmanyam

Answer: a)

Rajesh Gopinathan is the CEO and Managing Director of Tata Consultancy Services, a global IT firm. He is one of the youngest CEOs in the Tata Group.

36) Who among the following official is the ex-officio chairman of Rajya Sabha?

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

Answer: b)

The Vice President of India is the ex-officio Chairman of the Rajya Sabha, who presides over its sessions. The Deputy Chairman, who is elected from amongst the house's members, takes care of the day-to-day matters of the house in the absence of the Chairman.

37) Thomas Cup is associated with which sports?

- a) Table-Tennis
- b) Badminton
- c) Hockey
- d) Golf

Answer: b)

The Thomas Cup, is an international badminton competition among teams representing member nations of the Badminton World Federation (BWF), the sport's global governing body. The championships have been conducted every two years since the 1982.

38) \_\_\_\_\_ was the Title Sponsor of the 2020 edition of the Indian Premier League.

- a) Dream 11
- b) Unacademy
- c) Byju's
- d) Amazon

Answer: a)

Dream11 was the Title Sponsor of the 2020 edition of the Indian Premier League. Dream11 (Sporta Technologies

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Pvt. Ltd) is an Indian company based in Mumbai, Maharashtra.

39) Which of the following commission was formed after the incidence of Jallianwala Bagh Massacre?

- a) Reading commission
- b) Montague commission
- c) Hunter commission
- d) Simon commission

Answer: c)

A Committee named Hunter Committee was set up to investigate the Jallianwala Bagh incident. It was led by Lord William Hunter and assisted by five Englishmen and four Indians.

40) Which Indian cricketer is the Brand Ambassador of eBikeGO?

- a) Virat Kohli
- b) Rohit Sharma
- c) Harbhajan Singh
- d) Sachin Tendulkar

Answer: c)

Electric mobility startup eBikeGO has roped in Indian cricketer Harbhajan Singh as its brand ambassador. It is Amritsar based e-mobility start-up.

### Logical Reasoning

1. In a certain code language, 'tik tap oui' is written as '8 7 9', 'map oui ear' is written as '3 1 7' and 'tik tok map' is written as '9 2 1', then how is 'tap' written in that code?

- a) 8
- b) 7
- c) 9

d) 3

Answer: A

'tik tap oui' is written as '8 7 9'

'map oui ear' is written as '3 1 7'

'tik tok map' is written as '9 2 1'

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

**Assertion (A):** Production of milk in India is lesser than other countries production of milk.

**Reason (R):** Stockman of India are poor.

Choose the right option.

- a) A is true but R is false.
- b) A is false but R is true.
- c) A and R both are false.
- d) A and R both are true.

Answer: A

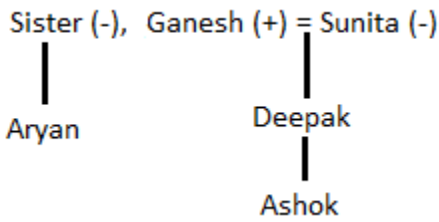
3. Ashok is son of Deepak. Aryan's mother is sister-in-law of Sunita whose mother is married to Ganesh. Ashok is the grandson of Ganesh. How is Aryan related to Ashok?

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

Answer: A



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

**Assertion (A):** Shimla is more cold than Delhi.

**Reason (R):** Shimla is situated at high altitude than Delhi.

Choose the right option.

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

Answer: C

5. Arrange the following letter in natural way and find odd one out.

- a) ESAEIDS
- b) EAHLTH
- c) LISESNL
- d) CKSESNSI

Answer: B

- a) ESAEIDS → DISEASE
- b) EAHLTH → HEALTH
- c) LISESNL → ILLNESS

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d) CKSESNSI → SICKNESS

6. Complete the series.

2, 5, 9, 19, ?

- a) 36
- b) 29
- c) 37
- d) 45

Answer: C

$$2 \times 2 + 1 = 5$$

$$5 \times 2 - 1 = 9$$

$$9 \times 2 + 1 = 19$$

$$19 \times 2 - 1 = 37$$

7. Difference between the age of Sunita and Sheela is 12 years. 9 years before the age of the elder one was 4 times the age of the younger of one. Find their present age?

- a) 11 and 23
- b) 15 and 27
- c) 13 and 25
- d) 23 and 25

Answer: C

Let Sunita be the elder one and her age be 'a' years.

So, age of Sheela = 'a - 12' years.

According to question:

$$a - 9 = 4(a - 12 - 9)$$

$$\Rightarrow a - 9 = 4(a - 21)$$

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$$\Rightarrow a - 9 = 4a - 84$$

$$\Rightarrow a - 4a = -84 + 9$$

$$\Rightarrow -3a = -75$$

$$\Rightarrow a = 25$$

Age of younger one = 25 - 12

$$= 13$$

8. In a certain code language, BEND is written as 7@4# and NIGHT is written as 4\$%89. Find how is DEBT written in that language?

- a) #@79
- b) 37@9
- c) #7@9
- d) 3@79

Answer: A

B	E	N	D
7	@	4	#

N	I	G	H	T
4	\$	%	8	9

Similarly,

D	E	B	T
#	@	7	9

9. Complete the analogy.

Palam : Delhi :: Dum Dum : ?

- a) Mumbai
- b) Hyderabad
- c) Chennai
- d) Kolkata

Answer: D

Palam is a metro station in Delhi.

Dum Dum is a metro station in Kolkata.

10. If 'delicious' is related to 'taste', then 'melodious' is related to '\_\_\_'.

- a) Speak
- b) Highness
- c) Voice
- d) Tongue

Answer: C

11. Statement and their conclusions are given below.

**Statement:**

I. Costs of goods and services depend on demand and supply.

II. When there are more number of buyer then cost increases and when sellers are more then cost decreases.

**Conclusion:**

- I. Sellers and buyers decide the cost of commodities.
- II. On some occasions, cost is decided by market itself.

- a) Only I follows.
- b) Only II follows.

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c) Both I and II follows.

d) Neither I nor II follows.

Answer: C

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

**Assertion (A):** Users of smartphone is increasing in India very rapidly.

**Reason (R):** Decent 3G and 4G coverage are available at low cost.

Choose the right option.

a) A is true but R is false.

b) A is false but R is true.

c) A and R both are true and R is the correct explanation of A.

d) A and R both are true and R is not the correct explanation of A.

Answer: C

13. On the basis of similarity, find the pair which is not given.

5 : 35 :: \_\_\_ : \_\_\_

a) 11 : 55

b) 7 : 77

c) 3 : 21

d) 9 : 45

Answer: C

$5 \times 7 = 35$

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Similarly,

$3 \times 7 = 21$

14. Select the odd one out.

a) Humayun

b) Akbar

c) Babur

d) Birbal

Answer: D

Birbal was not a Mughal emperor.

15. Find the similarity in the following.

Red, Violet, Orange

a) All are names of prism.

b) All are names of fruits.

c) All these are colours of magic.

d) All these colours are found in a rainbow.

Answer: D

**Directions (16 – 18):** Read the information given below and answer the questions based on it.

A, B, C, D, E, F, G and H are sitting around a circular table facing the centre. A is facing H and B is facing C. E is second to the right of F. C is sitting between G and D. H is an immediate neighbour of G.

16. Who is facing D?

a) F

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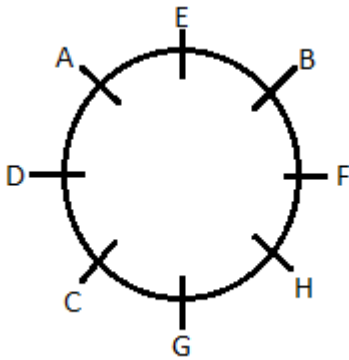
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b) G

c) E

d) C

Answer: A



17. Who is sitting third to the right of C?

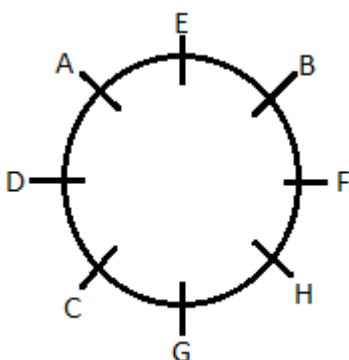
a) H

b) G

c) B

d) F

Answer: D



18. Choose the odd one out.

a) GE

b) DF

c) CB

d) HB

Answer: D

19. 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. All snakes are reptile.

II. No reptile is mammal.

**Conclusion:**

I. No mammal is snake.

II. Some reptile is not mammal.

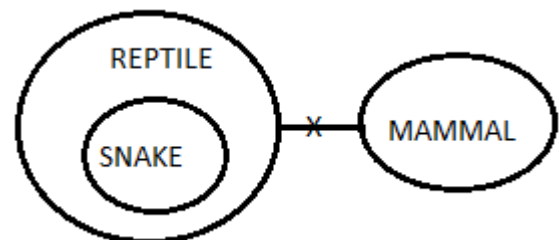
a) Only conclusion II follows

b) Only conclusion I follows

c) Either I or II follows

d) Both I and II follow

Answer: D



I. No mammal is snake. - True

II. Some reptile is not mammal. - True

20. Arrange the following words in a logical sequence.

1. Fever

2. Prescribe

3. Doctor

4. Diagnose

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5. Medicine

a) 1, 3, 4, 2, 5

b) 1, 4, 3, 2, 5

c) 1, 3, 2, 4, 5

d) 1, 2, 4, 3, 5

Answer: A

1. Fever

3. Doctor

4. Diagnose

2. Prescribe

5. Medicine

21. In this question, three statements are given followed by four conclusions. Choose the conclusion(s) which best fit(s) logically.

**Statement:**

I. None but the rich can afford air travel.

II. Some of those who travel by air become sick.

III. Some of those who become sick require treatment.

**Conclusions:**

a) All the rich persons travel by air.

b) Those who travel by air become sick.

c) All the rich persons become sick.

d) All those who travel by air are rich

Answer: D

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

$$2 \times 3 + 6 - 12 \div 4 = 17$$

a)  $\div$  and  $\times$

b)  $-$  and  $+$

c)  $\times$  and  $-$

d)  $+$  and  $\times$

Answer: D

$$2 \times 3 + 6 - 12 \div 4 = 17$$

d)  $+$  and  $\times$

$$2 + 3 \times 6 - 12 \div 4 = 17$$

$$\Rightarrow 2 + 18 - 3 = 17$$

$$\Rightarrow 20 - 3 = 17$$

$$\Rightarrow 17 = 17$$

23. Select the option that is related to the third word in the same way as the second word is related to the first word.

Bird : Fly :: Lamb : ?

a) Lumber

b) Frisk

c) Swoop

d) Prowl

Answer: B

Second one is the name of the movement of the first.

**Direction (24 – 25):** Read the given information and answer the questions based on it.

Among 75 birds lovers, 15 want to see only sunbirds, 10 want to see only fly catches, 12 want to see both sunbird and nutnatch. 15 want to see only bee eater, 13 want to

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see both sunbird and bee eater, 5 want to see both fly catcher and nut hatch and remaining want to see only nut hatch?

24. How many people want to see only one bird?

- a) 5
- b) 75
- c) 45
- d) 25

Answer:

Total bird lovers = 75

Sunbird – 15

Fly catches – 10

Sunbird + nuthatch = 12

Bee eater – 15

Sunbird + bee eater = 13

Fly catcher + nut hatch = 5

People who want to see only nut hatch =  $75 - (15 + 10 + 12 + 15 + 13 + 5) = 5$

People who want to see only one bird =  $15 + 10 + 15 + 5 = 45$

25. How many birds lovers want to see only nut hatch?

- a) 5
- b) 12
- c) 10
- d) 7

Answer: A

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26. Find the wrong term.

50, 45, 35, 35, 0

- a) 45
- b) 35
- c) 0
- d) 50

Answer: B

$50 - 5 = 45$

$45 - 10 = 35$

**$35 - 15 = 20$**

$20 - 10 = 0$

27. Statement and a conclusion are given below.

**Statement:**

I. Habit of online shopping among youth has been a common thing.

II. It is clear that most of them want suggestion to refrain from this addiction.

**Conclusion:**

I. All youth are habitual of online shopping.

II. All youth want suggestion to refrain from this addiction.

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

Answer: D

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28. Find the missing term.

RTO, WYT, ACX, ?

- a) ADF
- b) DFA
- c) DAF
- d) AFD

Answer: B

$$R + 5 = W; W + 4 = A; A + 3 = D$$

$$T + 5 = Y; Y + 4 = C; C + 3 = F$$

$$O + 5 = T; T + 4 = X; X + 3 = A$$

29. Study the following statement carefully and answer the questions.

**Statement:**

The main reason of deceiving public, by asking secret information of their credit card using international number by cyber criminals is that

- I. It is easy to make people believe.
- II. It is difficult to verify foreign calls.

- a) There are only two reasons behind these calls.
- b) People completely trust foreign calls.
- c) It is not possible to know about foreign call.
- d) Cyber criminal refer international calls to deceive simple people.

Answer: D

30. Select the odd word-pair from the given alternatives.

- a) Needle - Stitch
- b) Book : Copy
- c) Pen - Write
- d) Glass - Mirror

Answer: B

All options except option b represents 'Object – Purpose' relationship.

**Mathematics**

1. Volume of a sphere is  $4851 \text{ cm}^3$ . Find its diameter.

- a) 21 cm
- b) 42 cm
- c) 7 cm
- d) 14 cm

Answer: A

$$\text{Volume of sphere} = 4851 \text{ cm}^3$$

$$\frac{4}{3}\pi r^3 = 4851$$

$$\frac{4}{3} \times \frac{22}{7} \times r^3 = 4851$$

$$r^3 = 3^3 \times \frac{7^3}{2^3}$$

$$r = 3 \times \frac{7}{2}$$

$$r = 21/2$$

$$d = 2r = 2 \times 21/2 = 21 \text{ cm}$$

2. Solve:  $(\cos 3x + \cos x) / (\sin 3x + \sin x)$ .

- a) Tan 2x
- b) Cot 2x
- c) Cos 2x
- d) Sin 2x

Answer: B

$$(\cos 3x + \cos x) / (\sin 3x + \sin x)$$

$$= [2 \cos \{(3x + x)/2\} \cos \{(3x - x)/2\}] / [2 \sin \{(3x + x)/2\} \cos \{(3x - x)/2\}]$$

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$$= [\cos \{(3x + x)/2\}] / [\sin \{(3x + x)/2\}]$$

$$= \cot 2x$$

3. Find the sum of all prime numbers between 50 and 60.

- a) 63
- b) 99
- c) 112
- d) 100

Answer: C

$$\text{Prime Numbers} = 53 + 59 = 112$$

4. Which of the following is not the LCM of 3, 4 and x?

- a) 24
- b) 12
- c) 18
- d) 36

Answer: C

5. In first group 14 men can complete the work in 8 days, in second group efficiency of 7 men is  $1/4^{\text{th}}$  of first, then in how many days 7 men can complete the work.

- a) 14 days
- b) 16 days
- c) 64 days
- d) 32 days

Answer: C

Let x be the number of days,

According to the question,

$$14 \text{ men} \times 8 \text{ days} = 7 \times \frac{1}{4} \text{ men} \times x \text{ days}$$

$$64 \text{ days} = x$$

7 men complete the work in 64 days.

6. 8 liters of mixture has 4% of water on it. How much milk is added to make 2% of water?

- a) 14 liters
- b) 12 liters
- c) 16 liters
- d) 8 liters

Answer: D

Let x be the final mixture

According to the question,

$$8 \times \frac{4}{100} = x \times \frac{2}{100}$$

$$x = 16 \text{ liters}$$

Hence, 8 liters of milk is added to make 16 liters of final mixture.

7. Person A start travelling a distance with a speed of 40 km/hr at 1:00 PM, another person B start follow him with a speed of 50 km/hr at 1:40 PM. At what time will they meet?

- a) 160 minutes
- b) 140 minutes
- c) 120 minutes
- d) 100 minutes

Answer: A

$$\text{Distance} = 40 \times \frac{40}{60} = \frac{80}{3} \text{ km}$$

$$\text{Time} = \left(\frac{80}{3}\right) / 10 = \frac{8}{3} \text{ hour} = \frac{8}{3} \times 60 = 8 \times 20 = 160 \text{ minutes.}$$

8. LCM of two numbers is 3 times the largest number and difference of smallest number and HCF is 6. Find the smallest number.

- a) 7
- b) 8
- c) 6
- d) 9

Answer: D

Let the number be a and b,

According to the question,

$$a \times b \times H = 3aH \text{ [if } aH > bH]$$

$$b = 3 \text{ [This is ratio]}$$

$$b \times H - H = 6$$

$$3H - H = 6$$

$$2H = 6$$



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$H = 6/2$

$H = 3$

So, smallest number =  $3 \times 3 = 9$

9. A bag has 7 white balls, 6 red balls and 9 black balls.

Find the possibility of black ball if 2 balls are taken out.

- a) 6/74
- b) 6/77
- c) 12/77
- d) 12/74

Answer: C

Possibility of black ball =  ${}^9C_2 / {}^{22}C_2$

$= [(9 \times 8)/2] / [(22 \times 21)/2]$

$= 72/462$

$= 12/77$

10. Find the rational number between  $\frac{1}{4}$  and  $\frac{1}{2}$ .

- a)  $\frac{3}{2}$
- b)  $\frac{3}{4}$
- c)  $\frac{1}{14}$
- d)  $\frac{3}{8}$

Answer: D

$\frac{3}{2} = 1.5$

$\frac{3}{4} = 0.75$

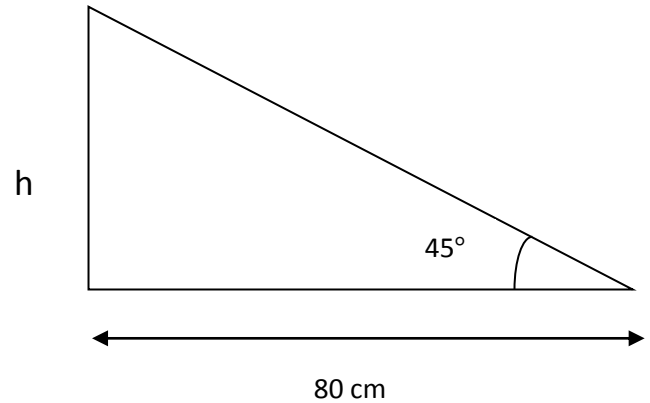
$\frac{1}{14} = 0.08$

$\frac{3}{8} = 0.375$

11. A triangle of slant angle is  $45^\circ$  and base distance is 80 cm. Find the height.

- a) 120 cm
- b) 80 cm
- c) 40 cm
- d) 20 cm

Answer: B



$\tan 45^\circ = h/80$

$1 = h/80$

$h = 80 \text{ cm}$

12.  $\sin x - 3 \cos x = \sqrt{3} \cos x$ . Find the value of  $\cot x$ .

- a)  $(3 - \sqrt{3})/6$
- b)  $(3 + \sqrt{3})/6$
- c)  $(3 - \sqrt{3})/2$
- d)  $(3 + \sqrt{3})/2$

Answer: A

$\sin x - 3 \cos x = \sqrt{3} \cos x$

$\sin x = \cos x + 3 \cos x$

$\sin x = \cos x (3 + \sqrt{3})$

$\sin x / \cos x = (3 + \sqrt{3})$

$\tan x = (3 + \sqrt{3})$

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

$\cot x = (3 - \sqrt{3})/6$

13. Sum of age of Sita, Geeta and Ramesh is 120 year.

Find the sum of age before 3 years.

- a) 120 year
- b) 129 year
- c) 130 year
- d) 135 year

Answer: B

Sum of age before 3 years,

$\text{Sita} - 3 + \text{Geeta} - 3 + \text{Ramesh} - 3 = 120$

$\text{Sita} + \text{Geeta} + \text{Ramesh} - 9 = 120$

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$$\text{Sita} + \text{Geeta} + \text{Ramesh} = 120 + 9$$

$$\text{Sita} + \text{Geeta} + \text{Ramesh} = 129$$

14. If  $136/(x - 4)$ , then find the minimum integer of  $x$ .

- a) 21
- b) 20
- c) 23
- d) 19

Answer: A

$$136/(x - 4)$$

If we put  $x = 21$  then  $136/(21 - 4) = 136/17 = 8$

15. If  $x + 1/x = 3$ , then find the value of  $x^3 + 1/x^3$ .

- a) 18
- b) 19
- c) 15
- d) 16

Answer: A

$$x + 1/x = 3$$

Cubing both the sides we get,

$$(x + 1/x)^3 = 3^3$$

$$x^3 + 1/x^3 + 3(x + 1/x) = 27$$

$$x^3 + 1/x^3 + 3 \times 3 = 27$$

$$x^3 + 1/x^3 + 9 = 27$$

$$x^3 + 1/x^3 = 27 - 9$$

$$x^3 + 1/x^3 = 18$$

16. Average of A, B and C is 35 and median is  $A + 18$ .

Find the least possible value of C if  $A \leq B \leq C$ .

- a) 41
- b) 20
- c) 23
- d) 87

Answer: A

$$A + B + C = 35 \times 3 = 105$$

$$B = A + 18$$

$$\text{Then } A + A + 18 + C = 105$$

$$2A + C = 105 - 18$$

$$2A + C = 87$$

$$C = 87 - 2A$$

$$B \leq C$$

$$A + 18 \leq 87 - 2A$$

$$3A \leq 87 - 18$$

$$3A \leq 69$$

$$A \leq 23$$

$$\text{so, } C = 41$$

17. Solve:  $\sin 41^\circ/\cos 49^\circ + \cos 41^\circ/\sin 49^\circ$ .

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

Answer: B

$$\sin 41^\circ/\cos 49^\circ + \cos 41^\circ/\sin 49^\circ$$

$$= \sin 41^\circ/\sin 41^\circ + \cos 41^\circ/\cos 41^\circ$$

$$= 1 + 1$$

$$= 2$$

18. Simplify:  $22 \times 15\%$ .

- a) 4.4
- b) 4
- c) 3.3
- d) 3

Answer: C

$$22 \times 15\%$$

$$= 22 \times 15/100$$

$$= 33/10$$

$$= 3.3$$

19. Solve:  $176 + 17.6 + 1.76 + 0.176 + 0.0176$ .

- a) 176.5536
- b) 185.5536
- c) 196.5536
- d) 195.5536

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Answer: D

$$176 + 17.6 + 1.76 + 0.176 + 0.0176 \\ = 195.5536$$

20. An article is sold at 14% profit. If selling price reduces to Rs. 66/- at 10% loss, then find the cost price of an article.

- a) Rs. 275/-
- b) Rs. 200/-
- c) Rs. 300/-
- d) Rs. 375/-

Answer: A

According to the question,

$$14\% \text{ of CP} + 10\% \text{ of CP} = 66$$

$$24\% \text{ of CP} = 66$$

$$\text{CP} = 6600/24 = 275/-$$

21. Find the total factor of  $2^7 \times 3^3 \times 5^3 \times 7^1$ .

- a) 278
- b) 240
- c) 256
- d) 289

Answer: C

$$2^7 \times 3^3 \times 5^3 \times 7^1$$

$$= 8 \times 4 \times 4 \times 2$$

$$= 256$$

22. A rhombus of one diagonal is 10 cm and other diagonal is 8.2 cm. Find the area of rhombus.

- a) 46 cm<sup>2</sup>
- b) 40 cm<sup>2</sup>
- c) 42 cm<sup>2</sup>
- d) 41 cm<sup>2</sup>

Answer: D

$$\text{Area of rhombus} = \frac{1}{2} \times 10 \times 8.2$$

$$= 5 \times 8.2$$

$$= 41 \text{ cm}^2$$

23. Solve:  $\sqrt{1521/1849}$ .

- a) 41/53
- b) 39/43
- c) 43/39
- d) 30/59

Answer: B

$$\sqrt{1521/1849} = 39/43$$

24. Number of square is subtracted from number and is equal to 812. Find the number.

- a) 29
- b) 20
- c) 12
- d) 16

Answer: A

Let the number be x,

According to the question,

$$x^2 - x = 812$$

$$x(x - 1) = 812$$

$$\text{Hence, } x = 29$$

25.  $\frac{3}{5}$  of  $\frac{7}{17}$  of  $\frac{2}{5}$  of number is equal to 84, then 40% of the number is.

- a) 300
- b) 340
- c) 200
- d) 260

Answer: B

Let the number be x,

According to the question,

$$\frac{3}{5} \times \frac{7}{17} \times \frac{2}{5} \times x = 84$$

$$x = 850$$

$$40\% \times 850$$

$$= \frac{40}{100} \times 850$$

$$= 340$$

26. A hexagon of side is 5 cm. Find the area.

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a)  $50\sqrt{3}/2$

b)  $25\sqrt{3}/2$

c)  $75\sqrt{3}/2$

d)  $55\sqrt{3}/2$

Answer: C

Area of hexagon =  $6 \times \sqrt{3} \times 25/4 = 75\sqrt{3}/2$

27.  $\sin(A - B) = \frac{1}{2}$  and  $\cos(A + B) = \frac{1}{2}$ . If  $A > B$ , then find the value of A and B.

a)  $45^\circ$  and  $15^\circ$

b)  $40^\circ$  and  $10^\circ$

c)  $40^\circ$  and  $12^\circ$

d)  $47^\circ$  and  $12^\circ$

Answer: A

$\sin(A - B) = \frac{1}{2}$

$(A - B) = 30^\circ$

$\cos(A + B) = \frac{1}{2}$

$(A + B) = 60^\circ$

on solving

$A = 45^\circ, B = 15^\circ$

28. Find the smallest 4 digit number which is divisible by 2, 3 and 5 and leaves remainder 1.

a) 1017

b) 1018

c) 1019

d) 1020

Answer: D

LCM of 2, 3 and 5 = 30

Number = (LCM)  $\times$  k + remainder

=  $30 \times k + 1$

If  $k = 34$ , then

=  $30 \times 34 + 1$

=  $1020 + 1$

= 1021

29. If a man purchases an article of 120/- at 5% loss, then find the selling price.

a) Rs. 114/-

b) Rs. 104/-

c) Rs. 189/-

d) Rs. 156/-

Answer: A

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

$5 = (1 - SP/CP) \times 100$

$5/100 = 1 - SP/120$

$1/20 = 1 - SP/120$

$1 - 1/20 = SP/120$

$19/20 = SP/120$

SP = 114/-

30. If ratio of age of A and B is 5 : 3 after 5 year ratio of A and B is 10 : 7. Find the difference between the present age of A and B.

a) 5

b) 2

c) 3

d) 6

Answer: D

According to the question,

A : B = 5 : 3

A + 5 : B + 5 = 10 : 7

$5x + 5 : 3x + 5 = 10 : 7$

$7 \times (5x + 5) = 10 \times (3x + 5)$

$35x + 35 = 30x + 50$

$35x - 30x = 50 - 35$

$5x = 15$

$x = 15/5$

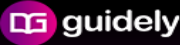
$x = 3$

A =  $5 \times 3 = 15$

B =  $3 \times 3 = 9$

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$$A - B = 15 - 9 = 6$$

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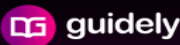
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