

Questions asked in CGL Exam held from 3–9 March 2020 (All Days, All Shifts)



Questions Asked in the General Awareness Section:

1. Brahmagiri National Park is located in which district of Karnataka? - Kodagu(Coorg) District
2. Who was awarded 50th Dada Saheb Phalke award? - Amitabh Bachchan
3. Who was the last ruler of the Nanda Dynasty? Dhananand
4. Ajatshataru was the son of _____. Bimbisara.
5. In which of the following states ASCEND 2020 held? KERALA
6. Kramyodha Granth is written on _____. NARENDRA MODI
7. Which law states that 'The force of attraction decreases as we increase the distance between two charges'? - Coulomb's Law
8. Which gland is present between the lungs? - THYMUS Gland
9. Which acid is present in vinegar? - Acetic Acid
10. What is the name of laughing gas? - NITROUS OXIDE
11. R. RamaSwami is awarded by which country?
12. Which state of North East changed its state symbol
13. Khadi Board opened its first Silk processing plant recently in which state? - Gujarat
14. When was the construction of the gateway of India started? - 31 March 1913
15. Lady Willingdon Garden was the former name of _____. - Lodhi Garde

16. While cutting onion, amino acid is changed into _____. Sulfenic acid
17. Hieun Tsang visited during the period of _____. - **Harshavardhana**
18. Who was the last ruler of the Gupta Dynasty? - **Skandagupta**
19. Who is the current BCCI secretary? - Jay Shah
20. Who was the last ruler of the Mauryan dynasty? - Brihadratha
21. Which of the following countries is not a member of SAARC? - Myanmar
22. Which of the following is not part of Brain? - Pinna
23. How many watts in 1 Horsepower? - 746 watt approx
24. Which planet is known as Lucifer? - Venus
25. Who discovered Radioactivity?- Henri Becquerel
26. Who is the prime minister of Bhutan?- Lotay Tshering
27. Which city is located on the bank of the Yangtze river? - Shanghai
28. Jyotirao Phule belongs to which state? - Maharashtra
29. Dry ice is known as _____. - Solid Carbon Dioxide
30. Which of the following bones does not belong to the ear? - Femur
31. Bhupesh Baghel is the Chief Minister of which state? - Chattisgarh
32. Neutron was discovered by _____. - James Chadwick
33. Which of the following foreign visitors came during the reign of Jahangir? - Sir Thomas Roe



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34. Which of the following actresses acted in the 'Mission Mangal' movie? - Vidya Balan

35. Who is the current president of Sri Lanka? - Gotabaya Rajapaksa

36. Who was the Star Campaigner in the Maharashtra Election? - Madhuri Dixit

37. Kartarpur corridor was inaugurated by _____ . Imran Khan

38. Reverse repo rate and base rate are formulated by _____ . RBI

39. Harika dronavalli who got Padma Shri belongs to which sports? Chess

40. Sanchi Stupa was rediscovered in which year? 1818

41. World Food Organization headquarters are located in _____ Rome.

42. In which of the following states Hampi is located? - Karnataka

43. Which player consecutively scored 4 - double hundreds? - Virat Kohli

44. Which of the following books is not written by Salman Rushdie?

45. What is GST Rate on lottery? - 28%

46. Fox 21 is acquired by _____. - Disney

47. Which country's longest-serving king passed away in 2020? Oman, Sultan Qaboos of Oman

48. Araku Valley is situated in which state? Andhra Pradesh

Questions Asked in English language & Comprehension Section :

1. Antonym- Glorious. Answer- undistinguished

2. Idiom- Blow one's own trumpet. Answer-talk boastfully about one's achievements.

3. Idiom- Spill the beans. Answer-reveal secret information unintentionally or indiscreetly.

4. Incorrect spelling- Negotiate

5. Cloze test - on water management.

6. One word substitution- A place to keep your clothes. Ans. wardrobe

7. Incorrect spelling of Partner

8. One word - One who doesn't talk much. Ans. Reticent

9. Synonym - Implore. Ans. Beg

10. Synonym - Vigilant. Ans. Watchful

11. Synonym- Pathetic, hilarious

12. Antonyms- Vicious Ans. Gentle/ Kindly

13. Idiom- Snake in the grass. Ans. a treacherous person, especially one who feigns friendship.

14. Correct spelling- Magnificent

15. Incorrect spelling - Practical, splashy

16. One word substitution- Emigrant Ans- a person who leaves their own country in order to settle permanently in another

17. Cloze test - topic - man and machine

18. Synonyms - Sympathy. Answer- Pity

19. Idiom - By shank's mare. Answer-ride on shanks' mare" is to walk to your destination.

20. Fill in the blanks - She _____ a heinous crime. Ans. committed

21. Antonym - Plaintiff Answer- defendant, suspect



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22. Error spotting - The Prime Minister along with other ministers have left for America. *Answer-* Has will be used instead of have, phrases like along with agrees according to the subject used before them, here the subject is the prime minister which is singular and will agree with a singular verb.

23. Convert the sentence into Active Voice - The thief is being arrested by the police. *Answer-* The police is arresting the thief

24. Narration - She said to me, "What are you doing?" *Ans.* She asked me what I was doing.

25. One word - a duration of 10 years. *Ans.* Decade

26. Fill in the blanks - It is _____ day to start your new business. (ominous, auspicious). *Ans.* Auspicious

27. Idiom - Hard nut to crack. *Ans.* stubborn

28. Idiom - French leave. *Ans.* leave while attendance is made by proxy

29. Synonym - Scintillating. *Ans.* shining

30. Antonym - Exodus *Ans.* influx

31. Sentence improvement - One of the boys of my school were selected in the cricket team. *Ans-* was

32. Antonym - Quiescent, *Ans.* - Active

33. Synonym - Obligatory *Ans.* mandatory

34. Cloze test - Grammar-based and on a topic related to communication.

35. One word - Study of dogs. *Ans.* Cynology

36. One word substitution - Unable to be heard. *Ans.* Inaudible

37. One word - mourning song/ a song sung in grief. *Ans.* Dirge

38. Parajumble - PQRS based

39. Correctly Spelt word - with four different options - Exhibit

40. Error Spotting - All the players, as well as captain, was feeling happy over the victory of the team. *Ans.* The verb should be plural as per the subject-verb agreement rule.

Questions Asked in Quantitative Aptitude Section:

1. If $x^2 + x + 1 = 0$ then find $x^6 + 1/x^6$.

यदि $x^2 + x + 1 = 0$ तो $x^6 + 1/x^6$ ज्ञात करें। *Ans.:* 2

2. There are two different bottles A and B of the same capacity. If bottle A contains 35% orange juice and rest 65% apple juice and Bottle B contains (1/3)rd orange juice and rest is apple juice. Then find the total percentage of apple juice in the mixture.

एक ही क्षमता के दो अलग-अलग बोतल A और B हैं। यदि बोतल A में 35% संतरे का रस है और बाकी 65% सेब का रस है और बोतल B में (1/3)rd संतरे का रस है और बाकी सेब का रस है। फिर मिश्रण में सेब के रस का कुल प्रतिशत ढूँढें। *Ans.:* 65.83%

3. The average of 5 numbers is 85.8. The average of first four numbers is 3 times the fifth number. Find the fifth number.

5 संख्याओं का औसत 85.8 है। पहले चार नंबरों का औसत पांचवें नंबर का 3 गुना है। पांचवा नंबर ज्ञात कीजिए। *Ans.:* 33

4. In an equilateral triangle ABC, AD is perpendicular to BC and $AD = 4\sqrt{3}$ cm then find the perimeter of triangle ABC.

एक समबाहु त्रिभुज ABC में, AD BC पर लंबवत है और $AD = 4\sqrt{3}$ सेमी तो त्रिभुज ABC का परिमाण ज्ञात करें। *Ans.:* 24 cm



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5. If $(\sec\theta - \tan\theta)/(\sec\theta + \tan\theta) = 9$ then find $(\cos\theta + \sec\theta + \tan\theta)$.

यदि $(\sec\theta - \tan\theta)/(\sec\theta + \tan\theta) = 9$ तो $(\cos\theta + \sec\theta + \tan\theta)$ का मान ज्ञात करें।
Ans.: 18/5

6. If an article is marked 40% above its Cost Price and then two successive discounts of 25% and 20% are offered on the article. The seller incurs a loss of Rs.144 on the whole transaction. Find the Cost Price of the Article. Ans.: Rs.900

यदि किसी आर्टिकल को उसकी लागत मूल्य से 40% ऊपर अंकित किया जाता है और फिर 25% और 20% की दो रियायती छूट दी जाती है। विक्रेता को पूरे लेनदेन पर 144 रुपये का नुकसान होता है। आर्टिकल का लागत मूल्य ज्ञात कीजिए।

7. If A can complete a work in 40 days and B is 25% more efficient than A and C is 20% more efficient than B. If A, B, and C work together for 5 days then what portion of the work would be completed?

यदि A किसी कार्य को 40 दिनों में पूरा कर सकता है और B, A की तुलना में 25% अधिक कुशल है और C, B की तुलना में 20% अधिक कुशल है, यदि A, B और C एक साथ 5 दिनों के लिए कार्य करते हैं, तो कार्य का कितना भाग पूरा होगा?

8. A is 20% faster than B. They start walking towards each other from two different places at the same time. After meeting each other, A takes 2.5 hr to reach the other end. Find the time taken by B to reach the other end.

A, B से 20% अधिक कुशल है। वे एक ही समय पर दो अलग-अलग स्थानों से एक-दूसरे की ओर चलना शुरू करते हैं। एक दूसरे से मिलने के बाद, A को दूसरे छोर तक पहुंचने में 2.5 घंटा लगता है। दूसरे छोर तक पहुंचने के लिए B द्वारा लिया गया समय ज्ञात करें।

9. If $x^2+y^2 + xy = 7$ and $x^4 +x^2.y^2+ y^4 = 21$ then find the value of $1/x^2 + 1/y^2$.

यदि $x^2+y^2 + xy = 7$ और $x^4 +x^2.y^2+ y^4 = 21$ तो $1/x^2 + 1/y^2$ का मान ज्ञात करें।

10. In two cylinders, the radius and height of the first cylinder is 3 cm and 4 cm respectively and the other cylinder's radius and height is 4 cm and 9 cm respectively. Then find the ratio of the volumes of both cylinders.

दो सिलेंडर में, पहले सिलेंडर की त्रिज्या और ऊंचाई क्रमशः 3 सेमी और 4 सेमी है और दूसरे सिलेंडर की त्रिज्या और ऊंचाई क्रमशः 4 सेमी और 9 सेमी है। फिर दोनों सिलेंडर के आयतन का अनुपात ज्ञात करें।

11. If average of 5 consecutive even numbers is m, and if we add next 5 even numbers in the sequence then what would be the average of all 10 even numbers.

12. In triangle ABC, AD is angle bisector of A. If AB = 4cm, AC = 6cm and BD = 3cm then find the length of DC.

13. Simplify: $27a^3 - 2\sqrt{2} b^3$

14. If Marked price of an article is set 40% above its cost price and the seller gives a discount 20% then find the profit.

15. If a Simple Interest on a sum for 3 years at 5% pa is 1200. Then find compound interest on the same sum for 3 years at the same rate of interest.

16. In triangle ABC, AB is equal to AC and If A = 40 degree. Find angle B.

17. In a circle of radius 5cm a chord at a distance of 3cm is drawn. Find the length of the chord.

18. In a right angled triangle ABC, B = 90 degree and perpendicular is equal to 8cm and hypotenuse is equal to 17cm. Find the value of $\cot\theta$

19. If A can do a piece of work in 20 days and B can do the same work in 25 days. If they both start working together and B leaves the work after 5 days, find the



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time taken by A to complete the remaining work.

20. If $A + B = 45^\circ$ then find the value of $2(1 + \tan A)(1 + \tan B) = ?$

यदि $A + B = 45^\circ$ है तो $2(1 + \tan A)(1 + \tan B)$ का मान ज्ञात कीजिए?

21. If $x - y = 4$ & $xy = 45$ then $x^3 - y^3 = ?$

यदि $x - y = 4$ & $xy = 45$ तो $x^3 - y^3 = ?$

22. In a triangle ABC, D and E are the mid points of AB & AC respectively. If $AE : EC = 4 : 5$ and area of trapezium BCED is 130 cm^2 . Then find the area of triangle ADE?

त्रिभुज ABC में, D और E क्रमशः AB & AC के मध्य बिंदु हैं। यदि $AE : EC = 4 : 5$ और ट्रेपेज़ियम BCED का क्षेत्रफल 130 वर्ग सेमी है तो त्रिभुज ADE का क्षेत्रफल ज्ञात कीजिए?

23. A, B, and C can complete a piece of work in 15, 24, 20 days respectively. They start working together If B and C work only for 3 days then find the number of days in which A alone completes the remaining work.

A, B, और C क्रमशः 15, 24, 20 दिनों में एक काम पूरा कर सकते हैं। वे एक साथ काम करना शुरू करते हैं यदि B और C केवल 3 दिनों के लिए काम करते हैं तो उन दिनों की संख्या का पता लगाए, जिसमें A अकेला बचा हुआ काम पूरा करता है।

24. If $x = 4 \sin A + 5 \cos A$ and $y = 5 \sin A - 4 \cos A$ then find the value of $x^2 + y^2$.

यदि $x = 4 \sin A + 5 \cos A$ and $y = 5 \sin A - 4 \cos A$, तो $x^2 + y^2$ का मान ज्ञात करें।

25. If $1005X4$ is completely divisible by 8 then find the minimum value of X.

यदि $1005X4$, 8 से पूरी तरह से विभाज्य है तो X का न्यूनतम मान ज्ञात कीजिए।

26. If a circular track has a radius of 42 m then find the distance covered by a man in the 8 rounds of the track.

यदि एक सर्कुलर ट्रैक की त्रिज्या 42 मीटर है तो उस ट्रैक के 8 राउंड लगाने में एक व्यक्ति द्वारा तय की गई दूरी का पता लगाए।

27. If a train passes a pole in 12 sec. and crosses a platform of length 170 m in 36 sec. Then find the speed of the train in kmph.

अगर कोई ट्रेन 12 सेकंड में एक पोल को पार करती है। और 36 सेकंड में लंबाई 170 मीटर के एक प्लेटफॉर्म को पार करती है तो ट्रेन की गति किमी.प्रति घंटा में बताइए।

28. In a rectangle the length is increased by 40% and breadth is decreased by 20% then find the effective change in the area of the rectangle.

एक आयत में लंबाई 40% बढ़ जाती है और चौड़ाई 20% कम हो जाती है, फिर आयत के क्षेत्रफल में प्रभावी परिवर्तन का पता लगाए।

29. If the Marked Price of an article is Rs. 224 and a profit of 12% is earned by giving a discount of 28%. Then find the Cost Price of Article.

यदि किसी वस्तु का अंकित मूल्य रु. 224 है | और एक दुकानदार 28% की छूट देकर 12% का लाभ अर्जित करता है तो वस्तु की लागत मूल्य ज्ञात कीजिये।

Questions Asked in the General Intelligence & Reasoning Section :

1. Arrangement of words in dictionary order:

1. Rights, 2. Righteous, 3. Rightly, 4. Rigid, 5. Rigour

Ans- (order will be - 2, 3, 1, 4, 5)

2. Analogy (number) : $12 : 72 :: 22 : 242$

$:: 18 : ?$
Ans- 162 (logic : $12 \times 12/2 = 72$), ($22 \times 22/2 = 242$), ($18 \times 18/2 = 162$)



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3. Analogy words) - Medicine : Disease :: Food : ?
Ans- Hunger

4. Syllogism-
Statements : Some elephants are animals.
Some animals are tiger.
Conclusions: I. Some elephants are tiger.
1. No animals are tiger.
Ans- neither I nor II follows.

5. Logical Venn diagram - (based on figure having information : Triangle represents Women, rectangle represents officers.....)
How many women are officers?

6. Number set - select the appropriate relation. (269, 278, 296)
(Logic - a difference of 9 between the first two numbers and difference of 18 second two numbers)

7. Ages of Ram & Shyam is 5: 6 and the difference is of 5 years. Find the age of Shyam after 5yrs?

8. Missing Number :

6	21	14
40	500	?
8	25	7

Ans. 91
(Logic: $6 \times 8 - 8 = 40$)

9. Analogy(word) - Clock : Time :: Ammeter : ?
Ans. Current.

10. Rectangle based counting figure -
Ans. 33 rectangles in total.

11. Cube and Dice - (closed dice)
Which number is opposite to 6?

12. Missing Number :

28	30	18
----	----	----

36	32	36
252	240	?

13. (Logic : $28 \times 36 / 4 = 252$)
Ans. 162

14. Word analogy: Calendar : Date :: Clock : ?
Ans. Time.

15. Letter series : O, B, L, C, I, D, F, ?
(Logic: -3, -3, -3.....)
Ans. E

16. Logical Venn diagram : Mother, Female, Police officer

17. Number series : 87, 88, 90, 93, ?
Ans. 97
(Logic: +1,+2,+3,+4)

18. Analogy(word pair)- Faculty : Teacher :: ? : ?

19.Counting figure - (question figure is a combination of triangle and rectangle)... we have to find number triangles ?

20. Syllogism- Statements : I. All books are cover.
No cover is pen.

21. Arrangement of words (logical order) - 1.Nonagon,2. Heptagon, 3.Pentagon, 4. Hexagon, 5. Octagon
Ans. order will 3,4,2,5,1

22. Cardiology related to Heart then Neurology related to '_____'?
Ans. Brain

23. If PEN is coded as 321028 then how would you code TUB ?
Ans. TUB= 40424 (Logic: place value x 2)

24. Number series : 55, 58, 64, ?, 85Ans. 73
(Logic: +3, +6, +9, +12)

25. Letter series : J, M, P, ?, VAns. S
(logic: +3 in all)

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26. Number analogy : 2809 : 53 : : 1024 : ?Ans. 32
(logic: square of second digit = first digit)

27. Word analogy: Faculty : Teacher
Option A. Colony : Wolves
Option B. Fleet : Trucks
Option C. Galaxy : Constellation

28. Find the Missing number?

5	41	4
9	202	11
15	?	6

(logic- In row 1: Sq of 1st no. + sq. of 3rd no. = 2nd no.)
Ans. 261



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Questions Asked in the General Awareness Section:

1. Who is the current managing director of IMF? **Kristalina Georgieva**
2. Sucheta Kriplani was the chief minister of which state? **Uttar Pradesh**
3. Which among the following has released the book Karmayodha Granth which is based on the life of Modi? **Amit Shah**
4. Who chaired the island development agency meeting held in Jan 2020? **Amit Shah**
5. Which of the following are not the twin cities of India? Hubli and
6. Keynes, who gave the Keynes law, was from which country? **England**
7. Who was the first Governor of Madhya Pradesh? **Pattabhi Sitaramayya**
8. Who is appointed as the foreign secretary of India? **Harsh Vardhan Shringla**
9. Jawara dance is related to which state? **Madhya Pradesh**
10. Methane is also known as _____. **Marsh gas**
11. Jelly fish belongs to which family? **Ulmariidae**
12. Chhatrapati Shivaji Terminus was built in which year? **May 1888**
13. Who topped the Forbes list for the top 20 Indian in USA in terms of wealth? **Rakesh Gangwal**
14. Inscription of Samudragupta was written on which pillar? **Allahabad pillar**
15. In which state mission Indradhanush 2.0 was launched? **Bihar/ UP**

16. Which city is known as Athens of East? **Madurai**
17. Which of the following was the first capital of Magadh? **Rajagriha**
18. Which metal is most used in making gold medal for the Olympics? **Silver**
19. Who is the president of the World Bank? **David Malpass**
20. World Bank has predicted India's GDP to grow at _____ 5 _____
21. Who got the Padma Shree in Archery in 2019? **Bombayla Devi Laishram**
22. Raja Rani Temple is situated in which state? **Bhubaneswar, the capital city of Odisha,**
23. Article 17 is related to _____ untouchability .
24. The outer sphere of moon is called _____. **Hill sphere or Roche sphere**
25. Which of the following dance is not related to the state of Jammu and Kashmir? **Dandi**
26. Who has written the biography of Harshavardhana? **Banabhatta**
27. Capital of Magadh was shifted to _____ in 4th century BC. **Patliputra**
28. Which of the following artificial lake is situated in Gujarat? **Hamirsar Lake**
29. Which country did 3D printing the first artificial heart from heart cell? **Israel**
30. Who is the current Army chief of India? **Manoj Mukund Naravane**
31. Article 15 is related to _____ **.Prohibition of discrimination on grounds of religion, race, caste, sex or place of birth**



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32. xerophthalmia is caused by the deficiency of which vitamin? **Vitamin A**

33. Where is Asia's Largest Spice Market?
New Delhi

34. Eiffel tower height increased in summer due to which reaction?- **thermal expansion**

35. Which of the following governor-general of India abolished the sati system? **William Bentick**

36. Who among the following cricketers has scored the triple century apart from Virendra Sehwag? **Karun Nair**

37. How many member countries are there in IMF? **189**

38. In which country Iranian General Qasem Soleimani was killed by the USA?
Baghdad, Iraq

39. Vijaywada is situated on the bank of which river? **Krishna River**

40. Which among the following options are in the chronological order of Mughal empire? **Babur-->Humayun-->Akbar--> Jahangir--> Shahjahan-->Auranzeb**

41. Who is the current Governor of Kerala? **Arif Mohammed**

42. Article 370 is related to which state?
Jammu & Kashmir

43. Who among the following got the Nobel prize in chemistry twice? **Friedrick Sanger**

44. Kalbeliya dance is related to which state? **Rajasthan**

45. Khelo India 2020 was held in which state? **Guwahati, Assam**

Questions Asked in the English language & Comprehension Section:

1. Antonym- Liberty. **Ans. Dependence**

2. Antonym - Revere **Ans. Despise**

3. One word substitution - One who doesn't obey any order. **Ans. Disobedient**

4. Idiom - Back to square one. **Ans. The idiom means "to go back to the beginning, after a dead-end or failure".**

5. Synonym - Serene. **Ans. calm, peaceful, and untroubled; tranquil.**

6. Spelling - comprise

7. Incorrect spelling - Consumption

8. Incorrect spelling - Treasure

9. Cloze test - topic = Man and his mistakes

10. Sentence Improvement - XYZ is one of the best (**college**).

11. Synonym - Probit

12. Idiom- In a dead heat

13. One word - moral principles that govern a person's behaviour **Ans. Ethics**

14. Active/passive - This book was written by Maya. **Ans. Maya wrote this book.**

15. Antonym - Broad **Ans. Narrow.**

16. Synonym - Prodigal
Ans. having or giving something on a lavish scale.

17. Idiom - Bee knee
Ans. Excellent or very high quality

18. Antonym - Obsolete
Ans. Contemporary

19. Cloze test - on the topic - discipline and why is it necessary



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20. One word - One who loads and unloads packages from the ship.
Ans: stevedore/docker/longshoreman

21. Spelling - Veterinary

22. Narration - The teacher said to me, "I haven't submitted the assignment."
Ans. The teacher told me that he hadn't submitted the assignment.

23. One word - Uncontrolled concerted running as an act of mass impulse among herd animals or a crowd of people
Ans. Stampede

24. Passive/Active - His sister taught him English subject.
Ans. He was taught English subject by his sister.

25. Error spotting - When I reached the cinema hall, the movie had already began.
Ans. error - change **began** to **begun**. We need a third form of verb with the auxiliary **had**.

26. Fill in the blanks - A reward is _____ which encourages an employee to achieve his goals.
Options: Recognition/ memorial

27. Synonym - Acknowledgment
Ans. Acceptance

28. Antonym - Fragile
Ans. Robust

29. Idiom - to throw a fit
Ans. to become very angry or worried.

30. Synonym - Fury
Ans. Anger

31. Synonym - Solitary
Ans. Lonely

32. Error spotting from - No sooner than

33. Error spotting with sentence structure like - I am **believing**

34. Cloze test- Passage was based on chocolate factory establishment

35. idiom - Hold water - To be calm or patient

36. Sentence improvement - Your advice (**benefit to me**).

37. One word- A conceited and self-centred person. Answer- Egoist

38. Antonym - sparse. Ans. Abundant

39. Spelling(Incorrect)- Ignorance

40. Spelling (incorrect) - Elicit

41. One word Substitution- a plane figure with eight straight sides and eight angles.
Ans. octagon

Questions Asked in the General Intelligence & Reasoning Section:

1. Number series - 15, 17, 13, 19, 21, 17, ? Ans - 23

2. 17, 20, 15, 13, 13, ?Ans - 6

3. Number set : (139, 114, 109) Ans. Logic: -25, -5....

4. Syllogism:
Statements : All car are rocket.
Some car are bike.
Conclusions: I. Some bike are car.
II. Some rocket are car.
Ans. Both I and II follows.

5. Analogy word : Bee : Hive : : Cow : ?
Ans. Stable

6. Missing number:

5	8	15
41	100	261
4	6	6



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Logic: (1st column- square of 1st no. + square of 3rd no. = 2nd no.)

7. Select odd one out:

- Option A. TSR
- Option B. YWX
- Option C. RQP
- Option D. CBA

Ans. YWX is odd one out. (logic: -1,-1)

8. Counting of triangles?

Total number of triangles = 22.

9. Coding-Decoding:

If NOVEMBER was written as ONEVBMRE then how is THURSDAY written in the same language?

Ans. HTRUDSYA (cross coding)

10. Blood relation:

A is the father of B. C is the mother of D. E is the father of A. B & D are brothers. How is B related to E?

Ans. B is the grandson of E.

11. Fillers :

_ SWS _ WS _ SWSSS _ W

Ans. WSSS

Pattern formed will be : WS/ WSS/ WSSS/ WSSSS/W

12. Number series : 4, 25,121, ?, 529,961.

Ans. Sq, of 17 = 289 (Logic: Square of prime numbers)

13. If GUM is written as 49441169 then how is WAX coded in the same language?

Ans. (Logic: Square of the place value of letter within the word).

So, WAX = 5291576.

14. If PYTHON is coded as LMFRWN then how would you code RYTHM?

Ans. RYTHM = KFRWP (logic: **cross coding & -2, -2...**)

15. Word analogy:

Turmeric : Spices :: Dates : ?

Ans. Dry fruit.

16. Number analogy:

6 : 252 :: 5 : ?

Ans. 210 (**Logic: 6 x 42 = 252**).

17. Odd one out- (Logic : second no. is divisible by 1st no. except C).

Option A. 11 - 154

Option B. 5 - 155

Option C. **8 - 138 (Ans)**

Option D. 6 - 138

18. Arrangements (logical order):

1. mm

2. cm

3. km

4. meter

Order will be- 1,2,4,3

19. Odd one out; **Ans. C**

Option A. Rajkot

Option B. Ahmedabad

Option C. Jadcherla (city in Telangana)

Option D. Surat

Missing number:

Ans. 464

20. Logic: 11 - 1 cube = 1

28 - 2 cube = 8

327 - 3 cube = 27

So, 4 cube = 64 , it becomes 464

5125 - 5 cube = 125

21. Syllogism:

Statements:

Some buses are cars.

All cars are trucks.

Conclusions:

1. All trucks are bus.

2. Some trucks are cars.

3. No car is truck.

Ans. **only II follows.**

22. Number series : 1537, 1539, 1543, ?, 1557

Ans. 1549 (Logic- +2, +4, +6, +8)

23. Number series : 10, 20, 43, ?

Ans. 79 (Logic- +10, +23, +36/ +13, +13)

24. Syllogism-

Statements: All Singer are Dancer.

No Dancer are Plumber.



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Conclusions:

1. Some Dancer is Singer. (true)
 2. Some Plumber is Singer.(false)
 3. No Singer is Plumber. (true)
- Ans. Both I and III follows.

25. Odd one out- All other are capitals of Indian states.

- Option A. Hyderabad
 Option B. Aurangabad (**odd one**) - city
 Option C. Chennai
 Option D. Gangtok

26. Analogy-

Dentist : Doctor :: Chemistry : ?
 Ans. **Science**

27. Letter analogy:

DAG : FCI :: HEK :?
 Ans. JGM (addition of +2 in each letter)

28. Letter series : GI, IK, LN, ?

Ans. **PR**

Logic:

$G(+2) = I, I(+3) = L, L(+4) = P$
 $I(+2) = K, K(+3) = N, N(+4) = R$

29. Arrange the state according to the population?

- UP
- MP
- Andhra Pradesh
- Arunachal Pradesh
- Himachal Pradesh

Ans. The correct order will be:
 UP > MP> Andhra pradesh > Himachal pradesh> Arunachal Pradesh.
 1,2,3,5,4

Questions Asked in the Quantitative Aptitude Section:

1. A seller sells an article at 18% discount on MRP and gets 20% profit. If selling price is 216. Find the lost price

2. If $\sec\theta - \tan\theta = x/y, 0 < x < y$
 Find the value of $\sin\theta$

3. In triangle ABC $\angle ABC = 68^\circ, \angle ACB = 32^\circ$. External bisectors of $\angle B$ and

$\angle C$ intersect at point P. find the angle BPC.

4. $2x + 1, x + 2, 2$ and 5 are in proportion find the mean proportion of $3.5(1 - x)$ and $8(1 + x)$.

5. If $a + b + c = 1, ab + bc + ca = 3$ and $abc = -135$ find the value of $a^3 + b^3 + c^3$

6. In a right angle triangle ABC right angled at A. $AC = 24$ cm and $AB = 7$ cm. AD is perpendicular to BC and M is the midpoint of BC. Find AM : AD.

7. A conical tent having a base perimeter of 66 cm and a height of 36 cm. find the area of canvas required.

8. A seller gives a discount of 18% on marked price by how much percent should be mark-up so that he gain 66% profit?

9. If $5x + 13x = 4$, then $9x^2 + 125x^2$?

10. PRT is a tangent to the circle, touches the circle at point R. SQ is a diameter of the circle which intersects the tangent at point T. If $\angle QRT = 28^\circ$, then what is the value of $\angle SQR$?

11. A circle is drawn inside the quadrilateral ABCD, touches all the four sides of the quadrilateral. If $AB = 7, CD = 2.4, AD = 4.2$, then find the value of BC.

12. Two chords AB & CD of a circle are extended to meet at point P. If $AB = 7$ cm, $BP = 4.2$ cm, $DP = 2.8$, then what is the value of CD ?

13. A and B together can do the work in d days. A can do the work in 8 more days than A and B. B can do the work in 18 more days than A and B. If A alone started the work & left after 4days, then remaining work will be completed by B in.



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14. If $a + b + c = 7$, $ab + bc + ca = -6$ then find the value of $a^3 + b^3 + c^3 - 3abc$?

15. If a person covers a distance of 12 km in downstream, at the same time he covers a distance of 7 km in upstream. If the speed of the current is 3 km/hr, then in how much time a person covers a distance of 44.8 km in still water.

16. Two successive discounts are given on list price of Rs 740 and the final selling price is 566.10. If the first discount is of 15% and the second discount is of $x\%$, then what is the value of x ?

17. If $30x^2 - 15x + 1 = 0$, then $25x^2 + 136x = ?$

18. Find the ratio of mean proportional of 14.4 & 3.6 to the third proportional of 3 & 4?

19. Find the value of $3 \sec 2\theta \cdot \tan 2\theta + \tan 6\theta - \sec 6\theta$?

20. ABC is an isosceles triangle with $AB = AC$. A circle from point B touches the side AC at midpoint D and intersects the side AB at point E. If $AE = 2.5$ cm, then what is the value of AB?

21. A person earns a profit of 20% after allowing two successive discounts of 25% & 20% on an article. If no discount is offered, the what would be his profit percent?

22. How many values of x are possible, when 732 is divided by x leaving remainder 12?

23. A can do the work in 30 days. B is 25% more efficient than A and C is 20% more efficient than B. If they all work together for 3 days, then B can complete the remaining work in :

24. If $P = \text{Rs } 12000$, $R = 8\%$ p.a and $T = 258$ yr, then compound interest = ?

25. The ratio of boys to girls in a class is 7: 6. If 4 boys join the class and 3 girls left the class then the ratio becomes 4 : 3. What is the number of students initially?

26. An amount of Rs x is divided among 4 persons in the ratio $1/3 : 1/5 : 1/6 : 1/9$. If the difference between the shares of B & D is Rs 832, then find the total amount?

27. If $\sec \theta + \tan \theta = p$, then $\frac{p^2-1}{p^2+1} = ?$

28. If $x + y + z = 3$ and $x^2 + y^2 + z^2 = 101$, then $\sqrt{x^3 + y^3 + z^3 - 3xyz} = ?$

29. A sells an article to B at a loss of 20%, B sells it to C at a profit of 12.5% and C sells it to D at a loss of 8%. If the cost price for D is 248.4, then what is difference of losses of A & C?

30. A sum of Rs 8000 amounts to Rs 9261 at the rate of 10% in some years when compounded half yearly. If the same amount is lent at double interest rate compounded annually for the same time, then find the compound interest?

31. A, B & C donate 8%, 7% & 9% respectively of their incomes. Incomes of A & B are equal & the difference between the donations of A & B is Rs 259. Donation of A & C is what percent of total income of A, B & C?

32. In a triangle ABC, $\angle B = 72^\circ$, & $\angle C = 44^\circ$. B is extended to D and bisectors of $\angle B$ and $\angle ACD$ intersect at point E. Find $\angle BEC$?

33. Two chords AB & CD intersect at point E. $AE = 12$ cm, $EB = 20.25$ cm and $CE = 3DE$, find CE ?



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34. Two circles having radiuses 5 cm & 7 cm respectively, intersect each other. If the distance between their centers is 10 cm, then find the length of common chord

35. If $(Ax + y + Bz)^2 = 2x^2 + y^2 + 8z^2 - 2\sqrt{2}xy + 4\sqrt{2}yz - 8zx$, then $A^2 + B^2 - AB = ?$

36. If SP is 80% more than C.P & discount offered is 10%. Find CP : MP ?

37. Area of regular hexagonal field is $2400\sqrt{3}$ cm². If rate of cost of fencing is 16.8 Rs/cm, then find the total cost of fencing.



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Questions Asked in the General Awareness Section:

1. Who was the first amputee to reach Mount Everest? - **Arunima Sinha**
2. Alai Darwaja is the main gate of the Quwwat-ul-Islam Mosque in the Qutub Minar complex. **It was made by Allaudin Khilji**
3. Who is the lieutenant governor of Jammu & Kashmir? - **Girish Chandra Murmu**
4. Which of the following is not an ore of Iron? - **Options were Hematite, Fiderite, Magnetite, etc**
5. Which vitamin deficiency leads to fetal anemia? - **Vitamin B12 deficiency**
6. Where is the headquarters of the BCCI? - **Mumbai**
7. In which year the Ghadar Party was formed? - **1913**
8. Which article is related to the National Commission for Backward Classes? - **Article 338B**
9. India won SAFF Championship continuously for how many years? **5 Times**
10. Which of the following is not a fish? - **Starfish**
11. Part 8 of the Indian constitution deals with _____. **The Union Territories**
12. One question related to Elephant reserves of Odisha.- **Options were like Sambalpur**
13. One question related to protest against the Jallianwala bagh massacre.
14. Indus Water Treaty was signed in? **1960**

15. _____ is a homogenous mixture of two or more compositions.- **Solution**
16. Which city of Rajasthan is known as the Golden City? - **Jaisalmer**
17. How many images are formed when one places an object between two plane mirrors kept at 120 degrees? - **2 images**
18. The Quit India movement started from _____. - **Bombay at the Gowalia Tank**
19. What is the helpline number of the railway? - **139**
20. Jaspreet Bumrah got which award? - **Polly Umrigar Award**
21. Which law states that "equal volumes of all gases, at the same temperature and pressure, have the same number of molecules"? - **Avogadro Law**
22. Which of the following is the longest south India river? - **Godavari**
23. In which state, maximum forest area is there? - **Madhya Pradesh**
24. Which is the biggest national park of Himalayan Range? - **Hemis National Park**
25. Which color light is emitted by the Sun? - **White**
26. What was the theme of the Indian Science Congress held in Bengaluru? - **"Science and Technology: Rural Development"**
27. Who was the first ruler of Mahabalipuram? - **Pallava king - Narasimhavarman I**
28. Which state got the best police station award? - **Aberdeen in Andaman**
29. Which is the hardest part of the Human Body? - **Tooth enamel**



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30. Lohit and Dibang are tributaries of which of the following rivers?
Brahmaputra

31. In which of the following years was Amer fort built? **1598**

32. What was the new rate introduced as the Advanced income tax? **30%**

33. Vasco Da Gama came to India in which of the following years and at which place? **1498 at Calicut**

34. Where did the military exercise held between India and Oman take place? Al-Nagah Exercise at Jabel AL Akhdar, Oman

35. What is the rank of India in travel and Tourism Competitiveness Report 2019? - 34th Rank

36. Harbhajan Singh is the brand ambassador of _____. - Online leather accessory brand Brune & Bareskin

37. Who is the chairman of the 15th finance commission? - NK Singh

38. Who was the governor general of during the Great Bengal famine in 1770? - Warren Hasting

39. What is chemical name of Epsom Salt? - Magnesium Sulfate

40. How many Highways meet to form National Highway 44? Seven

41. How many National Parks are there in India? 104.

42. Under which article special provision related to languages is given? - Article 347

43. What can be used in thermometer in place of mercury? -

44. The alcohol thermometer or spirit thermometer is an alternative to the mercury-in-glass thermometer.

45. Which acid is not present in Grapes? - Options like Citric acid, formic acid and acetic acid are given.

46. Which female wrestler has been banned by NADA recently? - Seema

47. Which organization gives the tansen Award? - Government of Madhya Pradesh.

48. In which year, Congress socialist party was formed? 1934

Questions Asked in English Language and Comprehension:

1. Cloze test:- Based on "Drug addiction".

2. Antonym = **Bizarre**
Ans. Ordinary, normal

3. Synonym = **violence**
Ans. Brutality

4. Antonym = **Elude**
Ans. Caught

5. One word = **a lengthy and aggressive speech**
Ans. Harangue

6. Spelling = **reimbursement**

7. Idiom = **Flog the dead horse**
Ans. means a particular effort is a waste of time as there will be no outcome

8. Idiom = **Take the bull by the horn**
Ans. to deal with a difficult situation in a very direct or confident way

9. Error spotting:- He did not (verb's second was given in the sentence.)
Ans. "Did" take the first form of the verb after it.

10. Spelling = **Definition**

11. All the students are allowed to give their _____ views in group discussion.
Options: Candid, aggressive.



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12. Synonym = **Erudite**

Ans. Knowledgeable

13. Synonyms - **Extensive**

Ans. Substantial

14. Antonym - **Dexterity**

Ans. Clumsiness

15. Synonym - **Retain**

Ans. maintain, hold on to

16. Antonym - **Divide**

Ans. Unify

17. Incorrect Spelling - **Chauffeur**

18. Idiom - Bed of roses

Answer- used in reference to a situation or activity that is comfortable or easy.

19. Idiom - **a close-fisted person**

Answer- Ungenerously or pettily reluctant to spend money

20. Sentence improvement - Hardly had he (sit on the chair than) it broke.

Ans. The correct phrase is hardly ----- when. Also, replace "sit" with "sat" as had takes the third form of the verb.

21. Active/passive voice - **They offered me a chair.**

Ans. A chair was offered to me by them.

22. Direct speech - **"What a good idea!", Radhika remarked.**

Answer- Radhika exclaimed that it was a very good idea.

23. Cloze test - on the topic - **An incident where some army men are helping to lift a tree**

24. Spelling = Commemorate

25. Idioms = Hobson's choice

Ans . a choice of taking what is available or nothing at all.

26. Idioms = Add fuel to the fire

Ans. cause a situation or conflict to become more intense.

27. Spelling = Definite

28. Antonym = Hostile

Ans. Amiable

29. Synonym = Catastrophe

Ans. Disaster, crisis, calamity

30. One word = a short story, typically with animals as characters, conveying a moral.

Ans. Fable

31. Cloze test = On corruption

32. Antonym - Sluggish

Ans. Energetic, busy

33. Synonym = Solidarity

Ans. Unity, accord

34. Antonym - Deficiency- Abundance

35. Sentence Improvement = He has a good command (over) English language.

Option: At, in, on, no improvement.

Questions Asked in Reasoning Section:

1. **40,37,43,34,46,?**

Ans: **31 (logic: two alternate series - 3,+6,)**

2. **Select the similar pair (13,65,117)**

(Logic: $13 \times 5 = 65$; $13 \times 9 = 117$)

Ans: **(15,75,135)**

3. **Select the similar pair :**

Council : minister : : ? : sailor

Ans : **Crew**

4. **If a = 1, b = 3, c = 5 and so on in increasing order find code for KNUCKLE?**

Ans. **KNUCKLE = 212741521239**

5. **odd one out:**

A. 13-197

B. 15-257

C. 12- 170

D. 17- 328

Logic: $x - (x+1)^2 + 1$



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6. Arrange in ascending order:
1. Crocodile, 2. Whale, 3. Lizard, 4. butterfly, 5. monkey
Ans. 4, 3, 5, 1, 2

7. Classification:
A. BDF
B. HJL
C. NPR
D. VXW
(Logic: +2,+2....)
Ans. VXW

8. Embedded fig.
 Que. fig.



Ans. fig.

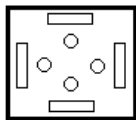


9. Paper cutting & Folding.

Que. fig

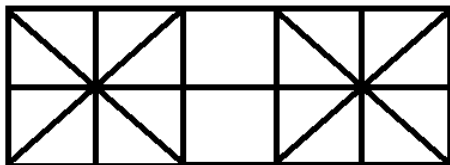


Ans. fig.



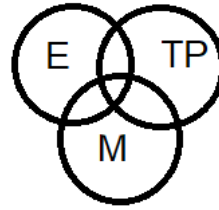
10. Analogy
 $72 : 108 :: 84 : ? :: 102 : 153$
Logic - $12 \times 6 = 72; 12 \times 9 = 108$
Similarly, $17 \times 6 = 102; 17 \times 9 = 153$
 $14 \times 6 = 84; 14 \times 9 = 126$
Ans. 126

11. Counting- find number of triangles?



Ans. 32

12. Logical venn-diagram- Employees, Tax payers, Male.



Ans.

13. Syllogism- Statements : Some paper are copies.
 No copy is eraser.
Conclusions : I. Some copies are paper.
II. Some papers are eraser.
III. No paper is eraser.
Ans. Only I and either II or III is true.

14. Analogy word- Chordata : Monkey :: Non-chordata : ?
Ans. Snake (all other three options are of chordates)

15. Odd one out-
 Measles
 Polio
 Rabies
 Schizophrenia
Ans. Schizophrenia (it's a mental disorder, all other are caused by virus)

16. Odd one out-
 11-143
17-223 (odd one)
 23-667
 19-475
 (Logic: in all others 2nd digit is divisible by 1st).

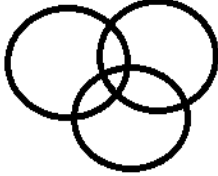
17. Vineet, Tripti and Rajeev have some amount of money. Tripti has 6 Rs more than Vineet and Rajeev has 147 Rs. Sum of Tripti and Rajiv is 206. How much Vineet has?
Ans. $V = T - 6$
 $R = 147$
 $T + R = 206$
 $T = 206 - 147 = 59$
 $V = 59 - 6 = 53.$

18. Number set: (8,7,407)
 Logic- cube of 7 + cube of 8 = $343 + 64 = 407$
Ans. (3,9,738) ---- cube of 9 + cube of 3 = $729 + 9 = 738$



19. Analogy - Criticize : Condemn :: Soldier : ?
Ans. Unity

20. Venn-diagram - Player, cricketer, human being.



Ans.

21. Arrangement- 1. General, 2.colonel, 3.Field marshal,4. captain, 5.brigadier.
Ans. 3,1,5,2,4

22. Odd one out-
Liver
Kidney
Pancreas

Renin (odd one , it is an enzyme)

Questions Asked in Quantitative Aptitude Section:

1. If $x^2 - 2\sqrt{5}x + 1 = 0$, then $x^5 \frac{1}{x^5} = ?$

2. $R = 16\frac{2}{3}\%$, $T = 3$ Years, C.I. = 6350

Rs. What is S.I. on same principal for $5\frac{2}{3}$ Years.

3. $708 \times 6y8z9$ is divisible by 99. Find $x + y + z = ?$

4. If $16x^4 + 36x^2y^2 + 81y^4 = 91$, then $3xy = ?$

5. ABC is a triangle right angled at C. $AC = 5$ & $BC = 12$ Angle bisector of angle A meets BC at D. Find AD.

6. Two chords AB & CD of a circle intersect at point P. If $\angle APC = 95^\circ$ and $\angle AOC = 110^\circ$, then $\angle BOC = ?$

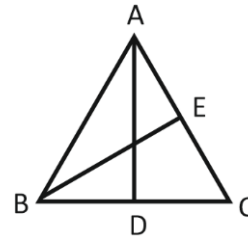
7. Diagonal of a square is $(a + b)$. There is another square whose area is twice the former one. Find the area of second square?

8. Pipe A & Pipe B can fill the tank in 10 hrs & 40 hrs- respectively. There is one outlet pipe, when all the three pipes are opened, the tank filled in 80 more minutes. If A & B are opened for 7 hours & then closed and outlet pipe is opened, then find the time in which tank is emptied?

9. Average of 24 numbers is 56. Average of starting 10 numbers is 71.7, whereas next 11 numbers is 42. 12^{th} , 13^{th} & 14^{th}

..... is in ratio $\frac{1}{2} : \frac{1}{3} : \frac{5}{12}$. Find average of 22^{nd} & 24^{th} numbers

10.



$$CE = \frac{1}{3} AC$$

$$BD = \frac{1}{2} BC$$

$$\frac{AG}{GD} = ?$$

11. Focus numbers 10 16 22 4 32 are given. After adding x they become in same proportion. Find the mean proportion of $(x + 1)$ & $(3x + 1)$?

12. If $20x^2 - 30x + 1 = 0$, then $25x^2 \frac{1}{16x^2} = ?$

13. An article is marked 25% above the cost price. If x% discount is offered. There is a loss of 10%. Find the value of x?

$$14. \frac{\operatorname{cosec}(23-\alpha) - \sec(67+\alpha) + \tan(23+\alpha) - \cot(67-\alpha)}{\tan 23.\cot 23.\tan 45.\tan 67.\cot 67} = ?$$

15. Radius of cylinder is decreased by 10% & height is increased by 20%. Net change in the volume of cylinder is :



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16. ABC is a triangle, right-angled at point B. D & E are points on BC such that $BD = DE = EC$. Find the relationship between AD, AE & AC?

17. $5\sin\theta - 12\cos\theta = 0$, $\frac{1 + \sin\theta + \cos\theta}{1 - \sin\theta + \cos\theta} = ?$

18. $x^4 + y^4 + x^2y^2 = 273$ & $x^2 - xy + y^2 = 13$, then $xy = ?$

19. ABC is a triangle D & E are points on the side AB & AC respectively. $AB = 24$ cm, $AD = 10$ cm, $AE = 12$ cm, $\angle ABC = 58^\circ$ & $\angle DEC = 122^\circ$. Find EC?

20. When a number D is divided by X, remainder will be 15 and when 10 times of D is divided by X, then remainder will be 6. What is the minimum value of x.

21. PQR is a recant of a circle with centre O intersecting of of a circle is extended to point P. $OP = 16.8$ cm, $PQ = 12$ cm & $PR = 19.2$ cm.
Find the radius of the circle.

22. ABC is a triangle. Ratio of angles $\angle A : \angle B : \angle C$ is $4 : 3 : 2$. Which is the smallest angle?

23. If $x - \frac{1}{x} = 11$, then $x^3 - \frac{1}{x^3} = ?$

24. Average height of 5 students is 175cm. If one student is included, average height is increased by 1 cm. What is the height of new student?

25. $\cos 0^\circ \times \cos 30^\circ \times \cos 45^\circ \times \cos 90^\circ = ?$

26. $-1 + \frac{1}{4} \div \frac{1}{2} \times 2 + 5 = ?$

27. 16 men can do a work in 8 days, while 8 men and 9 women can do a same work in 10 days. In how many days 20 women complete the work?

28. Marked Price of a T.V. and printer is Rs. 42,000 & Rs. 8000 respectively. If T.V. is sold at 10% profit & printer is sold at 20% profit, then what is overall profit percentage?

29. C.I. for 43 years & 4 years is Rs. 63,000 & Rs 76620 respectively. Find the rate of interest?



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Questions Asked in the General Awareness Section:

1. Article 368 of the Indian constitution deals with which of the following?
Amendment System

2. Which of the following is the revenue system of Marathas? **Sardeshmukhi**

3. Battle of Chausa was fought between which of the following? **Humayun and Sher Shah Suri**

4. NABARD was established in which of the following rivers? **1982**

5. Which of the following monuments is not present at the Qutub Minar complex?
Buland Darwaza

6. Which of the following is present in Madhya Pradesh? **Bhim Bhetka**

7. Ramanujan Award is related to which of the following? **Mathematics**

8. Which of the following personalities has been conferred with the BCCI LIFETIME ACHIEVEMENT AWARD FOR WOMEN?
Anjum Chopra

9. Which exercise held between Punjab and Jammu and Kashmir? **Anti-Infiltration Grid (By BSF at Pakistan Border)**

10. What is the other name of the food canal? **Oesophagus**

11. What is the ISO number of the environment responsibilities? **ISO 14000**

12. With which of the following countries India signed MOU for AIR? **Bangladesh**

13. Where is Arid Forest Research Institute situated? **Jodhpur**

14. Noorjahan was the wife of _____.

15. She was the twentieth and last wife of the Mughal emperor Jahangir.

16. Who is honoured with 'India's most powerful women in media' award?- **Kalli Purie**

17. Which article states that access to the internet is a fundamental right? - **Article 19**

18. Which organisation releases SDG Index? - **Niti Aayog**

19. The Highest scorer of Women T20 - WC 2020 belongs to which of the following countries? **England (Natalie Sciver - 202 Runs)**

20. Which of the following organisations releases Energy Index?-

21. Jayakwadi Dam is located on which river & in which state? **On Godavari in Maharashtra**

22. Vikram Samvat started in _____. - **57 BC**

23. Which disease is not transmitted from one person to another? - **Cirrhosis**

24. Who won Junior Under 19 wrestling world championships? -**Deepak Punia**

25. What will be the effect of increased inflation? Options-

- a. Increased repo rate
- b. Decreased repo rate
- c. Increased reverse repo rate
- d. Decreased reverse repo rate

26. **Who gave CR Formula?**

27. C Rajagopalachari to solve the political deadlock between the Muslim League and the INC on the independence of British India.

28. Who was the governor of India during the 3rd Angolo-Mysore war? **Lord Cornwallis**

29. What is the atomic mass of germanium? **72.64 mu**

30. Who is awarded as the World Games Athlete of the Year by IFF? **Rani Rampal**



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31. Which chemical is used to remove green colour from Glass? **Manganese dioxide**

32. Which of the following movies was the official entry for India in 92nd Oscars? **Gully Boy**

33. Who is the writer of the book "Dreams of my father"? **Barack Obama**

34. The provision of ancillary powers of the Supreme court are included in which article of the Indian constitution? **Article 140**

35. Which of the following has been awarded as the Best Eating railway station by FSSAI? **Mumbai Central**

36. What is the current forest cover in India? **21.67 Percent**

37. Who laid the foundation stone for the International Cricket stadium and training center at Heartfulness Institute Headquarters in Hyderabad? **Rohit Sharma**

Questions Asked in the English Section:

1. **Antonym** - Fickle
2. **Idiom** - See eye to eye
3. **Synonym** - Cordial
4. **One Word** - pertaining to an individual from birth = Congenital
5. **Spelling (Incorrect)** = omission
6. **Cloze test** - Taj Mahal
7. **Active/Passive** - Could -> Could be
8. **Antonym** - Haste
9. **Synonym** - Disheartened
10. **One Word**- Hustle
11. **Error**- The both boy go to the same school

12. **Improvement** - Noun based - was will be used in place of were

13. **Cloze Test**- Hercules and

14. **Idiom**- By and by

15. **Antonym**- Persist

16. **Synonym**- Ovation

17. **Antonym**- Glee

18. **One Word**- having two opposite feelings at the same time - Ambivalent

19. **One Word** - Group of ships - Fleet

20. **Wrongly spelt** - Seize

21. **Wrongly spelt**- Acquaintance

22. **Idiom** - Chicken hearted

23. **Error** - Everyone except she have(has)

24. **Improvement** - Since it was raining, I searched for the nearer(the nearest) house.

25. **One Word** - tending to attract attention because of their exuberance, confidence, and stylishness - flamboyant

26. **Cloze test** - Pollution and different types of pollution

27. **Active/Passive** - Why do you spend money?

28. **Correct spelling** - Sovereignty

29. **Correct spelling** - Catalogue

30. **Antonym** - Grotesque

31. **Idiom** - dying duck in a thunderstorm

Questions Asked in the Reasoning Section:



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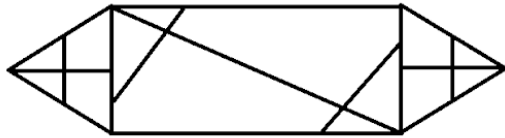
1. **Classification** - Iron , Copper , Brass , Silver
 Ans - Brass

2. **Analogy** -
 Crop : Farmer
 Food -
 Ans- Chef

3. **Number series** - 11 , 12, 36, 41, ?
 ,296
 Ans -
 Logic - (+1,X3,+5,X7,+9)

4. **Counting-**

Triangle = 20



5. **Syllogism** - Statements : All A are B.
 Some A are C.
 Conclusions:I. Some B are C..
 II. No B are A.
 III. No A are C
 IV. Some A are C.
 Ans. Only I and IV follow..

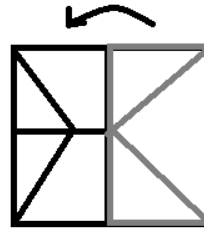
6. **Arrangements of words** -
 1.Million,2.Octillion,3.Quintillion,4.Quadrillion, 5. Trillium
 Ans.
 1.Million - 10^6
 5. Trillium - 10^{12}
 4.Quadrillion- 10^{15} ,
 3.Quintillion- 10^{18} ,
 2.Octillion - 10^{27}

7. **Analogy:** Astronomy : stars ::
 Astronaut :?
 Ans. Space.

8. **North :South :: Happy :?**
 Ans. Unhappy

9. **Paper folding:**

Que. fig.



Ans. fig.



10. **Odd one out-**

- A. Shehnai
 - B. Turai
 - C. Xylophone
 - D. Factophone (odd one)
- Ans. all other are musical instruments.

11. **Odd one out-**

- A. 250 (Odd one)
 - B. 121
 - C. 169
 - D. 196
- Ans. all other are square of a number.

12. **Series - 6, 10, 18, 34,?**

Ans. 66 (logic- +4,+8,+16,+32)

13. **8 : 576 :: 4 : ?**

Ans - 80
 Logic $(8^3 + 8^2) = 576$
 $4^3 + 4^2 = 80$

14. **Venn diagram**

Food, spices, cumin

Questions Asked in the Maths Section:

1. A, B and C can do the work in 24 days, 20 days and 18 days respectively. If B & C work for 6 days. In how many days A along complete the remaining work?

2. What is the difference between the single discount of 8% and 2 successive discounts of each 4% on marked price Rs. 7800?

3. If $(A + B - 2)^2 + (B + C - 5)^2 + (C + A - 5)^2 = 0$, then $\sqrt{(A + C)^B + (B + C)^A} - 1 = ?$

4. If the difference between the 2 profits of 18% and 25% on an article is Rs. 49m, then find cost price?

5. If $a + b + c = 9$, $ab + bc + ca = -22$, then $a^3 + b^3 + c^3 - 3abc = ?$

6. A population of a town was increased by 30% in first year and decreased by 15% in the second year. If the population after 3 years is 1105, find the population in the beginning.

7. $x \sin\theta - y \cos\theta = 1$

$x \cos\theta + y \sin\theta = 4$

Then, $17(x^2 + y^2) = ?$

Q. Area of an equilateral triangle with side a is $36\sqrt{3}$. What is the perimeter of the triangle?

8. If $3^a = 27^b = 81^c$ and $ab = 144$, then

$12\left(\frac{1}{a} + \frac{1}{2b} + \frac{1}{5c}\right) = ?$

9. Two tangents AP and BP touches a circle with centre O at points A and B respectively. If $\angle OAB = 30^\circ$, $\angle APB = ?$

10.

$\frac{\cos 40^\circ}{\sin 50^\circ} + \frac{\operatorname{cosec} 50^\circ}{\sec} - 4 \cos 40^\circ \cdot \sin 50^\circ = ?$

11. An amount of Rs. 11800 has to be distributed among A, B & C, given that $2A = 5B = 7C$. Find the share of A?

12. What is the area of the triangle formed by the midpoints of an equilateral triangle with side 8 cm?

13. How many spheres of radius 5 cm can be formed from the sphere of diameter 40 cm?

14. Average of marks of 30 students is 88. When 2 students with highest marks are removed, average is decreased by 0.5. The difference of marks of 2 students is 2. Find the highest marks.

15. When a person walks with a speed of 4 km/hr reaches the destination in 1.25 hours. What is the speed of the person, if he wants to reach the destination in 25% less time?

16. After allowing a discount of 22%, these is a profit of 11%. If M.P is Rs. 888, find C.P?

17. Two sides of a triangle are 8 and 5 respectively. What is the third possible side of the triangle.

18. $\sin 0^\circ \cdot \sin 30^\circ \cdot \sin 60^\circ \cdot \sin 90^\circ = ?$

19. $\frac{\sin 30^\circ}{\cos 60^\circ} + \frac{\cos 60^\circ}{\sin 30^\circ} - \tan 45^\circ = ?$

20. Diagonals of a rhombus with side with side 10 cm are 16 cm & 12 cm. Find the area of the rhombus?

21. A & B, B & C and A & C can do a piece of work in 9 days, 12 days & 18 days respectively. In how many days A, B & C together can complete the work?

22. An article with marked price Rs. 7200 is sold at profit of 8% by giving 10% discount. What is the profit percent when no discount is offered?

23. Speeds of A & B are 6 km/hr & 8 km/hr respectively. They started from point P & reached the destination at point Q. B starts 15 minutes after A and reach 10 minutes before A at Q. If total distance is 10 km, find the time taken by A?

24. If $(\cos^2\theta - 1)(1 + \tan^2\theta) + 2\tan^2\theta = 1$, then $\theta = ?$



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25. If $a + \frac{1}{a} = 5$, $a^3 + \frac{1}{a^3} = ?$

26. A circle is circumscribed by a quadrilateral ABCD with circle touches all the four sides of the quadrilateral. AB = 17 cm, BC = 14 cm and CD = 15 cm, then DA = ?

27. $\frac{\sin 30^\circ \times \cos 60^\circ}{\sin 60^\circ \times \cos 30^\circ} - \tan 45^\circ = ?$

28. Difference of C.I & S.I on a sum of Rs. 25000 for 2 years is Rs. 160. Find the rate of interest?

29. The number 74185X4 is completely divisible by 4. What is the value of X?

30. In a triangle ABC right angled at B, AB = 8 cm & AC = 17 cm. Length of a line AD meets BC at point D is 10 cm. What is the length of DF?

31. $113 \times 87 = ?$

32. In $(x - 3y)^3$ find the coefficient of x?



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Questions Asked in the General Awareness Section:

1. Which of the following articles deals with the freedom to follow any religion? **Article 25 - 28**

2. Jabalpur city is situated on the banks of which of the following rivers? **Narmada River**

3. Rohtang pass is situated in which of the following states of India? **Himachal Pradesh**

4. Which of the following physical quantities has SI unit Dioptr? **Power of Lens**

5. What is the name given to cell study? **Cytology**

6. What was the name given to the council of ministers by Shivaji? **Ashtapradhan**

7. What does T stand for in ATM? **Teller**

8. Which of the following personalities has been conferred with CK Nayudu award? **K Shrikhanth**

9. Where did the september 1920 Congress session held in India? **Calcutta (Lala Lajpat Rai)**

10. Which of the following is insulator? **Glass**

11. Pravasi Bhartiya Divas is observed on which of the following ? **9 Jan**

12. Who is the brand Ambassador of Visa? **PV Sindhu**

13. Gotabaya Rajapaksha belongs to which of the following countries? Sri Lanka

14. CAG is related to which of the following articles of the Indian constitution? Article 148

15. Battle of Khanwa took place in which year? 1519

16. Third round table conference took place in which year? 1932

17. Which of the following lakes is known as floating island lake? Loktak lake

18. Indian science congress took place in which state? Karnataka (107th) Punjab (106th)

19. Which of the following schedules is wrongly matched? 2-Language

20. Which of the following personalities are known as Andhra Kesari? Tanguturi Prakasam

21. Who won the Spirit of the cricket year award 2019? Virat Kohli

22. Khelo India is organised in which city? Guwahati

23. Who among the following has written The great Indian novel? Shashi Tharoor

24. Which of the following states is not a neighbour of Madhya Pradesh? Orissa

25. Which of the following sites has been dedicated to the nation by Narendra Modi? Victoria Memorial Hall.



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26. Who was the founder of the Swaraj Party? CR Das , Motilal Nehru,1923

27. The Advocate General is appointed by___Governor_____.

28. What is the number of Carbon and hydrogen atoms present in Propane? C3H8

29. Torr is the unit of which of the following? Pressure

30. What is the internal angle of the Benzene? 120 degree.

31. What does 'A' stands for in the scheme UDAN? Ude Desh ka Aam Nagrik

32. National Sports day is celebrated on which date? 29 August

33. Who has been appointed as the governor of Jammu and Kashmir? GC Murmu

34. Ramsar convention is related to_____. international treaty for the conservation and sustainable use of wetlands.

35. Which among the following animals is not accepted as the national animal? Camel

36. Make in India is related to which ministry? Ministry of Finance

Questions Asked in the English Section:

1. Synonym of Weary

Ans :- Tired, Exhausted

2. Synonym of Sacred

Ans :- Holy, Blessed

3. Antonym of Native

Ans :- Imported

4. Antonym of Repulsive

Ans :- Delightful, Pleasant

5. Idiom of Look down upon

Ans :- Someone or something lesser or inferior in some way.

6. Idiom of Keep abreast of

Ans :- To remain closely informed about something or to follow the developments of something or some situation.

7. One word :-A game in which no one win

Ans :- Draw

8. One word :- Things that cannot be satisfied.

Ans :- Unsatisfiable

9. Incorrect spelt :- Across

10. Incorrect spelt :- Guarantee

11. Active / Passive Voice :- Children were singing the national anthem with enthusiasm.

Ans :- The national anthem was being sung by children with enthusiasm.

12. Cloze Test was based on Advertisement.

13. Sentence Improvement :- Scarcely had the passengers boarded



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the train when the captain welcomed them.

Ans :- No improvement.

14. Error :- The famous actor and author are honoured.

Ans :- 'are' should be replaced with 'is'.

15. Incorrect spelling - Forty

16. Incorrect spelling - Correspond

17. Idiom - Cut and Dried

18. Antonym - Malice

19. Synonym - Thrive

20. Antonym - Vile

21. Active / passive :- The teacher is teaching french to the students.

22. Idiom - At large

23. Cloze Test was based on Doll/Toy

24. Direct / Indirect :- The principal had said that he is going to be your teacher.

25. One Word of Nursery

Ans :- A place where young plants and trees are grown for sale or for planting elsewhere.

26. Synonym of Affluent

Ans :- wealthy, rich

27. Antonym - Industrious

28. Incorrect spelling - Exclamation

29. Incorrect spelling - Pursuit

30. Cloze test - How we should choose our subject based on our interest

31. Idiom - To give someone a piece of mind

32. Sentence Improvement - Old lady died of fright.

33. Narration - The soldier said, " Don't take photograph inside the museum"

34. Idiom - Come to point

35. One Word :- Euthanasia

Questions Asked in the Reasoning Section:

1. CREATION can be coded as RCAEITNO then code of SEQUENCE will be?

Ans. ESUQNEEC(LOGIC: first and second letters are interchanged and then third and fourth letters are interchanged to get the code and so on....)

2. Word analogy:

Bacteria: illness

Ans. carelessness : error

3. Number set:

(17, 102,153)

Ans. (16,96,144)

Logic: (17, 17x 6, 17x9 similarly 16, 16x6, 16x 9)

4. Number series -

17 , 19 , 22 , 27 , 34 ,45 , 58 , ?

Ans - 75 (logic - diff is prime number)



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5. Analogy - 6 : 16 :: 20 : ? :: 11 : 81

Ans - 324 (logic = $6 - 2 = 4^2 = 16$)

6. Analogy

Enjoyment : Pleasure :: Moisture : ?

7. Classification

A. SVY

B. FIK

C. KNQ

D. ADG

Ans - **FIK**

Logic - Difference between place value is 2 except in op B .

8. Classification

A. $4/5 = 3$

B. $16/20 = 6$

C. $51/30 = 9$

D. $25/41 = 8$

Ans - $25/41 = 8$

9. Classification

A. Kilometer

B. Minute

C. Second

D. Distance

Ans - Distance

10. Mirror image OF

654HBMA/

11. Logical ven diagram

(Accountant, internet users , girls)

12. Analogy

11 : 256 :: 20 : ?

Ans - 841

Logic - $11^2 + 12^2 = 256$

13. What was the day on 31 jan 2007?

Ans - Wednesday

14. Number Series - 35 , 36 , 40 , ? , 65

Ans - 49

15. Analogy

Horse: Neigh

Camel: ?

Ans - grunt

Questions Asked in the Maths Section:

1. The value of $151^2 - 149^2$ is:

2. If $A = (3/5)B$ and $B = (2/3)C$ then find $A : B : C$?

3. If length, breadth and height of a room is 6 m, 4m, and 8 m respectively. Then find the area of all four walls of the room.

4. If a student scores 31% in an examination, he remains 16 marks short from the passing marks. And If he scores 40% marks, he scores 56 marks more than the passing marks. Then find the passing marks in the examination.

5. If the average of 5 consecutive odd no. is "n". If next 3 consecutive odd numbers are also added. Then find the increased average of all numbers.

6. If A and B start from the same place at 8:30 P.M. and 9:00 P.M. respectively. If the speed of A is 40 kmph and the speed of B is 50 kmph. How much distance will they travel before meeting each other?

7. If 10 men and 12 women can complete a piece of work in 10 days then find in how many days 6 women and 5 men will complete the same amount of work?

8. In an isosceles triangle ABC, AB and AC are equal sides. $BC = 6$ cm and length of the perpendicular drawn



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from vertex A to BC is 4 cm. Then find side AB.

9. Find the value of $((1 - 2 \sin^2\theta \cdot \cos^2\theta)/(\sin^4\theta + \cos^4\theta)) - 1$.

10. Find the value of $\sin 30^\circ + \cos 30^\circ - \tan 45^\circ$.

11. If an amount of Rs. 50,000 yields a simple interest of Rs. 4,000 in 2 years time. Then find the compound interest for the same time and same rate of interest.

12. Find the coefficient of y in expression $(2y - 5)^3$.

13. Find the value of p in the the given expression: $(1 - 4x)^3 = 1 - 12x + px^2 - 64x^3$

14. In a cyclic quadrilateral ABCD. Angle A = 110° then find the value of angle C.

In a triangle PQR, Angle P = θ and PR = 13 cm, PQ = 12 cm then find the value of $\cos\theta$.

15. A spends 68% of his total income. If his expenditure increases by 20% and savings also increase by $9\frac{3}{8}\%$ then find the change in expenditure?

16. If an amount doubles itself in 13 years at Simple interest. Find rate of interest?

17. If the length of sides of triangle ABC are 20cm, 12cm and 15 cm respectively. And a triangle DEF is made inside ABC by joining the mid-points of sides of triangle ABC. Then find the semi perimeter of triangle DEF.

18. If $a^3 + b^3 + c^3 = 50$ and $ab + bc + ca = 110$ then find $a+b+c$.

19. If the area and perimeter of a rectangle are 150 cm^2 and 50 cm respectively. Then find the smaller side of the rectangle.

20. If the radius of a circle is reduced by 11%. Find the percentage reduction in area?

21. The diameter AB of a circle is extended upto an exterior point Q and a tangent is drawn from Q to a point C on the circle. If angle CAQ = 42° then find angle AQC.

22. Total sold price of two articles is 800. If one of them is sold at 18% profit and other one is sold at 22% loss. If there is no profit and no loss on the whole purchase then find the cost price of articles.

23. Find the expansion of $(x/3 + y/5)^3$.

24. A train leaves a station at 11:00 AM with a speed of 110 km/hr and another train follows the first one at 11:30 AM with a speed of 140 km/hr. Find the distance travelled by the trains till the second one crosses the first one.

25. If $a^4 + 1/a^4 = 50$ then find $a^3 + 1/a^3$.

26. The speed of the current is 3 kmph. A boat takes 60 min. to cover 12 km upstream and downstream. Then find the speed of the boat in still water.

27. If the radius of a circle is 14 cm. Then find the area and the circumference of the circle.



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28. If in a triangle ABC, the sides are of length 3 cm, 4 cm, and 5 cm. Find the area of the triangle ABC.

29. In an isosceles triangle PQR, the length of equal sides is 15 cm. And the angle between these two sides is 90° . Then find the area of the triangle PQR.

30. Two equal amounts of money are lent at simple interest for interest rate 5% and 7% respectively for time period 3 years and 5 years respectively. The difference between their S.I. is Rs. 475. Then find the amount of money.

31. A and B can complete a work in 3 and 6 days respectively. With the help of C they all can complete the same work in 3 days. Find in how many days C can complete the whole work alone.

32. A man sells a gift of worth Rs.30 to two different customers. He sells the article to one customer at 18% profit and to another at 18% loss. Find his overall profit/loss in this whole transaction.

33. A circle is inscribed in a triangle such that it touches all its sides. If the sides of Triangle

34. If there are 90 students in a class. Out of which 35 are boys. Then find the ratio between the numbers of Girls and Boys.

35. If an article is marked up by 40% on its Cost Price. The shopkeeper offers a discount of 40% on the marked price. Then find his profit/loss on this business transaction.



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Questions Asked in the General Awareness Section:

1. What is the meaning of Mandamus?
2. Citric acid is found in which of the following?
3. Who wrote Ain-i-Akbari? **Abul Fazal**
4. In which year Portuguese invaded Goa? **1510**
5. Who made the logo of Lokpal? **Prashant Misha (Allahabad)**
6. Which organelle is known as the powerhouse of the cell? **Mitochondria**
7. In which year was the first round table conference held? **1930**
8. Which organelle is known as the powerhouse of the cell? **Mitochondria**
9. Which of the following actors got the first Oscar award? **Emil Jannings**
10. Which country banned by Anti Doping Agency for 4 Years? **Russia**
11. Which river originates from Nilgiri Mountain? **Siruvani River**
12. What kind of wood is a Stradivarius violin made of? **Spruce & Maple**
13. Who among the following has written The great Indian novel? **Shashi Tharoor**
14. Which of the following states is not a neighbor of Madhya Pradesh? **Orissa**
15. Which of the following sites has been dedicated to the nation by Narendra Modi? **Victoria Memorial Hall**
16. Who was the founder of the Swaraj Party? **CR Das, Motilal Nehru, 1923**
17. The Advocate General is appointed by ___ Governor _____.

18. What is the number of Carbon and hydrogen atoms present in Propane? **C3H8**
19. Torr s the unit of which of the following? **Pressure**
20. What is the internal angle of the Benzene? **120 degree**
21. What does 'A' stand for in the scheme UDAN? **Ude Desh ka Aam Nagrik**
22. National Sports day is celebrated on which date? **29 August**
23. Who has been appointed as the governor of Jammu and Kashmir? **GC Murmu**
24. Ramsar Convention is related to _____. **International treaty for the conservation and sustainable use of wetlands**
25. Which among the following animals is not accepted as the national animal? **Camel**
26. Make in India is related to which ministry? **Ministry of Finance**
27. Who is CJI of India? -Justice Sharad Arvind Bobde
28. Mission Indradhanush Scheme is Related to.....? -
29. First FIFA world cup was hosted by which country? - Uruguay
30. First wimbledon was held in which year?
31. Which state has maximum seats in Rajya Sabha? - Uttar Pradesh (31 Seats)
32. China opened world's first automated high speed rail line from Beijing North-.....HSR Line? -Zhangjiakou



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33. Administration of Scheduled Areas and Tribal Areas is related to which article in the constitution? - Article 244(1)

34. Bank of Baroda, Dena Bank & Vijaya Bank merger took place on which date?- 1 April,2019

35. Which state got Haldi GI Tag? -Odisha On Foundation Day, Odisha receives GI tag for 'Kandhamal Haldi' 'Kandhamal Haldi', a variety of turmeric indigenous to southern Odisha

Questions Asked in the English Language & Comprehension Section:

1. Idiom:- Killing two birds with a single stone

2. Cloze Test:- Bad effect of construction on the environment

3. Antonym = Persuade

4. Spelling(incorrect) = Journey

5. Spelling (incorrect) = Portrait

6. Narration = Son said to his mom, "Can I go to play now?" **Ans.** Son asked his mom if he could go to play then.

7. Idiom = Make of (Part of a sentence) E.g. I want to make something of my new life here.

8. Synonym = Eradicate **Ans.** destroy completely; put an end to.

9. Synonym = Solemn **Ans.** formal and dignified.

10. One word = One who plays the leading character or one of the major characters in a play, film, novel, etc. = Protagonist

11. Cloze Test was based on Education.

12. Synonym= Exceed **Ans.** outshine, surpass

13. Synonym = Abort **Ans.** terminate, end

14. Idiom = Blind alley **Ans.** A dead-end; a position without hope of progress or success.

15. Antonym = Emerged **Ans.** disappear

16. Antonym = Mellow

17. Idiom = Acid test **Ans.** a conclusive test of the success or value of something.

18. One word = more than what is needed or use **Ans.** surplus

19. Active / Passive = The commander commanded the soldier to move. **Ans.** The soldiers were commanded to move by the commander.

20. Incorrect spelling = Guidance

21. Idiom = Barking up the wrong tree - **Ans.** trying to do something in a way that will not work

22. Antonym = Inclement

23. Synonym = Relief

24. Cloze test = a visit to a restaurant

25. Narration = Mother said to her child, "Go to market."

26. One word = a storehouse for threshed

27. grain = Granary

28. Synonym = Extol

Questions Asked in the Reasoning Section:

1. Audition: selection :: examination:? **Ans.** pass

2. Venn diagram:
Table, wooden material, chair



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3. Number series: find the wrong digit
2,6,14,30,62,126,250 Ans. 250 (logic:
 $2 \times 2 + 2 = 6$, $6 \times 2 + 2 = 14$ $126 \times 2 + 2 = 254$
not 250)

4. Word analogy:
Ethiopia: Africa:: Brazil: ? Ans. South
America

5. Logic: Ethiopia is a country in the Africa
continent similarly, Brazil is in the South
American continent.

6. Classification:
Distance
Volume
Weight
Gallon
Ans. gallon is the odd one out as gallon
is a unit of measurement for volume.

7. Number analogy:
56:30:: 78:? Ans. 56

8. Logic: $5 \times 6 = 30$ similarly $7 \times 8 = 56$

9. Venn diagram:
Mothers, lady police, Men

10. Word analogy:
Prayer:Temple:: matins:? Ans. church (
matins are morning prayers of church).

11. Classification:
AZ
GT
LO
KN
They started the work together A left
after 4 days. In how many days B
completes the remaining work?

4. If $3a = 5b = 12c$, then $a : b : c = ?$

5. ABC is a right angle triangle, right
angled at point B. $AB = 5$ cm, $AC = 13$ cm
& $\angle C = \theta^\circ$. Find $\cos\theta$?

6. AB is a tangent of a circle with centre
O and radius OD touching circle at point
D. DO is extended to meet the circle at
point E. $\angle AOE = 110^\circ$. Find $\angle OAD = ?$

Ans. KN (others number are reverse
alphabet pair)

12. Analogy
Upbringing: family :: Education: ?
Ans. school

13. Classification: Find odd one out
Europe, Africa, Russia, Asia
Ans. except Russia all are continents

14. Number set:
(14,17,961)
Ans. (15,17,1024)
Logic: $14 + 17 = 31^2 = 961$
Similarly, $15 + 17 = 32^2 = 1024$

15. What was the day on 8th February
2008?
Ans. Friday

16. Venn diagram:
Spoon,Utensil,Steel

Questions Asked in the Quantitative Aptitude Section:

1. ABCD is a square with side 24 cm. E is
a point on side AB. What is the area of the
triangle ECD?

2. If $6 \tan\theta - 5\sqrt{3} \sec\theta + 12 \cot\theta = 0$,
then $\operatorname{cosec}\theta + \sec\theta = ?$

3. A can do a piece of work in $6\frac{2}{3}$ days &
B can do a similar work in 15 days.

7. ABC is an isosceles triangle with $AB =$
 AC . If $\angle A = 80^\circ$, then $\angle B = ?$

8. Angle of elevation of a kite from a point
on the ground is 60° . If the length of the
string is 16 m, then find the height at
which kite is flying from the ground?

9. A, B & C can do a piece of work in 16,
32 & 24 days. A & C work together for 6
days. In how many days C alone can do
the work?

10. Two chords PQ & ST of a circle are
extended to meet at point R. $PR = 14.4$



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cm, QR = 11.2 cm & TR = 12.8 cm, find ST?

Q. If $5\cot x = 3$, then $\frac{5\sin x - 3\cos x}{7\sin x + 3\cos x} = ?$

11. Ratio of volumes of two spheres is 125 : 64. The sum of the radiuses is 36. What is the surface area of first sphere?

12. CP of two articles is Rs. 300. If one is sold at 10% profit & second is sold at 20% loss, find the CP of first article?

13. In a distance of 90 km, a person travels some distance on cycle with 5 km/hr and rest of the distance by car with 10 km/hr. If he takes total time of 9 hours, then find the distance travelled on cycle?

14. Average of weight of 30 students of a class is 69 kg. Weight of one student is wrongly written as 88 instead of 58. Find the original average of all students.

15. Radius OT of a circle with centre O is 5 cm. Distance of point P, outside the circle from the centre is 13 cm. What is the length of TP?

16. If $P + Q = 7$ cm, $PQ = 5$ cm, find $P^3 + Q^3$?

17. ABC is an isosceles triangle with $AB = AC$, $\angle B = 72^\circ$, find $\angle A$?

18. $\cos 10^\circ \cdot \cos 30^\circ \cdot \cos 45^\circ \cdot \cos 90^\circ = ?$

19. $515 \times 485 = ?$

20. $(\operatorname{cosec} 60^\circ - \tan 45^\circ) (\tan 30^\circ \cdot \tan 60^\circ) = ?$

21. 8 men can do a work in 20 days. After 5 days how many extra men can be employed to finish the remaining work with in 8 more days?



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