

Section : General Intelligence

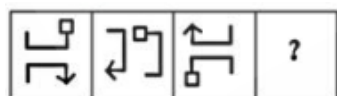
1. A figure of transparent sheet with a pattern is given below. Select the option that shows how the pattern would appear when the transparent sheet is folded at the dotted line.



- A.
- B.
- C.
- D.

Ans. A

2. Select the figure that will come next in the following figure series.



- A.
- B.
- C.
- D.

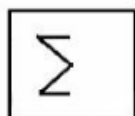
Ans. D

3. Vikram is twice as old as his brother Ajay. 5 years ago, Vikram was 3 times as old as Ajay. How old is Vikram now?

- A. 20 B. 22
C. 18 D. 17

Ans. A

4. Select the option in which the given figure is embedded.



- A.
- B.

- C.
- D.

Ans. C

5. Select the option that is related to the third letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster.

DFHJ : MOQS : : CGGK : _____

- A. NQQT B. LQQT
C. LPPT D. NPPT

Ans. C

6. Select the Venn diagram that best illustrates the relationship between the following classes.

Moon, Venus, Universe

- A.
- B.
- C.
- D.

Ans. A

7. If R = 36 and BIN = 50, then how will you code 'TALE'?

- A. 19 B. 110
C. 76 D. 54

Ans. C

8. Select the correct mirror image of the given figure when the mirror is placed to the right of the figure.

-
- A.
- B.
- C.
- D.

Ans. B

9. उस शब्द-युग्म को चुनें जिसमें दो शब्द उसी तरह संबंधित हैं जैसे निम्नलिखित शब्द-युग्म में दो शब्द संबंधित हैं।

भूकंप विज्ञान : भूकंप :: _____ : _____

- A. कीटविज्ञान : पौधे
B. पक्षीविज्ञान : पक्षी
C. फाइकोलॉजी : कवक
D. वृक्क विज्ञान: नसें

Ans. B

10. 'Man' is related to 'Mammal' in the same way as 'Rat' is related to '_____'.
A. Mice B. Rodent
C. Burrow D. Reptile

- A. Mice B. Rodent
C. Burrow D. Reptile

Ans. B

11. निम्नलिखित चार शब्दों में से तीन शब्द एक निश्चित तरीके से एक जैसे हैं और एक अलग है। उस अलग शब्द को चुनें।

- A. नोक B. पिच
C. स्केटिंग रिंग D. अखाड़ा

Ans. A

12. Three of the following four letter-clusters are alike in a certain way and one is different. Pick the odd one out.

- A. OQTX B. EGJN
C. IKNQ D. ACFJ

Ans. C

13. Three different positions of the same dice are shown. Which alphabet will appear on the opposite surface on which alphabet P appear?



- A. Z B. S
C. T D. X

Ans. A

14. Rohit's age is 10 years less than half of his mother's age who is 5 years younger than Rohit's father. If Rohit's father is 47 years old, what is Rohit's age?

- A. 10 years B. 11 years

- C. 14 years D. 21 years

Ans. B

15. Three of the following four numbers are alike in a certain way and one is different. Pick the number that is different from the rest.

- A. 313 B. 323
C. 353 D. 373

Ans. B

16. Mayank's father has a brother, Prakash, whose daughter. Ritu is Kavita's mother. Sonu is Ritu's only brother. How is Sonu related to Mayank ?

- A. Brother B. Cousin
C. Nephew D. Son

Ans. B

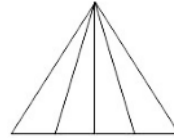
17. Select the set in which the numbers are related in the same way as are the numbers of the following set.

(6, 36, 1296)

- A. (7, 49, 2409) B. (4, 16, 64)
C. (3, 9, 81) D. (10, 100, 5000)

Ans. C

18. How many triangles are there in the following figure?



- A. 9 B. 10
C. 8 D. 6

Ans. B

19. Select the number that will come next in the following series.

2, 6, 14, 30, 62, ?

- A. 122 B. 98
C. 134 D. 126

Ans. D

20. Which number will replace the question mark (?) in the following series?

4, 16, 36, 64, 100, 144, 196, ?

- A. 256 B. 284
C. 225 D. 246

Ans. A

21. M is the brother of N. N is the brother of P. Q is the father of M. Based on these

statements, which of the following statements cannot be definitely true?

- A. P is the brother of M
- B. m is the brother of P
- C. n is the son of Q
- D. n is the brother of M

Ans. A

22. Select the letter cluster that will come next in the following series.

LVD, OTF, RRH, ?, XNL

- A. UQI
- B. TPJ
- C. TQJ
- D. UPJ

Ans. D

23. Two statements are given followed by three conclusions numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements

Statements :

No ball is pen. All pens are boxes

Conclusions :

- I. some boxes are pens
- II. Some boxes are balls.
- III. No box is ball
- A. Either conclusion II or III follows
- B. Conclusion I and either II or III follows
- C. All conclusion follow
- D. Only conclusion I follows

Ans. B

24. Which two signs should be interchanged in the following equation to make it correct?

$$5 \times 15 \div 7 - 20 + 4 = 77$$

- A. (\div and $+$)
- B. ($+$ and $-$)
- C. ($+$ and \times)
- D. ($-$ and \times)

Ans. A

25. Select the set in which the numbers are related in the same way as are the numbers of the following set.

(3, 5, 34)

- A. (9, 10, 190)
- B. (4, 7, 65)
- C. (6, 7, 89)
- D. (1, 2, 12)

Ans. B

Section : General Awareness

1. Select the option that does NOT have the correct pair of state and its chief minister?

- A. Arunachal Pradesh – Gegong Apang
- B. Odisha – Naveen Patnaik
- C. Sikkim – P S Golay
- D. Andhra Pradesh – Jaganmohan Reddy

Ans. A

2. Which one of the following is a degenerative disorder of the brain and one of several conditions that cause dementia, a progressive decline of mental functions resulting in memory loss and confusion?

- A. Schizophrenia
- B. Alzheimer’s disease
- C. Amnesia
- D. Concussion

Ans. B

3. In May 2019, _____ became the first judge from the Indian apex court to be appointed to the Supreme Court of Fiji’s non-resident panel for a period of three years.

- A. Justice Madan Lokur

- B. Justice A K Sikri
- C. Justice H L Dattu
- D. Justice A K Goel

Ans. A

4. Which of the following states won the maximum number of medals in the inaugural 2018 edition of the ‘Khelo India School Games’?

- A. Jharkhand
- B. Delhi
- C. Haryana
- D. Maharashtra

Ans. C

5. India is a federal republic with 29 states and _____ union territories.

- A. Six
- B. Four
- C. Five
- D. Seven

Ans. D

6. According to the Constitution of India, how many members from the Anglo-Indian community can be nominated to the Lok Sabha by the President?

- A. Five
- B. Two
- C. Three
- D. Four

Ans. B

7. According to Indian Bureau of Mines Report 2018, which among the following is the largest mica producing state in India?
A. Bihar B. Odisha
C. Punjab D. Andhra Pradesh
Ans. D
8. As a part of SIMBEX-2019, held from 16 to 22 May 2019. Indian naval ships INS Kolkata and INS Shakti participated in the annual bilateral naval exercise between India and _____.
A. Japan B. US
C. Russia D. Singapore
Ans. D
9. Which of the following mountain ranges is home to the second highest peak of the world, K2?
A. Pir Panjal Range
B. East Karakoram Range
C. Ladakh Range
D. Zaskar Range
Ans. B
10. At NASA's annual Human Exploration Rover Challenge, a team from _____ in India won the 'AIAA Neil Armstrong Best Design Award' in April 2019.
A. Indian Institute of Technology, Delhi
B. Lovely Professional University, Phagwara
C. Mukesh Patel School of technology management and Engineering, Mumbai
D. KIET Group of Institutions, Ghaziabad
Ans. D
11. Marmagao Port is located in _____.
A. Odisha B. West Bengal
C. Gujarat D. Goa
Ans. D
12. In which state are the Dilwara Jain Temples situated?
A. Rajasthan B. Bihar
C. Maharashtra D. Madhya Pradesh
Ans. A
13. Who among the following was elected the President of South Africa in May 2019?
A. Thabo Mbeki
B. Jacob Zuma
C. Cyril Ramaphosa
D. F W de Klerk
Ans. C
14. As of May 2019, Vidarbha has won _____ Ranji trophy tournaments.
A. 3 B. 8
C. 5 D. 2
Ans. D
15. Who is the author of the famous book 'Kamayani'?
A. Sumitranandan Pant
B. Mahadevi Verma
C. Jaishankar Prasad
D. Maithali Sharan Gupt
Ans. C
16. Name the Nobel Prize winning American economist whose report to the US Congress titled "National Income, 1929-35" paved the way for the calculation of Gross Domestic Product (GDP) as the ultimate measure of a country's overall welfare.
A. Paul Samuelson
B. John Maynard Keynes
C. Simon Kuznets
D. Kenneth Arrow
Ans. C
17. Which one of the following allows the user to store, organize, calculate and manipulate the available data in a tabular format?
A. Microsoft Powerpoint
B. Notepad
C. Microsoft Excel
D. Microsoft Word
Ans. C
18. Who is the current Chief of the Army Staff of India as of May 2019?
A. General Devraj Anbu
B. General Dalbir Singh Suhag
C. General Bikram Singh
D. General Bipin Rawat
Ans. D
19. Which one of the following is defined as "a set of instructions, data or programs used to operate computers and execute specific tasks"?
A. Processor B. Hardware
C. Malware D. Software

Ans. D

20. Which one of the following is a Japanese word that means 'harbour wave'?

- A. Gneiss B. Jishin
C. Volcano D. Tsunami

Ans. D

21. Who among the following authored the book 'Poverty and Un-British Rule in India'?

- A. Rajagopalachari
B. Dadabhai Naoroji
C. Bal Gangadhar Tilak
D. Raja Ram Mohan Roy

Ans. B

22. The responsibility of regulating and supervising primary (urban) cooperative banks, which are popularly known as Urban Cooperative banks (UCBs) is vested with which one of the following?

- A. The Department of Non-Banking Supervision of the Reserve Bank of India
B. The Urban Banks Department of the Reserve Bank of India

- C. State Co-operative Banks
D. The Department of Corporate Services of the Reserve Bank of India

Ans. B

23. Which of the following at 23°30'N divided India into almost two halves?

- A. Equator
B. Tropic of Capricorn
C. Prime Meridian
D. Tropic of Cance

Ans. D

24. Srirangapatnam Fort is located in ____.

- A. Kerala B. Karnataka
C. Telangana D. Tamil Nadu

Ans. B

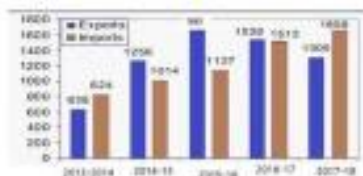
25. After Winning 'Australian Open 2018', the total number of Grand Slam Men's singles titles won by Roger Federer is :

- A. 18 B. 20
C. 21 D. 24

Ans. B

Section : Quantitative Aptitude

1. The given bar graph presents the Imports and Exports of an Item (in tonnes) manufactured by a company for the five financial years, 2013-2014 to 2017-2018.



What is the average of Import (in tonnes) during the five financial years?

- A. 1229.5 B. 1552.4
C. 1229.2 D. 1335.9

Ans. C

2. A certain amount invested at a certain rate, compounded annually grows to an amount in five years, which is a factor of 1.1881 more than to what it would have grown in three years. What is the rate percentage?

- A. 9 B. 8.1
C. 8 D. 9.2

Ans. A

3. If $\cos \theta = \frac{2p}{p^2 + 1}$, ($p \neq 0$) then $\tan \theta$ is equal to :

- A. $\frac{p^2 + 1}{p^2 - 1}$ B. $\frac{p^2 - 1}{2p}$
C. $\frac{2p}{p^2 + 1}$ D. $\frac{2p}{p^2 - 1}$

Ans. B

4. If $(3x - 7)^3 + (3x - 8)^3 + (3x + 6)^3 = 3(3x - 7)(3x - 8)(3x + 6)$, then what is the value of x?

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

Ans. B

5. What is the area of a rhombus (in cm²) whose side is 13 cm and the smaller diagonal is 10 cm?

- A. 192 B. 96
C. 120 D. 50

Ans. C

6. Two circles of radii 7 cm and 9 cm intersect at the points A and B. If AB = 6 cm, and the distance between the centres of the circles is x cm, then the value of x (to the closest integer) is :

- A. 10 B. 15
C. 14 D. 12

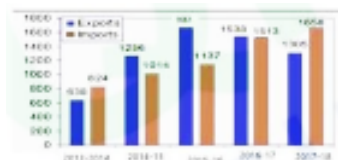
Ans. B

7. Three numbers are in the ratio $1/2 : 2/3 : 3/4$. The difference between the greatest and the smallest number is 27. The smallest number is :

- A. 81 B. 40
C. 72 D. 54

Ans. D

8. The given bar graph presents the Imports and Exports of an Item (in tonnes) manufactured by a company for the five financial years, 2013-2014 to 2017-2018.



What is the ratio of total Exports to total Imports during the five financial years?

- A. 3199 : 3073 B. 4175 : 4011
C. 3073 : 3199 D. 4011 : 4175

Ans. A

9. Let $\Delta ABC \sim \Delta PQR$ and $\frac{\text{ar}(\Delta ABC)}{\text{ar}(\Delta PQR)} = \frac{1}{16}$. If

AB = 12 cm, BC = 6 cm and AC = 9 cm then PR is equal to :

- A. 9 cm B. 12 cm
C. 8 cm D. 24 cm

Ans. D

10. A, B and C can complete a piece of work in 4, 28 and 56 days respectively. Working together, they can complete the same work in how many days?

- A. $5\frac{5}{17}$ B. $3\frac{1}{17}$
C. $5\frac{1}{17}$ D. $3\frac{5}{17}$

Ans. D

11. A circle inscribed in a triangle ABC. It touches sides AB, BC and AC at the points P, Q and R respectively. If BP = 8.5 cm. CQ = 6.5 cm and AR = 4.5 cm, then the perimeter (in cm) of the ΔABC is :

- A. 35 B. 49.5
C. 39 D. 33

Ans. C

12. In triangle ABC, D and E are two points on the sides AB and AC respectively so that $DE \parallel BC$ and $AD/BD = \frac{3}{4}$. The ratio of the area of ΔABC to the area of trapezium DECB is :

- A. 33 : 49 B. 49 : 40
C. 40 : 49 D. 49 : 33

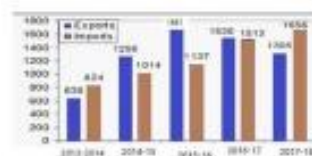
Ans. B

13. A man bought 2 articles for Rs. 3050 each. He sold one article at 10% profit and another at 20% profit. The total profit percentage he earned is :

- A. 10% B. 18%
C. 15% D. 20%

Ans. C

14. The given bar graph presents the Imports and Exports of an Item (in tonnes) manufactured by a company for the five financial years, 2013-2014 to 2017-2018.



In which financial year the absolute difference between the Exports and the Imports is the highest?

- A. 2017-2018 B. 2014-2015
C. 2015-2016 D. 2016-2017

Ans. C

15. There was 29% off on bags. A lady bought a bag and got 13% discount for paying in cash. She paid Rs. 617.70. What was the price tag (in Rs.) on the bag?

- A. 750 B. 1000
C. 800 D. 925

Ans. C

16. A man gets a discount of 30% and then 20% on his food bill of ₹ 1500. How much discount, in rupees did he get?

- A. 700 B. 360
C. 660 D. 500

Ans. C

17. If $x^4 + x^{-4} = 1442$, ($x > 0$) then the value of $x + x^{-1}$ is :

- A. 7 B. 8
C. 6 D. 15

Ans. C

18. If $2\sin^2\theta + 5\cos\theta - 4 = 0$, $0^\circ < \theta < 90^\circ$, then the value of $\tan\theta + \sin\theta$ is :

- A. $\frac{\sqrt{3}}{3}$ B. $\frac{\sqrt{3}}{2}$
C. $\frac{2}{\sqrt{3}}$ D. $\frac{3\sqrt{3}}{2}$

Ans. D

19. 9 years ago, the average age of a family of five members was 33 years. Now, three new members join whose ages are in ascending order with consecutive gaps of 8 years. If the present average age of the family is the same as it was 9 years ago, what is the age (in year) of the youngest new member?

- A. 15 B. 17
C. 10 D. 9

Ans. C

20. If $x + \frac{1}{x} = 10$, then $x^3 + \frac{1}{x^3}$ is equal to :

- A. 970 B. 1030
C. 1000 D. 1100

Ans. A

21. If $a^2 + b^2 = 99$ and $ab = 11$, ($a > 0, b > 0$) then the value of $(a^3 - b^3)$ is :

- A. 1250 B. 968
C. 1100 D. 1080

Ans. B

22. In a ΔABC , the bisectors of $\angle B$ and $\angle C$ meet at point O within the triangle. If

$\angle BOC$ is given, then which among the given options is true?

- A. $\angle A = 2(90^\circ - \angle BOC)$
B. $\angle A = 180^\circ - \angle BOC$
C. $\angle A = 90^\circ + \angle BOC$
D. $\angle A = 2(\angle BOC - 90^\circ)$

Ans. D

23. A train covers 60 km at a uniform speed. If the speed had been 8 km/h more, it would have taken 10 hours less for the same journey. What is the speed of the train (in km/h)?

- A. 4 B. 2.5
C. 3 D. 5

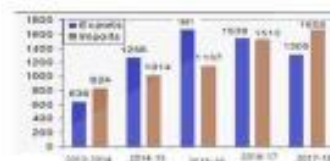
Ans. A

24. A number is decreased by 30%, then increased by 30% then further decreased by 10%. What is the net increase/decrease percent in the number (correct to the nearest integer)?

- A. 18% increase B. 19% decrease
C. 19% increase D. 18% decrease

Ans. D

25. The given bar graph presents the Imports and Exports of an Item (in tonnes) manufactured by a company for the five financial years, 2013-2014 to 2017-2018.



In which financial year the percentage increase in Imports and Exports taken together is the highest in comparison to its previous financial year?

- A. 2016-2017 B. 2014-2015
C. 2017-2018 D. 2015-2016

Ans. B

Section : English Language

1. Given below are four jumbled sentences. Out of the given options pick the one that gives their correct order.

- (A) They had come from different parts of the city
(B) Men, tall and skinny, short and fat gathered in Dubai

- (C) They were all named Mohammed!
(D) But, all of them had one thing in common
- A. BADC B. BDAC
C. ADCB D. ABCD

Ans. A

2. Identify the segment which contains the grammatical error
The ambulance have arrived on time, the accident victim was taken to the hospital
- A. The accident victim
B. Have Arrived on time
C. The ambulance
D. Was taken to the hospital

Ans. B

3. Identify the segment which contains the grammatical error
The Principal requested to the Chief Guest to inaugurate the sports meet
- A. The Principal requested
B. The sports meet
C. To the Chief Guest
D. To inaugurate

Ans. C

4. Given below are four jumbled sentences. Out of the given options pick the one that gives their correct order.
- (A) Practicing hard, she hoped to win an Olympic medal some day
(B) As she sped down the slope she had a terrible accident
(C) But, she didn't know it would be her last run ever.
(D) Ann Thompson was going to make her practice ski run before lunch
- A. DCBA B. BCDA
C. DACB D. ACDB

Ans. C

5. Select the wrongly spelt word
- A. Missionary B. Jewellery
C. Elementery D. Hereditary

Ans. C

6. Identify the most appropriate option to substitute the underlined segment. If no substitution is required, select No substitution.

Of Rama and Usha **the later is the most** responsible

- A. The later is more
B. The latter is the more
C. The latter is most
D. No substitution

Ans. B

7. Select the most appropriate meaning of the given idiom.
To grease the palm
- A. To give support
B. To bribe someone
C. To cheat someone
D. To give a massage

Ans. B

8. Select the most appropriate indirect form of the given sentence.
The lawyer said to be accused, "Where were you at the time of the burglary?"
- A. The lawyer asked the burglar where he was at the time of burglary
B. The lawyer asked the burglar that where was he at the time of burglary
C. The lawyer asked the burglar if he was there at the time of burglary
D. the lawyer asked the burglar where you at the time of burglary

Ans. B

9. Select the most appropriate passive form of the given sentence?
Have you paid your outstanding bills?
- A. Have your outstanding bills been paid?
B. Are your outstanding bills being paid?
C. Have your outstanding bills being paid?
D. Will your outstanding bills be paid?

Ans. A

10. Select the correctly spelt word
- A. Compitition B. Distruction
C. Contruction D. Repetition

Ans. D

11. Fill in the blank with the most appropriate word.
The ____ appears to be rather today for the ships to sail.
- A. Environment B. Climate
C. Atmosphere D. Weather

Ans. D

12. Select the most appropriate antonym of the given word.

- A. Dense
- B. Strong
- C. Thin
- D. Weak

Ans. A

13. Select the most appropriate word for the group of words.

One whose hobby is stamp collection

- A. Phonologist
- B. Philanthropist
- C. Philatelist
- D. Panegyrist

Ans. C

Comprehension :

In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank.

“Tenzing and Hillary have done it! Mount Everest has been conquered!” This news evoked (1)_____ reactions. Somehow, there was a sense of disappointment (2)_____ the fact that the great mountain had been (3)_____ it would have been nice to (4)_____ the Everest as an (5)_____ part of the Earth.

14. Select the most appropriate option to fill in blank number 1.

- A. Intruding
- B. Intimate
- C. Interesting
- D. Inspired

Ans. C

Comprehension :

In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank.

“Tenzing and Hillary have done it! Mount Everest has been conquered!” This news evoked (1)_____ reactions. Somehow, there was a sense of disappointment (2)_____ the fact that the great mountain had been (3)_____ it would have been nice to (4)_____ the Everest as an (5)_____ part of the Earth.

15. Select the most appropriate option to fill in blank number 2.

- A. on
- B. of
- C. at
- D. for

Ans. C

Comprehension :

In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank.

“Tenzing and Hillary have done it! Mount Everest has been conquered!” This news evoked (1)_____ reactions. Somehow, there was a sense of disappointment (2)_____ the fact that the great mountain had been (3)_____ it would have been nice to (4)_____ the Everest as an (5)_____ part of the Earth.

16. Select the most appropriate option to fill in blank number 3.

- A. invaded
- B. challenged
- C. occupied
- D. conquered

Ans. D

Comprehension :

In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank.

“Tenzing and Hillary have done it! Mount Everest has been conquered!” This news evoked (1)_____ reactions. Somehow, there was a sense of disappointment (2)_____ the fact that the great mountain had been (3)_____ it would have been nice to (4)_____ the Everest as an (5)_____ part of the Earth.

17. Select the most appropriate option to fill in blank number 4.

- A. Be leaving
- B. Left
- C. Had left
- D. Have left

Ans. D

Comprehension :

In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank.