## EVERYDAY SCIENCE

1. A piece of ice is dropped in a vessel containing kerosene. when the ice melts, the level of kerosene will...
a) Rise
b) remain the same
c) fall
d) none
2. World's smallest satellite designed by
a) Rifath Farooq
b) Singh bhati
c) APJ
d) Annadurai
3. Which among the following is not present in pure sugar?
a) Nitrogen
b) Hydrogen
c) Phosphorus
d) Oxygen
4. Which among the following is Quick Silver?
a) Mercury b) Aluminium
c) Lead
d) Zinc
5. Which of the following are respiratory roots?
a) Pneumatophoresb) Buttress roots
c) Prop Roots
d) Tap Root
6. Potato is a modified form (out growth) of
a) Root
b) Stem
c) Fruit
d) Leaf
7. A spice obtained from style and stigma of a plant is
a) Saffron
b) Turmeric
c) Coriander
d) Clove
8. The milky water of coconut is
a) Liquid endosperm
b) Solid Endosperm
c) Embryo
d) All
9. Most highly intelligent mammals are
a) Whales
b) Dolphins
c) Elephants
d) Kangaroos
10. Which of the following is the main nitrogenous waste in humans?
a) Ammonia
b) Urea
c) Uric acid
d) Ammonium nitrate

## GENERAL STUDIES

11. What is the objective of the 'Jan Aushadhi Bal Mitra programme'?
a) Educate Children on PMBJP
b) Provide subsidised medicines to children
c) Provide subsidised medicines to pregnant women
d) Promote Investment in PMBJP
12. Which Union Ministry has constituted 'Swadesh Darshan Awards'?
a) Ministry of External Affairs
b) Ministry of Tourism
c) Ministry of Culture
d) Ministry of Housing and Urban Affairs
13. As per a recent report, what is the contribution of YouTube creator system to Indian GDP in 2020 ?
a) Rs 1700 Crores
b) Rs 3400 Crores
c) Rs 6800 Crores
d) Rs 8500 Crores
14. Name a game that is associated with China Cup?
a) Kabaadi
b) Cricket
c) Gymnastics
d) Hockey
15. Name the state that has the longest coastline in India?
a) Andhra Pradesh
b) Arunachal Pradesh
c) Bihar
d) Gujarat
16. When did the RTI Act come into force in India?
a) January 12, 2005
b) March 12, 2005
c) April 12, 2005
d) October 12, 2005
17. ___ was the first mission to be operationalized under the National Action Plan on Climate Change (NAPCC)
a) Solar Cities Programme (SCP)
b) National Solar Mission (NSM)
c) Solar Green Building (SGB)
d) Development of Solar Cities (DSC)
18. PM Gatishakti is a transformative approach for economic Growth and Sustainable Development which focuses on
a) Educational Development
b) Multimodal Connectivity
c) Empowerment of SHGs
d) Environmental Development
19. Which is the international coalition of solar resource rich countries that are collectively addressing common challenges on solar energy applications?
a) International Solar Energy Society (ISES)
b) International Solar Alliance (ISA)
c) International Renewable Energy Agency (IRENA)
d) International Energy Agency (IEA)
20. Which one of the following Indicator is not used to calculate Human Development Index (HDI)?
a) Life Expectancy
b) CPI
c) Education Index
d) Per Capital Income

## CURRENT AFFAIRS

21. Economic Cooperation and Trade Agreement (ECTA) between India and which country is set to enter into force from December 2022?
[A] UAE
[B] Australia
[C] France
[D] Sri Lanka
22. When is the 'Day of Remembrance for all Victims of Chemical Warfare' observed?
[A] November 5
[B] November 10
[C] November 15
[D] November 30
23. Which institution released a report titled 'Carbon Capture, Utilisation, and Storage Policy Framework'?
[A] ISRO
[B] DRDO
[C] NITI Aayog
[D] Ministry of Environment, Forest and Climate Change
24. Paubrasilia echinata is the national tree species of which country?
[A] Argentina
[B] Japan
[C] Brazil
[D] Egypt
25. Which country launched its latest nuclear stealth bomber named ' $\mathrm{B}-21$ '?
[A] Israel
[B] Russia
[C] USA
[D] Ukraine
26. Which company won the bid for the renovation of Dharavi, the second-largest slum colony in Asia?
[A] Adani Properties
[B] DLF
[C] Tata Construction
[D] Shree Naman Developers
27. India supported the proposal of which country to include digitization in International Maritime

Organization＇s（IMO）Strategic Plan？
［A］USA
［B］Russia
［C］UAE
［D］South Africa

28 Which country has added key anti－Pakistani militant group and its al－Qaida branch to its list of＇global terrorists＇？
［A］India
［B］USA
［C］Russia
［D］Australia

29．Which Indian city is placed at 22 nd rank in the＇Prime Global Cities Index Q3 2022＇？
［A］New Delhi
［B］Mumbai
［C］Chennai
［D］Kolkata

30．＇Plastic waste management programme＇is an initiative of which global institution？
［A］UNICEF
［B］UNDP
［C］WEF
［D］World Bank

## QUANTITATIVE APTITUDE

31．If the average of three consecutive even numbers is 34 ，find the largest of these numbers？
a） 30
b） 32
c） 34
d） 36

32．A pipe can fill a tank in 6 hours and another pipe can empty the tank in 12 hours．If both the pipes are opened at the same time，the tank can be filled in Hours？
a） 10
b） 12
c） 14
d） 16

33．A shopkeeper sold an article for Rs．2500．If the cost price of the article is Rs．2000，find the profit percent？
a） 23
b） 25
c） 27
d） 29

34．Four years ago a man was 6 times as old as his son．After 16 years he will be twice as old as his son． What is the present age of man and his son？
a） 60,14
b） 33,7
c） 35,5
d） 36,6

35．A train moving at speed of $90 \mathrm{~km} / \mathrm{hr}$ crosses a pole in 7 seconds．Find the length of the train？
a） 150 m
b） 165 m
c） 170 m
d） 175 m

## TEST OF REASONING

36．Look at this series：XXIV，XX，＿，XII，VIII，．．．What number should fill the blank？
（a）XXII
（b）XIII
（c）XVI
（d）IV

37．Which word does NOT belong with the others？
（a）Triangle
（b）Circle
（c）Oval
（d）Sphere

38．Choose the pair that best represents a similar relationship to the one expressed in the original pair of words．JAUNDICE ：LIVER
（a）rash ：skin
（b）dialysis ：kidney
（c）valentine ：heart
（d）imagination ：brain

39．Find the word that names a necessary part of the underlined word ．monopoly
（a）Corrupt
（b）Exclusive
＂（c）Rich
（d）Gigantic

40．Elated is to despondent as enlightened is to．．．．．
（a）Aware
（b）Ignorant
（c）Miserable
（d）Tolerant

தமிழ்
41．அடைப்புக்குள் உள்ள சொல்லலத் தகுந்த இடத்தில் சேர்க்க．（குரல்）
அ．கவலைக்கு－－－－（கொடு）ஆ．பசித்தவனுக்கு－－－－（கொடு）இ．உரிமைக்கு－－－－（கொடு）ஈ．கவிதைக்கு－－－－（கொடு）
42．பா－இரு பொருள் தருக．
அ．பாடல்－பண் ஆ．பாசம்－பழம இ．பாழ்－பால் ஈ．பழுது－பரி
43．குறில்－நநடில் மாற்றம் பொருள் வேறுபாடு
செய் சேய் அ．பகுதி－பாதி ஆசெயல்－குழந்தை இ．செயல－சேறு ஈ．சேறு－குழந்தை
44．கீழ்க்கண்ட கூற்றுகள் சரியா？துவறா？
கூற்று ： 1 தமிழ் அதன் தன்மையில் தனித்து இயங்கும் பண்பு கொண்டது．
கூற்று ： 2 தமழில் பல சொற்கள் ஒரு பொருளை குறிக்க பயன்பாட்டில் உள்ளதால்
அ．கூற்று இரண்டும் சரி ஆ．கூற்று 2 மட்டும் சரி இ．கூற்று 1 மட்டும் சரி ஈ．கூற்று இரண்டும் தவறு
45．பாகற்காய்－பிரித்து எழுதுக．
அ．பாகு」 அற்காய் ஆ．பாகற்ஃ காய் இ．பாகு」 அல்ஃ காய் ஈ．பாகு」 கல்っ காய்
46．பொருந்தாச் சொல்லைக் கண்டறக． அ．மணத்தக்காளி－வாய்ப்புண் ஆ．முசுமுுு்கை－இருமல் இ．அகத்திக்கீளை－கண்நோய் ஈ．வேப்பங்கொழுந்து－மார்புச்சளி
47．மரப்ப்பழ இல்லாத தொடர் எது？ அ．தென்னை ஓலையும் வேப்ப ஓலையும் கொண்டு வந்தான்
ஆ．தென்னை இலையும் வேப்பந்தழையும் கொண்டு வந்தான்
இ．தென்ளங்கீற்றும் வேப்ப ஓலையும் கொண்டு வந்தான்
ஈ．தென்னங்கீற்றும் வேப்பந்தழையும் கொண்டு வந்தான்．
48．ஆங்கிலச் சொல்லுக்கு இணையான தமிழ்ச்சொல்லைத் தேர்வு செய்க．
＂ஐனெயைด ளூரஉஉநளளழைด யுஉவ＂
அ．இந்தியச் சான்றுச் சட்டம்
ஆ．இந்திய உரிமைச் சட்டம்
ஈ．இந்திய அரசியல் அமைப்புச் சட்டம்
49．ஒரு பொருள் தரும் பல சொற்கள்＇அரி＇என்பதன் தவறான பொருளளத் தேர்ந்தெடுக்க． அ．திருமால் ஆ．அரிதல் இ．சிங்கம் ஈ．அலிவு
50．＂கல்＂என்னும் வேர்ச்சசால்லின் பதம் அறிக？
அ．கற்றல்
ஆ．கற்பனை
இ．கண்டான்
ஈ．கல்லை

| EVERYDAY SCIENCE | 1. A | 2.A | 3. A | 4.A | 5.A | 6.B | 7.A | 8.A | 9.B | 10.B |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| GENERAL STUDIES | 11.A | 12.B | 13.C | 14.C | 15.D | 16.D | $17 . \mathrm{B}$ | 18.B | 19.B | $20 . B$ |
| CURRENT AFFAIRS | 21.B | 22.D | 23.C | 24.C | 25.C | 26.A | 27.C | 28.B | 29.B | $30 . B$ |
| QUANTITATIVE AP | TUD |  | 31.D | 32.B | 33.B | 34 A | 35.D |  |  |  |

31. $D$ The consecutive three numbers are $x-2$, $x \& x+2$. If the average is $34,[(x-2)+x+(x+2)] / 3=34$. Therefore $3 x / 3=34$.(i.e) $x=34$. Hence the largest number $x+2=36$
32. B Filling pipe work done per hour $=1 / 6 \quad$ Emptying pipe work done per hour $=1 / 12(-)$ Total work done $=1 / 6-1 / 12=1 / 12(+) \quad$ Tank will be filled in 12 hours
33. B Selling Price $(\mathrm{SP})=$ Rs. 2500/- $\quad$ Cost Price $(\mathrm{CP})=$ Rs. 2000/- $\quad$ Profit $(\mathrm{P})=\mathrm{SP}-\mathrm{CP}=$ Rs. $500 /-$ Profit $\%=$ P/CP X $100=500 / 2000$ X $100=25 \%$
34. A Let the son current age be $x$. Given, $6(x-4)=2(x+16) \quad 6 x-24=2 x+32$ Then, $4 x=56$ implies $x=14 \quad$ So, Son age is 14 , Father's age is 60
35. D Train speed $=90 \mathrm{kmph}=90 \mathrm{X} 5 / 18 \mathrm{mps}=5 \mathrm{X} 5=25 \mathrm{mps} \quad$ Crossed the Pole in 7 seconds. Length of the train $=$ Speed X time $=7 \mathrm{X} 25 \mathrm{~m}=175 \mathrm{~m}$

TEST OF REASONING : $\quad$ 36.C $\quad$ 37.A $\quad$ 38.A $\quad$ 39.B $\quad$ 40.B
36 C XVI:This is a simple subtraction series; eachnumber is 4 less than the previous number.
37. A Triangle:A circle, oval, and sphere are all circular shapeswith no angles. A triangle is a different kind of shape with angles and three straight sides.
38. A rash : skin:Jaundice is an indication of a liver problem;rash is an indication of a skin problem
39. B exclusive:The essential part of a monopoly is that itinvolves exclusive ownership or control.
40. B ignorant: Elated is the opposite of despondent; enlightenedis the opposite of ignorant.


# VIVEKANANDA COLLEGE, TIRUVEDAKAM WEST GENERAL KNOWLEDGE <br> EVERYDAY SCIENCE 

1. What is the SI unit of radioactivity?
(a) Becquerel
(b) Candela
(c) Curie
(d) Henry
2. The colour of light that travels through glass with maximum speed is
(a) Violet
(b) Blue
(c) Red
(d) Green
3. The state having the highest area under fruits.
(a) Andhra Pradesh
(b) Tamil Nadu
(c) Maharashtra
(d) Karnataka
4. The "Green planet" of solar system is
(a) Saturn
(b) Uranus
(c) Mars
(d) Neptune
5. Central Rise Research Institute is located in which of the following states?
(a) New Delhi
(b) Punjab
(c) Odisha
(d) Tamil Nadu
6. Deficiency of which vitamin causes lowering of red blood cells.
(a) Vitamin-A
(b) Vitamin-C
(c) Vitamin-E
(d) Vitamin- $\mathrm{B}_{12}$
7. The nucleobase not found in DNA is
(a) thymine
(b) uracil
(c) guanine
(d) adenine
8. Carbonic anhydrase is an example of
(a) Hydrolysis enzyme
(b) Redox enzyme
(c) $\mathrm{O}_{2}$ transport protein
(d) Heme protein
9. The most basic amino acid among the following is
(a) tyrosine
(b) methionine
(c) arginine
(d) glutamine
10. The amount of water retained by soil after drainage is known as
(a) soil water
(b) field capacity
(c) mineral water
(d) gravitational capacity

## GENERAL STUDIES

11. Jaundice affected which part of the human body
A) Liver
B) Kidney
C) Heart
D) Lungs
12. Louis Braille is known for the invention of
A) Printing press
B) Power loom
C) Photography
D) Printing for the blind
13. A person with stones in the kidney is advised to avoid?
A) Vinegar
B) Lemon
C) Tomato
D) Lentils
14. Which among the following is poorest source of Fat?
A) Curd
B) Fish
C) Egg
D) Milk
15. Red list of threatened species is released by
A) WWF
B) UNESCO
C) IUCN
D) CITES
16. Which state has the lowest area under forest?
A) Gujarat
B) Uttar Pradesh
C) Andhra Pradesh
D) Haryana
17. Which of the following bank is primarily focused on the development of the MSME (Micro, Small and Medium Enterprises) sector?
A) Reserve Bank of India
B) National Bank for Agriculture and Rural Development
C) State Bank of India
D) Small Industries Development Bank of India
18. Which of the following is NOT a public sector insurance company?
A) United India Insurance Company
B) The New India Assurance Company Limited
C) SBI Life Insurance
D) General Insurance Corporation of India
19. Which of the following is not a type of computer code?
A) EDIC
B) ASCII
C) $B C D$
D) EBCDIC
20. Which of the accompanying social characteristic is created by tournaments among the members:
A) Tolerance
B) Sympathy
C) Cooperation
D) All of the above

## CURRENT AFFAIRS

21. Which month has been observed as the 'Adoption Awareness Month' by Central Adoption Resource Authority (CARA)?
[A] November
[B] December
[C] January
[D] February
22. ParakramDiwas is celebrated at Longewala War Memorial, situated in which state?
[A] Rajasthan
[B] Punjab
[C] Gujarat
[D] Maharashtra
23. Which cyclone recently formed over Bay of Bengal, crossing the coasts of southern states
[A] Asani
[B] Mandous
[C] Sitrang
[D] Mocha
24. Sukhvinder Singh Sukhu was sworn in as the Chief Minister of which state?
[A] Goa
[B] Gujarat
[C] Himachal Pradesh
[D] Uttarakhand
25. The Indian Air Force (IAF) is set to conduct its annual air exercise in which region of the country?
[A] Southern region
[B] North-West region
[C] Eastern region
[D] Northern reg
26. Tourism Minister recent dedicated four projects under Swadesh Darshan scheme from which state/UT?
[A] Goa
[B] Puducherry
[C] Kerala
[D] Telangana
27. India received Rafale aircraft from which country?
[A] France
[B] Australia
[C] Germany
[D] Israel
28. When is the 'National Mathematics Day' observed every year?
[A] 18 December
[B] 22 December
[C] 25 December
[D] 27 December
29. Which Ministry is associated with 'One Rank One Pension (OROP)' scheme?
[A] Ministry of Home Affairs [B] Ministry of Defence [C] Ministry of Finance [D] Ministry of Corporate Aff
30. Which country is the FIFA World Cup champion in the year 2022?
[A] France
[B] Argentina
[C] England
[D] Morocco

## QUANTITATIVE APTITUDE

31. Four years ago, the average age of A and B was 20 years. If today average age of $A, B$ and $C$ is 25 years, what will be age of C after 7 years?
a) 32 years
b) 34 years
c) 36 years
d) 38 years
32. If $\left(2^{\mathrm{p}}+1\right)$ is a prime number, which one of the following digits could be the value of p ?
a) 3
b) 4
c) 5
d) 6
33. If two spheres have their radii in the ratio $2: 3$, the ratio of their volumes is
a) $8: 27$
b) $4: 9$
c) $6: 12$
d) $1: 15$
34. An aeroplane covers a certain distance at a speed of 240 kmph in 5 hours. To cover the same distance in $12 / 3$ hours, it must travel at a speed of:
a) 300 kmph
b) 360 kmph
c) 600 kmph
d) 720 kmph
35. In an election, 2 candidates participate in which the winner gets $60 \%$ of the total votes, and he wins the election by 2000 votes. Find the total number of votes in the election.
a) 3200
b) 6400
c) 10000
d) 13250

## TEST OF REASONING

36. Joke: Laughter
A. Story: Mystery
B. Horror: Fear
C. Eyes: Tears
D. Actor: Acting
37. In a certain code, ARMY is written as ASOB. How is JUDGE written in that code?
A. KVEHF
B. JVFJI
C. ITCFD
D. JWGKJ
38. Which word does not belong to others?
A. Whale
B. Snake
C. Duck
D. Tortoise
39. Find the next two numbers in the series, 52, 50, 48, 44, 42, 40, 36_,
A. 33, 31
B. 34,32
C. 34,30
D. 32,30
40. Which word does NOT belong with the others?
A. Wing
B. Fin
C. Beak
D. Rudder

## தமிய்

41. 2022ஆம் ஆண்டிற்கான சாகித்திய அகாதமி விருது பெற்ற நூல் எது?

அ)தமிழின்பம் ஆமாதொருபாகன் இ)இயந்திரம் ஈ)காலாபாணி
42. திருக்குறளில் உள்ள பால் எத்தனை?
அபத்து
ஆ)ஏழு
இ)மூன்று
ஈ) ஒன்பது
43. கோவலன் கொலைக்களப்பட்ட செய்தி கூறும் நூல் எது?

அ)சீவக சிந்தாமணி ஆ)பெருங்கதை இ)நீலகேசி ஈ)சிலம்பு
44. நெடுந்தொகை என அழைக்கப்படும் நூல் எது)

அ)அகநானூறு ஆ)புறநானூறு இ)கலித்தொகை ஈ)நற்றிணை
45. அந்தாதி இலக்கியத்தைத் தோற்றுவித்தவர் யார்?

அகாரைக்கால் அம்மையார் ஆஞானசம்பந்தர் இ)சேக்கிழார் ஈ)நம்பியாண்டார்நம்பி
46. தேம்பாவணியின் கதைத் தலைவர் யார்?

அ)இயேசுநாதர் ஆ)சூசையப்பர் இ)யோவான் ஈ) மத்தேயு
47. செங்கரும்பு என்பதன் இலக்கணக் குறிப்பு யாது?

அஉம்மைத்தொகை ஆ)பண்புத்தொகை இ)வினைத்தொகை ஈ)உவமைத்தொகை
48. குறிஞ்சித்திணையின் தெய்வம் யார்?

அ)சேயோன் ஆ)மாயோன் இ)வருணன் ஈ)இந்திரன்
49. கீழ்க்கண்டவற்றுள் வினையெச்சம்எது?

அ)வந்த மனிதன் ஆ)வராத மனிதன் இ)வந்துசென்றான் ஈ) வரும் மனிதன்
50 , மாரி என்ற சொல்லின் பொருள் யாது?
அ) நிலம்
ஆ) மழை
இ) நெருப்பு
ஈ) காற்று held meets with Prospective Adoptive Parents. CARA is a statutory body of the Ministry of Women and Child Development.
22. A. To mark the 51 st anniversary of India's victory in the Longewala battle during the India-Pakistan war, Parakram Diwas was celebrated at Jaisalmer Military Station and Longewala War Memorial in Rajasthan. The ongewala battle between India and Pakistan was held in 1971.
23. B. Cyclone Mandous lies over southwest Bay of Bengal, about 620 km southeast of Chennai. The storm is likely to cross the coasts of north Tamil Nadu, Puducherry and Andhra Pradesh between Puducherry and Sriharikota. Under its influence, rainfall is expected over parts of coastal Tamil Nadu, Puducherry and Andhra Pradesh for two days. Red alert has already been issued for Coastal Andhra Pradesh, Tamil Nadu and Puducherry.
24. C. Sukhvinder Singh Sukhu has recently sworn in as the next Chief Minister of Himachal Pradesh. He was a four-time MLA and chairman of the Congress' state election campaign committee. MukeshAgnihotri has been selected as the Deputy Chief Minister. The Indian National Congress party won the Himachal Pradesh state assembly elections.
25. C. The Indian Air Force (IAF) is set to conduct its annual air exercise in the eastern sector, amid the fresh tensions along the Line of Actual Control (LAC) in Arunachal Pradesh. The exercise is set to see the activation of IAF bases in the areas around Tezpur, Chhabua, Jorhat in Assam and Hashimara in West Bengal. Fighter jets, transport aircraft, helicopters and Unmanned Aerial Vehicles (UAVs) will participate in the exercise.
26. B. Union Tourism minister dedicated four projects under Swadesh Darshan scheme to nation in Puducherry. The minister also inaugurated the Puducherry Shopping Festival 2022 logo. The festival aims to promote business tourism and trade, by creating unique shopping experiences for the tourists visiting Puducherry.
27. A. India has received all 36 Rafale aircraft from France, with the last aircraft landing in the country recently. India and France signed the inter-government agreement in 2016, under which France agreed to provide 36 Rafale fighter jets at a cost of around 60,000 crore rupees to India.
28. B National Mathematics Day is observed on December 22 every year. It marks the birth anniversary of legendary mathematician SrinivasaRamanujan. In 2012, then Prime Minister Manmohan Singh declared December 22 as National Mathematics Day. SrinivasaRamanujan, a legendary mathematician, was born on December 22, 1887 and his contribution the field led to resolution of many unsolved theorems.
29. B. The Union Cabinet approved pending One Rank One Pension (OROP) revision for retirees from armed forces and their families. The scheme has been delayed since July 2019. Arrears will be paid from July 1, 2019 to June 30, 2022 which is approximately Rs. 23,638 crores. As per the Defence Ministry, over 25.13 lakh people, including over 4.52 lakh new beneficiaries, armed forces pensioners and family pensioners will benefit.
30. B. Argentina became FIFA World Cup champion by beating the defending Champion France 4-2 in penalties. Argentina lifted the FIFA World Cup title for the third time. KylianMbappe scored a hat-trick for France, while Argentina captain Lionel Messi scored a brace and Angel di Maria netted one goal for Argentina.

## QUANTITATIVE APTITUDE: $\quad 31 . \mathrm{B} \quad 32 . \mathrm{B} \quad 33 . \mathrm{A} \quad 34 \mathrm{D} \quad 35 . \mathrm{C}$

31. B Total age of A and B four years ago $=20 * 2=40$ years, Present total age of $A$ and $B$ would be $=40+4 * 2=48$ years Present total age of $\mathrm{A}, \mathrm{B}$ and C is $=25 * 3=75$ years,
$\therefore$ Present age of C would be $=75-48=27$ years, Age of C after 7 years $=27+7=34$ years
32. $B$ In such questions, each alternative should be tried. So, if $P=3$, we will get; $8+1=9$

If $\mathrm{P}=4$, we will get; $16+1=17$, If $\mathrm{P}=5$, we will get; $32+1=33$, If $\mathrm{P}=6$, we will get; $64+1=65$
Out of the four results, only 17 is the prime number. So, the required value of the P is 4 .
33. A Let the radius of both the spheres be ' r ' and ' R ', respectively. $\mathrm{r}: \mathrm{R}=2: 3$

Volume of sphere $=4 / 3 \pi r^{3}$, Ratio between the volume of spheres $=\left(4 / 3 \pi r^{3}\right) /\left(4 / 3 \pi R^{3}\right)=2^{3} / 3^{3}=8 / 27=8: 27$
34. D Distance $=(240 \times 5)=1200 \mathrm{~km} . \quad$ Speed $=$ Distance $/$ Time

Speed $=1200 /(5 / 3) \mathrm{km} / \mathrm{hr}$. [We can write $12 / 3$ hours as $5 / 3$ hours]
$\therefore$ Required speed $=(1200 \times 3 / 5) \mathrm{km} / \mathrm{hr}=720 \mathrm{~km} / \mathrm{hr}$.
35. C Let total votes $=100$

So, as per question, the winner gets 60 votes and the loser gets 40 votes.
Now, the difference between votes $=20$, but ATQ, it is 2000 .
So, we have to multiply 20 by 100 to make it equal to 2000 .
So, 100 (the assumed total votes) are also required to be multiplied with 100.
Therefore, the total votes $=100 * 100=10000$.

## TEST OF REASONING : <br> 36.B 37.B 38.A 39.B <br> 40.C

36. B A joke results in laughter and horror result in fear.
37. B The first letter in the word ARMY remains same and the second, third and fourth letters are moved one, two and three steps forward respectively. Following the same coding, J will be coded as J, U as V, D as F, G as J and E as I, So, the JUDGE is written as JVFJI
38. A All lay eggs except whale.
39. B This is an alternative subtraction series; 2 is subtraction twice, then 4 is subtracted once and so on. Therefore, the next two number are 34 and 32.
40. C Rest are parts of an aero plane.

தமிழ் விடைகள்:
41.ஈ)காலாபாணி 42.இ)மூன்று 43.ஈ)சிலம்பு 44.அ)அகநானூறு 45அ)காரைக்கால் அம்மையார்
46.ஆ)சூசையப்பர் 47.ஆ)பண்புத்தொகை 48.அசேயோன் 49.இ)வந்துசென்றான் 50.ஆ)மழை

# VIVEKANANDA COLLEGE, TIRUVEDAKAM WEST GENERAL KNOWLEDGE <br> <br> EVERYDAY SCIENCE 

 <br> <br> EVERYDAY SCIENCE}

1. Which of the following gland is present in the human mouth?
a) Adrenal
b) Pituitary
c) Gonads
d) Salivary
2. Name the part of the body on which corona virus affects the most?
a) Heart
b) liver
c) kidney
d) Lungs
3. What is the name of juice secreted from the gall bladder?
a) Saliva
b) Hydrochloric acid
c) Bile juice
d) Maltase
4. Name the fabric which is used in making bulletproof jackets
a) Iron
b) Aluminum
c) Steel
d) Kevlar
5. Which one has the highest density?
a) Snow
b) Teflon
c) Soil
d) Sand
6. Which of the following topology is used in Ethernet?
a) Ring topology
b) Bus topology
c) Mesh topology
d) Star topology
7. Which among the following is not a true fruit?
a) Plum
b) Dates
c) Grape
d) Apple
8. Where is the Forest Research Institute located?
a) Lucknow
b) Delhi
c) Bhopal
d) Dehradun
9. Which of the following is indicated by the colour of a star?
a) Weight
b) Distance
c) Temperature
d) Size
10. In atom with more neutrons than protons is called
a) compound
b) element
c) isotope
d) isotone

## GENERAL STUDIES

11. Development expenditure of the Central government does not include
A. Defence expenditure
B. Expenditure on economic services
C. Expenditure on social and community services
D. Grant to states
12. Gilt-edged market means
A. Bullion Market B.Market of Government Securities C.Market of Guns D. Market of Pure Metals
13. In the last one decade, which one among the following sectors has attracted the highest foreign direct investment inflows into India?
A. Chemicals other than fertilizers
B. Services sector
C.Food processing
D. Telecommunication
14. The currency convertibility concept in its original form originated in
A. Wells Agreement
B. Bretton Woods Agreement
C. Taylors Agreement
D. None of the above
15. Under Akbar, the Mir Bakshi was required to look after
A. Military affairs
B. The state treasury
C. The royal household
D. The land revenue system
16. The words 'Satyameva Jayate' inscribed below the base plate of the emblem of India are taken from
A. Rigveda
B.Satpath Brahmana
C. Mundak Upanishad
D. Ramayana
17. The head quarters of Sahitya Akademiis at A.Mumbai B.Chennai
C. New Delhi
D.Kolkata
18. The National Song of India was composed by
A. Rabindranath Tagore
B. Bankim Chandra Chatterji
C.Iqbal
D. Jai Shankar Prasad
19. The Nagaland State of India cannot be termed as a state because it lacks
A. sovereignty
B. bicameral legislature
C. a high court exclusively of its own
D. None of the above
20. The president can be removed from his office before the expiry of his normal term only on the recommendation of A. the Supreme Court $\quad$ B. the chief justice of India C. council of ministers D. the two Houses of Parliament

## CURRENT AFFAIRS

21. Among the five monolithic rathas of Pallavas at Mahabalipuram, the largest is $\qquad$ ?
[A] Arjuna
[B] Bhima
[C] Dharmaraja
[D] Draupadi
22. Jagdish Khebudkar was a renowned poet and lyricist of which among the following languages?
[A] Marathi
[B] Konkani
[C] Kannada
[D] Gujarathi
23. How Kumbh meta is organised in India?
[A] Every 4 years at 3 location
[B] Every 12 years at 4 locations
[C] Every 3 years at 4 locations
[D] Every 4 years at 4 locations
24. Which among the following place is not associated with Jain Temples?
[A] Sravanbelgola
[B] Palitana
[C] Khandgiri
[D] Ratnagiri
25. Which period is regarded as the Golden age of Telugu literature?
[A] Satavahana rule
[B] Eastern Chalukyan rule
[C] Vijayanagara rule
[D] Kakatiya rule
26. Which of the following schools of thoughts was established by Makkhali Gosala?
[A] Ajivika
[B] Charvaka
[C] Lokayat
[D] Vaisesika
27. Which of the following school of Hindu philosophy asserts that Moksha is gained through right knowledge?
[A] Yoga
[B] Samkhya
[C] Mimansa
[D] Nyaya
28. Nyaya school's epistemology accepts four out of how many Pramanas as reliable means of gaining knowledge?
[A] Seven pramanas
[B] Six pramanas
[C] Eight pramanas
[D] Nine pramanas
29. To which of the following states does the folk song 'Bhawaiya' belong?
[A] Jharkhand
[B] Chhattisgarh
[C] West Bengal
[D] Odisha
30. 'All souls day' is a festival of which religion?
[A] Muslim
[B] Christian
[C] Jainism
[D] Buddhism

## QUANTITATIVE APTITUDE

31. Find the product of $(8.77 \times 8.77 \times 8.77+4.23 \times 4.23 \times 4.23) /(8.77 \times 8.77-8.77 \times 4.23+4.23 \times 4.23)$ ?
A. 11
B. 4.54
C. 8.77
D. 13
32. Three years back average age of $A$ and $B$ was 32 . Today average age of $A, B$ and $C$ is 30 . What is the age of $C$ ?
A. 5
B. 15
C. 20
D. 10
33. I forgot the last digit of a 7 digit telephone number. If one randomly dial the final three digits after correctly dialing the four, then what is the chance of dialing the correct number?
A. $1 / 1000$
B. $4 / 1000$
C. 7/1000
D. $3 / 1000$
34. Find the remainder when $67^{99}$ is divided by 7 .
A. 4
B. 6
C. 1
D. 2
35. The difference between simple and compound interest for the fourth year is Rs. 7280 at $20 \%$ p.a. What is the principal sum?
A. 78653
B. 67000
C. 50000
D. 55000

## TEST OF REASONING

Based on the alphanumeric series given below, answer the following questions:
Alphanumeric Series: W \% ^ K V P 1I7E 0 \& 29 AF ZN 4 * @ U ? M
36. How many numbers in the series are preceded by a vowel?
a) Four
b) Two
c) One
d) Three
37. What is the second element from the right of 7th element from left?
a) K
b) V
c) 1
d) 7

Refer to the numerical series given below and answer the following questions: 435224786823902
38. When all the digits in each of the given numbers are arranged in ascending order, which number becomes the highest?
a) 435
b) 224
c) 786
d) 823
39. Find the odd one out from the given pairs.
a) $5: 15$
b) $24: 70$
c) $33: 99$
d) 121:363
40. Introducing a man, a woman said, 'He is the only son of my mother's mother." How is the woman related to the man?
a) Mother
b) Aunt
c) Sister
d) Niece
41. பொருந்தா இணையினைக் கண்டறிக. அ.களிறுளறந்துபெயர்தல் காளைக்குக் கடனே-புநானாறு ஆ.உழுதுண்டுவாழ்வாரேவாழ்வார்-திருக்குறள் இ.கூடலில் ஆய்ந்தஒண்தீந்தமிழன்-சிலப்பதிகாரம்

ஆ.உழுதுண்டுவாழ்வாரேவாழ்வார்-திடுக்குறள் ஈ.பண்லணாடுதமிழழாப்பாய்-ததவாரம்
42. 'திரிகடுகம்'பற்றிய கூற்றுகளில் பபாருத்தமானவற்றைக் குறிப்பிக. அ.திரிகடுக்் 102 வெண்பாக்களைஉடடயது. ஆ.திரிகடுகத்தின் ஆசிரியர் நல்லாதனா்் இ.திரிகடுகம் பதினெண் கீழ்க்கணக்கு நூல்களுள் ஒன்று ஈ.சுக்கு,மிளகு,திப்பிலியால் ஆனமருந்துக்குப்பபயர் திரிகடுகம்.
43. பாந்தள்,உரகம்,பன்னகம்,பணிளன்றும் சொற்களின் பொருள் --------- என்பதாகும்.
அ. கரடி
ஆ. யானை
இ. முதலை
ஈ.பாம்பு
44. பட்டியல் 1 ஐயும் 2 ஐயும் பொருத்திஉரியவிடையைத் தேர்க. அ.பாடுஎனக் கூறியவுடன் பாடுபவர்-1.சித்திரகவி ஆ.ஓசைநலம் சிறக்கப் பாடுபவர்-2. வித்தாரகவி இ.தொடர்நிலைச்செய்யுள் பாடுபவர்-3.ஆசுகவி ஈ.சொல்லணிஅமைத்துப்பாடுபவர்-4. மதுரகவி அ. $3,4,2,1$ ஆ. $4,3,1,2$ இ.2,1,4,3 இ.2,1,4,3 ஈ.3,2,1,4
45. மூலிகையின் பொதுப்பெயரையும் சிறப்புப் பெயர்களையும் பொருத்திகீழேக் கொடுக்கப்பட்டுள்ளசரியானவிடையைத் தேர்வுசெய்க.
மூலிகையின் பொதுப்பெயர்
சிறப்புப்பெயர்
அ. தூதுவளை

1. குமரி

ஆ. கற்றாழை
2. ஞானப்பச்சிலை

இ. குரிசலாங்கண்ணி
3. இந்தியமருந்து

ஈ. குறுமிளகு
ஆ. $3,4,2,1$
இ. $1,2,3,4$
ஈ. 2, 1, 4, 3
46. கீழ்க்காணும் கூற்றுகளில் பொத்தமற்றதைத் தேர்வுசெய்க.

அ. தந்தைபெரியார் ‘பகுத்தறிவாளர் சங்கத்தை’நிறுவினார்.ஆ. பெரியார் கள்ளுக்கடைமறியலில் ஈடுபட்டார்.
இ. பெரியார் மகாத்மாகாந்தியின் தொண்ட்் ஆனார்.
ஈ. ஒத்துழையாமை இயக்கத்தில் பங்கேற்று மூன்றரைஆண்டுகள் சிறைவாசம் அனுவித்தார்.
47. காந்தியடிகளால் தத்தெடுக்கப்பட்டமகள் என்றுஅழைக்கப்பட்டவர் யார்?

அ. அம்புஜத்தம்மாள் ஆ.தில்லையாடிவள்ளியம்மை இ. அஞ்சலையம்மாள் ஈ.வேலுநாச்சியார்
48. திருக்கோட்டியூர் நம்பியால் ‘எம்பெருமானார்’ என்றுஅழைக்கப்பட்டவர் யார்? அ.நாதமுனிகள் ஆ.இராமாநுச்் இ.திருவரங்கத்தமுதனார் ஈ.மணவாளமாமுனிகள்
49. புகைப்பழக்கத்தைக் கதைக்கருவாகக் கொண்டமெல்லமெல்ல மற் என்ற சிறுகதையின் ஆசிரியர் அ.இலட்சுமி ஆ.சுஜாதா இ.சுபா ஈ.தாமரை
50. துய்ப்ளேஆட்சியில் ஆளுநர் மாளிகைகக்குள் பல்லக்கினில் செல்லும் உரிமை யாருக்குவழங்கப்பெற்றது? அ.வீரராகவர் ஆ.ஆனந்தரங்கர் இ.பரஞ்சோதி ஈ.தருமி

| ANSWERS: |  |  |  |  |  | (07-01-2023) |  |  |  | $c \stackrel{\Delta}{\Delta>\Delta}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| EVERYDAY SCIENCE | 1.D | 2. D | 3. C | 4.D | 5.B | 6.B | 7.D | 8.D | $9 . \mathrm{C}$ |  |  |
| GENERAL STUDIES | 11.A | 12.B | 13.D | 14.B | 15.A | 16.C | 17.C | 18.B | 19.A | 20.D |  |
| CURRENT AFFAIRS | 21.C | 22.A | 23.B | 24.D | 25.C | 26.A | 27.D | $28 . \mathrm{B}$ | 29.C | $30 . \mathrm{B}$ |  |
| QUANTITATIVE APT | TUDE |  | 31.D | 32.C | 33.A | 34.C | 35.C |  |  |  |  |

31. $\mathrm{D}(8.77 \times 8.77 \times 8.77+4.23 \times 4.23 \times 4.23) /(8.77 \times 8.77-8.77 \times 4.23+4.23 \times 4.23)$ ? $=\left[(8.77)^{3}+(4.23)^{3}\right] /\left[(8.77)^{2}-(8.77 \times 4.23)+(4.23)^{2}\right]=\left(\mathrm{a}^{3}+\mathrm{b}^{3}\right) /\left(\mathrm{a}^{2}-\mathrm{ab}+\mathrm{b}^{2}\right)$ $=(a+b)\left(a^{2}-a b+b^{2}\right) /\left(a^{2}-a b+b^{2}\right)=(a+b)=8.77+4.23=13$
32. C 3 years back average age of $A$ and $B$ is $[(A-3)+(B-3)] / 2=32 \quad$ Hence $A+B=70$ Today average of $\mathrm{A}, \mathrm{B}$ and C is 30 i.e. $(\mathrm{A}+\mathrm{B}+\mathrm{C}) / 3=30$ $\mathrm{A}+\mathrm{B}+\mathrm{C}=90 \quad$ Hence $\mathrm{C}=\mathrm{A}+\mathrm{B}+\mathrm{C}-\mathrm{A}-\mathrm{B}=20$
33. A It is given that last three digits are randomly dialed. Then each of the digit can be selected out of 10 digits in 10 ways. Hence required probability $=1 / 10 * 1 / 10 * 1 / 10=1 / 1000$
34. C Remainder of $\left[\left(67^{99}\right) / 7\right]=\mathrm{R}==>\left[(63+4)^{99}\right] / 7$ 63 is divisible by 7 for any power, so required remainder will depend on the power of 4 . Require remainder: $\left.\left(4^{99}\right) / 7==\mathrm{R}=\Rightarrow\left[4^{(96+3)]}\right] / 7 \Rightarrow=>\left[4^{\left[3^{* 3} 32\right]}+3\right)\right] / 7^{\circ}$ $\left[4^{\left(3^{*} * 32\right]} * 4^{3}\right] / 7=\left[\left(4^{3}\right)^{32} * 4^{3}\right] / 7=\left[(64)^{32} * 4^{3}\right] / 7=\left[(1)^{32} * 4^{3}\right] / 7=4^{3} / 7==>64 / 7=\Rightarrow(63+1) / 7=\mathrm{R}==>1$.
35. C Difference between CI and SI for nth year, $=[(\operatorname{Pr}) / 100] *\left[(1+(r / 100))^{(n-1)}-1\right]$
$\Rightarrow 7280=[(\mathrm{P} * 20) / 100] *\left[(1.2)^{3}-1\right]==[(\mathrm{P} * 20) / 100] *[1.728-1]=\left[\left(\mathrm{P}^{*} 0.782\right) / 5\right]$
$\Rightarrow \mathrm{P}=7280 * 5 / 0.782=50000$.

## TEST OF REASONING: <br> $\begin{array}{lllll}\text { 36.B } & \text { 37.D } & 38 . C & 39 . B & 40 . D\end{array}$

36. B Solution: 7 is preceded by $I$ and 0 is preceded by $E$.
37. D Solution: the Seventh element from left is 1 and 2nd element to the right of 1 is 7
38. C
39. B Solution: The pattern followed is 3 multiplied by the first digit gives the second digit $5 \times 3=15$ which gives $5: 15, \quad 24 \times 3=72$ and the given option is $24: 70$ $33 \times 3=99$ which gives $33: 99, \quad 121 \times 3=363$ which gives $121: 363$
40. D Solution:My mother's mother - My grandmother: My grandmother's only son - My maternal uncle. So, the woman is man's niece.

தமிழ் விடைகள்: 41.இ 42.அ 43.ஈ 44.அ 45.ஈ 46.அ 47.அ 48.ஆ 49.அ 50. .ஆ

## EVERYDAY SCIENCE

1. Which of the following is a tissue?
(A) Blood
(B) Lungs
(C) Kidney
(D) Ovary
2. What play the most important role in regulating temperature and determining climate on the Earth?
(A) Oceans
(B) Mountains
(C) Deserts
(D) Forests
3. Each day human body breathe in $\qquad$ liters of air
(A) 5,000 to 10,000
(B) 10,000 to 15,000
(C) 15,000 to 20,000
(D) 20,000 to 25,000
4. Which component of the body works as an energy storage device?
(A) Fats
(B) Proteins
(C) Liver
(D) Skin
5. Which of the following is not a function of bones?
(A) support
(B) production of blood cells
(C) protein synthesis
(D) muscle attachment
6. Protein factory is
(A) nucleus
(B) ribosome
(C) golgi complex
(D) centriole
7. The average human body contains about $\qquad$ gram of Sodium Chloride.
(A) 190
(B) 210
(C) 230
(D) 250
8. In humans, heart functions as a source of
(A) battery
(B) charge
(C) electric generator
(D) electromotive force
9. NTFS stands for?
(A) New Trend File Saving (B) Network File Saving (C) New Technology File System (D) None Of These
10. The amount of time taken by a device to begin reading data is called
(A) Seek time
(B) Read time
(C) Access time
(D) Write time

## GENERAL STUDIES

11. Which Indian bank has launched a pre-paid card called 'Enkasu', which can be used both online and offline? $\begin{array}{llll}\text { A. City Union Bank } & \text { B. KarurVysya Bank } & \text { C. Tamil Nadu Mercantile Bank } & \text { D. Tamil Nadu Grama Bank }\end{array}$
12. Under the Benami Transactions (Prohibition) Amendment Act, 2016 the punishment for indulging in illegal transaction is
A. 3 years
B. 5 years
C. 6 years
D. 7 years
13. How many times has the Indian Currency been demonetised so far?
A. One
B. Three
C. Two
D. Four
14. National Income of a country can be calculated by
A. 2 methods
B. 4 methods
C. 3 methods
D. 5 methods
15. In which District of Tamilnadu Karaivetti Bird sanctuary is located?
A. Ramanathapuram
B. Thirunelveli
C. Ariyalur
D. Nagapattinam
16. The Book: "My Olympic Journey", released in July 2016 was written by
A. AbinavBindra
B. Dig Vijay Singh Deo
C. Sania Mirza
D. Mary Kom
17. Who is the changing agent of the society?
A. Farmer
B. Weaver
C. Actor
D. Entrepreneur
18. Who is called the First Citizen and Father of the City?
A. Chief Minister
B. Commissioner
C. Mayor
D. Thasildar
19. The First President of the Madras Mahajana Sabha was
A. Vengaiah Naidu
B. G.T. Naidu
C. Ramaswamy Naidu
D. P. Rengaiah Naidu
20. Which fin-tech company has launched Stock Trading services on its platform?
A. Paytm
B. Freecharge
C. PhonePe
D. Google Pay

## CURRENT AFFAIRS

21. Vidisha, the first district for deployment of innovative 5 G use cases, is located in which state?
[A] Odisha
[B] Madhya Pradesh
[C] West Bengal
[D] Assam
22. Which institution released the 'Rural Health Statistics report'?
[A] NITI Aayog
[B] Ministry of Health and Family Welfare [C] AIIMS
[D] IMA
23. Which public sector bank partnered with 'Garuda Aerospace' under the Kisan Pushpak Scheme?
[A] Canara Bank
[B] State Bank of India
[C] Union Bank of India
[D] Punjab National Bank
24. Which state/UT suggested the Centre to grant "migrated minority" status?
[A] Punjab
[B] Delhi
[C] Jammu and Kashmir
[D] Assam
25. Which institution recently released the 'Survey on dietary supplements'?
[A] FCI
[B] FSSAI
[C] NITI Aayog
[D] Union Health Ministry
26. Which organisation released the 'Global Risks Report 2023'?
[A] World Bank [B] World Economic Forum [C] International Monetary Fund [D] Asian Development Bank
27. Who is the author of the 'Revolutionaries- The Other Story of How India Won Its Freedom' Book?
[A] Amit Shah
[B] Manoj Soni
[C] Santishree Dhulipudi Pandit
[D] Sanjeev Sanyal
28. Which state launched the 'shared school bus system' and agriculture response vehicle scheme?
[A] Assam
[B] West Bengal
[C] Meghalaya
[D] Bihar
29. Road Transport and Highways Ministry observes Road Safety Week in which month?
[A] November
[B] December
[C] January
[D] February
30. Which is the first European country to have a Reciprocal Access Agreement with Japan?
[A] Germany
[B] UK
[C] Italy
[D] France

## QUANTITATIVE APTITUDE

31. If $3: 4=6: n$ then values of $n$ is $\qquad$
a) 18
b) 9
c) 8
d) 6
32. $30 \%$ of 20 plus $20 \%$ of 30 equals
a) 10
b) 12
c) 18
d) 21
33. In an examination $30 \%$ students fail in maths $25 \%$ fail in English and $15 \%$ in both what is a pass percentage?
a) $45 \%$
b) $55 \%$
c) $40 \%$
d) $60 \%$
34. $25=$ ? $\%$ of 625
a) 4
b) 3
c) 2
d) 6
35. Complete series: $3,9,81$
a) 6561
b) 6526
c) 6165
d) 1665

## TEST OF REASONING

36. Cyclone is related to Anticyclone in the same way as flood is related to $\qquad$
a) Devastation
b)Havoc
c)River
d)Drought
37. Needle: Clock; Wheel:?
a) Walk
b) Road
c) Vehicle
d) Driving
38. In a coded language "come at once father very sick" is written as "XLNV ZG LMXV NLGSVI EVIB WJXP". What is the code for "sister"?
a) WJWMXI
b) WJWLSI
c) WIWSVI
d) WJWGVI
39. If BHASHA is coded as 154754 , BRAIN is coded as 13408 , AHINSA will be coded as
a) 450874
b) 405847
c) 450847
d) 405874
40. Find $X$

| 5 | 9 | 6 | 84 |
| :--- | :--- | :--- | :--- |
| 7 | 3 | 7 | 70 |
| 8 | 6 | 4 | 56 |
| 5 | $X$ | 3 | 36 |

a) 4
b) 7
c) 9
d) 3

## தமிழ்

41. செம்மொழி ஆய்வு மையம் சென்னையில் தொடங்கப் பெற்ற ஆண்டு யாது?
அ)2008
ஆ)2005
இ) 2010
ஈ)2012
42. யானைக்கண்செய் மாந்திரஞ்சேரல் இரும்பொறை தொகுப்பித்த நூல் எது? அ)அகநானூறு ஆ)குறுந்தொகை 毋)ஐங்குறுநூறு $\quad$ ஈதிற்றுப்பத்து
43. பரணி இலக்கியத்திற்கு தோற்றமாக இருந்த கீழ்க்கணக்கு நூல் எது?

அ)களவழி நாற்பது ஆ)கார்நாற்பது இ)இன்னாநாற்பது ஈ)இனியவை நாற்பது
44. நாத குத்தனார் எழுதிய காப்பியம் எது?

அ)நீலகேசி ஆ)பெருங்கதை இ)குண்டலகேசி $\quad$ ஈளவெண்பா
45. திருவம்பாவை பாடியவர் யார்?

அ)ஆண்டாள் ஆ)மாணிக்கவாசகர் இ)ஞானசம்பந்தர் ஈ)அப்பர்
46. திருப்பாவையில் உள்ள பாடல்களின் எண்ணிக்கை யாது?
அ)20
ஆ)30
இ)40
ஈ)50
47. மயிலை நகர் மேல் திருவம்பாவை பாடிய சமணர் யார்?

அ)அவிரோதிநாதர் ஆ)உதீசித்தேவர் இ)சீவசம்போதனை $\quad$ ஈ)அம்ர் சாகரர்
48. திருக்குறளையும் முழுமையாக ஆங்கிலத்தில் மொழி பெயர்த்தவர் யார்? அ)கிரால் ஆ)ஏரியல் இ)ராட்லர் ஈ)லாசரஸ்
49. முஸ்லிம் மக்கள் திருப்புகழ் பாடியவர் யார்?

அ)அசனிப் புலவர் ஆ)ஐயம்பேட்டை மதாரு சாகிபு இ)அப்துல் காதிறு லெப்பை ஈ)காசிம் புலவர் 50. 2022 ஆம் ஆண்டிற்கான சாகித்ய அகாடமி விருது பெற்ற நூல் எது?
அ)காலா பாணி
ஆ)தமிழின்பம்
இ)தோல்
ஈ)இயந்திரம்

36. D The words in pair represent opposite conditions. Flood and Drought is opposite of each other, just like Cyclone and Anticyclone.
37. C 'Needle' is a part of a 'Clock' in the same way as 'Wheel' is a part of a 'Vehicle'.
38. D COME AT ONCE FATHERVERY SICK XLNV ZG LMXV NLGSVIEVIB WJXP

| 39. A B HASHA | BRAIN | AHINSA |
| :---: | :---: | :---: |
| 154754 | 13408 | $\underline{450874}$ |

40. $B$ In the table, last column in a given row is obtained by adding the values in $1^{\text {st }}$ and $2^{\text {nd }}$ column and multiplying the result with the value in the $3^{\text {rd }}$ column. $(5+\mathrm{x}) 3=36 \rightarrow 5+\mathrm{x}=12, \therefore \mathrm{x}=7$ $5+9=14 \times 6=84, \quad 7+3=10 \times 7=70, \quad 8+6=14 \times 4=56, \quad 5+7=12 \times 3=36$

தமிழ் விடைகள்: 41.அ12008 42.இ)ஐங்குறுநூறு 43.அ)களவழி நாற்பது 44.இ)குண்டலகேசி 45.ஆ)மாணிக்கவாசகர் 46.ஆ30 47.அ)அவிரோதிநாதர் 48.ஈ)லாசரஸ் 49.ஈ)காசிம் புலவர் $50 . ஈ$ இயந்திரம்

## VIVEKANANDA COLLEGE, TIRUVEDAKAM WEST GENERAL KNOWLEDGE <br> EVERYDAY SCIENCE

1. Any molecule which acts directly on an enzyme to lower its catalytic rate is called
a) Regulator
b) Repressor
c) Inhibitor
d) Moderator
2. All of the following organs in the human body are located both on the right and the left sides, except
a) Lungs
b) Kidneys
c) Eyes
d) Spleen
3. Azadiractaindica is the botanical name of
a) Rice
b) Neem
c) Sandal
d) Turmeric
4. Fathom is the unit of measurement of
a) Depth of water
b) Flow of water
c) Volume of water
d) Density of water
5. In poorly ventilated buildings which one of the following inert gases can be accumulated?
a) Helium
b) Neon
c) Argon
d) Radon
6. The Potassium graphite and Calcium Graphite can be mostly used as which among the following?
a) Moderators
b) Semiconductors
c) Superconductors
d) Lubricants
7. Which among the following substances is being used most commonly for producing synthetic jet Fuel?
a) Coal
b) Natural Gas
c) Plastic Waste
d) Biomass
8. Among the biotic components of the ecosystem, the producer system is?
a) Sea
b) Rivers
c) Green Plants
d) Animals
9. Which among the following is used in preparing windows for X-Ray Tubes?
a) Barium
b) Beryllium
c) Magnesium
d) Calcium
10. Buckeyballs are basically the allotropes of $\qquad$ ?
a) Carbon
b) Sulfur
c) Phosphorus
d) Calcium

## GENERAL STUDIES

11. The child bearing age of women in India is
a) $20-24$
b) $20-29$
c) $13-48$
d) $15-49$
12. SO was set up in
a) May 1950
b) May 1951
c) 1953
d) 1953
13. Which state government has recently launched 'one family, one job' scheme?
a) Rajasthan
b) Madhya Pradesh
c) Chhattisgarh
d) Sikkim
14. Which year is known for BOP crisis in Indian Economy?
a) 1990
b) 1991
c) 1995
d) 1999
15. The death rate of babies under one month is known as
a) NMR
b) IMR
c) MMR
d) Foetal death rate
16. Who among the following can remove the Governor from his office?
a) Parliament
b) State Legislative Assembly
c) President
d) none of these
17. Dappu dance is the dance of which state?
a) Gujarat
b) West Bengal
c) Karnataka
d) Andhra Pradesh
18. Apart from India, Tamil language is the official language of where? a) Sri Lanka and Singapore b) Mauritius and Singapore $\quad$ c) Sri Lanka and Malaysia $\quad$ d) Indonesia and Malaysia
19. This country is known as the 'Sugar Bowl of the World'; identify it from the given options.
a) Brazil
b) Cuba
c) Mexico
d) Algeria
20. Which is the third largest desert in the world?
a) The Sahara Desert
b) Gobi Desert
c) The Thar Desert
d) The Arabian Desert

## CURRENT AFFAIRS

21. Which Department under the 'Ministry of Finance' notifies changes in rates on small savings schemes?
[A] Department of Expenditure
[B] Department of Economic Affairs
[C] Department of Revenue
[D] Department of Financial Services
22. Pung Sui Kyi is the former leader of which country?
[A] Thailand
[B] Myanmar
[C] Bangladesh
[D] Nepal
23. Which country commenced its annual war-game 'Zolfaghar-1401', in the coastal area of the Gulf of Oman?
[A] UAE
[B] Afghanistan
[C] Iran
[D] Israel
24. Which institution released the 'Statistical Tables relating to Banks in India'?
[A] Reserve Bank of India
[B] Finance Ministry [C] NITI Aayog
[D] World Bank
25. As per a recent UN survey, which region has the highest unemployment rate in the world?
[A] African
[B] South-Asian
[C] North-American
[D] Arab
26. The New Integrated food security Scheme subsumes two current schemes of which Ministry?
[A] Ministry of Agriculture and Farmers Welfare
[B] Ministry of Consumer Affairs, Food and Public Distribution
[C] Ministry of Home Affairs
[D] Ministry of Rural Development
27. Which state launched 'Didir Suraksha Kawach and Didir Doot' programmes?
[A] Bihar
[B] Rajasthan
[C] West Bengal
[D] Haryana
28. Satyendra Nath Bose, whose birth anniversary was observed recently, was associated with which profession?
[A] Science
[B] Politics
[C] Sports
[D] Business
29. Which sports authority recently introduced 'Yo-Yo and Dexa Tests' in team selection criteria?
[A] Hockey
[B] Weight Lifting
[C] Archery
[D] Cricket
30. Which Union Ministry launched a five-pronged energy efficiency plan to become carbon-neutral by 2030 ?
[A] Ministry of Coal
[B] Ministry of Railways
[C] Ministry of Steel
[D] Ministry of Tourism

## QUANTITATIVE APTITUDE

31. Find out the wrong number in the series: $196,169,144,121,100,80,64$
a) 169
b) 144
c) 80
d) 100
32. Insert the missing number: $10,5,13,10,16,20,19,(\ldots$.
a) 22
b) 40
c) 38
d) 23
33. Find out the wrong number in the given sequence of numbers: $8,13,21,32,47,63,83$
a) 47
b) 63
c) 32
d) 83
34. Find the odd man out: $835,734,642,751,853,981,532$
a) 751
b) 853
c) 981
d) 532
35. Find out the wrong number in the given sequence of numbers: $56,72,90,110,132,150$
a) 72
b) 110
c) 132
d) 150

## TEST OF REASONING

36. Five boys took part in a race. Raj finished before Mohit but behind Gaurav. Ashish finished before Sanchit but behind Mohit. Who won the race ?
a) Raj
b) Gaurav
c) Mohit
d) Ashish
37. 


38. There are six cities A, B, C, D, E and F. A is not a hill station. B and E are not historical places. D is not an industrial city. A and D are not historical places. A and B are not alike. Which two cities are industrial centres?
a) A and B
b) E and F
c) C and D
d) E and F
39. Which word among the following is most similar to the word TENABLE?
a) alluring
b) defensible
c) speculative
d) steadfast
40. Pic the odd man out


## தமிய்

41. யாருடையஆட்சிகாலம் செப்புத்திருமேனிகளின் பொற்காலம் எனஅழைக்கப்பபற்றது? அ. சேரர்கள் ஆ.சோழர்கள் இ.பாண்டியர்கள் ஈ.பல்லவர்கள்
42. தமிழகத்தின் மிகப்பபரிய 'மரத்திருமேனி’ எங்குஅமைந்துள்ளது? அ.மந்கலம் ஆ.மாயவரம் இ.காஞ்சி ஈ.தேவாரம்
43. இரண்டாம் அருணகிரிநாதர் எனஅழைக்கப்பெறுபவர் யார்?

அ.இராமகிருஷ்ணர் ஆ.விவேகானந்தர் இ.பாம்பன்சுவாமிகள் ஈ.தோதாபுரி
44. ‘இவுளிமறவர்’ தலைமையில் இயங்கியபடைஎது? அ.யானைப்படை ஆ.தேர்ப்படை இ.காலாட்படை ஈ.குதிரைப்படை
45. பசிப்பிணிமருத்துவன் எனஅழைக்கப்பபற்றறவள்ளல் யார்? அ.பாரி ஆ.பண்ணன் இ. பேகன் ஈ.ஓரி
46. சங்ககாலத்தில் தையல்காரர்களைஎவ்விதம் அழைத்தனர்? அ.पபாற்கொல்லர் ஆ.காரிகிழார் இ.உரிமைச்சுற்றம் ஈ.துன்னக்கார்
47. பல்லவர்களின் சின்னம் எது? அ.வில் ஆ.மீன் இ.காளைமாடு ஈ.புல
48. சாராயம் மூலம் பெறப்படும் வருவாய் எது? அ.ஊற்றுவரி இ.நிலவரி ஈ.சாற்றுவரி கோட்டுவரி
49. வணிகசாத்துகளின் தலைவன் யார்? அ.மாசாத்துவான் ஆ.மாநாய்கன் இ.மால்வாரி ஈ.ஏனாதி
50. அரசர்களின் இருக்கைசிங்கங்களால் தாங்கப்பட்டிருப்பதால் அதற்கு----------- என்றுபெயர். அ.அரசஇருக்கை ஆ.சிங்கஇருக்கை இ.அரியணை ஈ.ச்ம்மசொப்பணம்


21) Department of Economic Affairs under the Ministry of Finance notifies changes in rates on small savings schemes. Recently, the government hiked the interest rates on various small savings schemes including senior citizen savings scheme for the January to March quarter. The PPF will continue to earn $7.10 \%$, while Sukanya Samriddhi account scheme will continue to earn $7.6 \%$ interest rate.
22) A military court in Myanmar sentenced the country's ousted leader Aung San Suu Kyi to a further seven years in prison on charges of corruption. This has increased her total jail term to 33 years. The court ruling found Suu Kyi guilty of corruption in relation to purchase, repair and rental of a helicopter for use during natural disasters and state affairs
23) Iran has recently commenced its annual drill in the coastal area of the Gulf of Oman and near the strategic Strait of Hormuz. Commandos and airborne infantry would participate in the war-games, dubbed 'Zolfaghar-1401' along with drones, fighter jets, helicopters, military transport aircraft and submarines. The strait is located at the mouth of the Persian Gulf and is crucial to global energy supplies.
24) The Reserve Bank released its web publication titled 'Statistical Tables relating to Banks in India: 2021-22'. The publication covers the activities of the Indian banking sector. It presents entity-wise information of liabilities and assets; income and expenses; financial ratios, number of employees and details of priority sector advances for scheduled commercial banks among other information.
25) According to the latest UN survey, the Arab region registered a 12 per cent unemployment rate in 2022, which is the highest in the world. Poverty measured against national lines also surged, affecting 130 million people in Arab countries. More than one-third of the region's population is affected, excluding Libya and Gulf Cooperation Council countries. The survey showed an expected 3.4 per cent growth next year throughout the Arab region.
26) The new integrated food security Scheme was rolled out with effect from 1 January 2023. It would provide free food grains to 81.35 crore beneficiaries under National Food Security Act (NFSA). The new scheme will subsume two current food subsidy schemes of the Ministry of Consumer Affairs, Food and Public Distribution namely the Food Subsidy to FCI for NFSA, and Food Subsidy for decentralized procurement states 27) West Bengal Chief Minister Mamata Banerjee launched a fresh public outreach programme to reach out to people of the State. Under the initiative of Didir Suraksha Kawach (Didi Protection Shield) about 3.5 lakh volunteers of the Trinamool Congress will reach out to all households of the state about government's flagship programmes. 'Didir Doot' app can be downloaded to register their problems.
28) Satyendra Nath Bose was a Mathematician and physicist from India. He was born on January 1, 1894, in Calcutta, India. The Government of India honoured him with the title Padma Vibhushan in 1954. Bose became a Fellow of the Royal Society and was nominated as a member of the Rajya Sabha in 1958. Bose was also appointed as the National Professor, which was the highest honour in India for any scholar
29) Ahead of the ICC Men's World Cup that takes place in India in October, the Board of Control for Cricket in India has instructed that Yo-Yo and Dexa Tests will be a part of the team selection criteria. Dexa test or DXA test is Dual Energy X-ray Absorptiometry, which measures bone density using low dose X -rays. The Yo-Yo test is an aerobic endurance fitness test, involving running between markers at increasing speeds
30) The Union Railways Ministry has rolled out a five-pronged energy efficiency plan to become carbon-neutral by 2030. The policy is broadly focuses on five action points namely sustainable buildings, cloud-based data monitoring and management portal, energy efficiency in equipment and appliances, power quality and restoration, and capacity building and awareness.

## QUANTITATIVE APTITUDE: $\quad$ 31.C $\begin{array}{lllll}\text { 32.B } & \text { 33.A } & \text { 34.A } & 35 . D\end{array}$

31. C Numbers must be $(14)^{2},(13)^{2},(12)^{2},(11)^{2},(10)^{2},(9)^{2},(8)^{2}$. So, 80 is wrong.
32. B There are two series $(10,13,16,19)$ and $(5,10,20,40)$, one increasing by 3 and the other multiplied by 2 .
33. A Go on adding $5,8,11,14,17,20$. So, the number 47 is wrong and must be replaced by 46 .
34. A In each number except 751, the difference of third and first digit is the middle one.
35. D The numbers are $7 \times 8,8 \times 9,9 \times 10,10 \times 11,11 \times 12,12 \times 13$. So, 150 is wrong.

## TEST OF REASONING: 36.B 37.A $38 . \mathrm{B} \quad$ 39.B $\quad$ 40.B

36. B The order is Gaurav, Raj, Mohit, Ashish, Sanchit. Hence, Gaurav won the race.
37. A Looking across, the numbers decreases by 1 in each alternate squares

38. D By studying the second, third, fourth and fifth sentences we put $\times$ mark in the respective positions corresponding to the cities. When A is neither a historical city nor a hill station. It is, therefore, an industrial city. In the same way D is neither historical nor industrial so it must be a hill station.

|  | A | B | C | D | E | F |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| Historical | $\times$ | $\times$ |  | $\times$ | $\times$ |  |
| Industrial | $\boldsymbol{\checkmark}$ |  |  | $\times$ |  |  |
| Hill Station | $\times$ |  |  | $\checkmark$ |  |  |

A and B are not alike. This means that B is not an industrial city. As B is not a historical place. So, it must be hill station. There are no negative information about C and F and partly about E . We can assure that C and F are hill station, industrial and historical cities and E is industrial as well as hill station.

Now, our final Table is as below :

|  | A | B | C | D | E | F |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| Historical | $\times$ | $\times$ | $\sqrt{ }$ | $\times$ | $\times$ | $\sqrt{ }$ |
| Industrial | $\sqrt{ }$ | $\times$ | $\sqrt{ }$ | $\times$ | $\sqrt{ }$ | $\sqrt{ }$ |
| Hill Station | $\times$ | $\sqrt{ }$ | $\sqrt{ }$ | $\sqrt{ }$ | $\sqrt{ }$ | $\sqrt{ }$ |

39. B defensible
40. B In all the others the same sequence of figures appears. In B the position of two of the figures is reversed.
$\begin{array}{lllllllllll}\text { தமிழ் விடைகள்: } 41 . ஆ & 42 . அ & 43 . இ & 44 . ஈ & 45 . ஆ & 46 . ซ & 47 . இ & 48 . ஆ & 49 . அ & 50 . இ\end{array}$

# VIVEKANANDA COLLEGE, TIRUVEDAKAM WEST GENERAL KNOWLEDGE <br> EVERYDAY SCIENCE 

1. The Acronym ITPGRF Stands for
a) International Trade on Plant Genetic Resources for Food and Agriculture
b) International Treaty on Plant Genetic Resources for Food and Agriculture
c) International Trade on Plant Genomic Resources for Food and Agriculture
d) International Treaty on Plant Genomic Resources for Food and Agriculture
2. If a woman carrier for color blindness maries to a color blind man and produce several children, the expected phenotype (color blind or normal) of the offspring would be-
a) All the offspring will be color blind
b) All male offspring will be color blind and all females will be normal
c) All male offspring will be normal and female will be color blind
d) All female offspring will be carries of color blindness or color blind
3. Plant pathogens can be detected and identified using ELISA and PCR
a) ELISA based detection is more useful for viral pathogen detection than bacterial pathogens
b) Fungal diseases are more amenable for ELISA based detection than plant viruses
c) Bacterial pathogens are more amenable for PCR based detection than plant viruses
d) Bacterial pathogens are more amenable for PCR based detection than fungal pathogens
4. Which of the following statement is correct with respect to domestic animals?
a) All are herbivores
b) All are carnivores
c) All are omnivores
d) All are mammals
5. Where is the biggest animal husbandry farm of Asia situated in Haryana?
a) Ambala
b) Bhiwani
c) Hisar
d) Rohtak
6. A 'fowl pox' disease mostly affects which of the following species?
a) Camels
b) Birds
c) Goat
d) Pig
7. The absorption of ink by blotting paper involves
a) Capillary action
b) Viscosity of ink
c) Siphon action
d) Diffusion
8. Natural radioactivity was discovered by
a) Marie Curie
b) Ernest Rutherfort
c) Henri Becquerel
d) Enrico Fermi
9. Supercooling is cooling of Liquid at which of the following points?
a) Below freezing point
b) Above melting point
c) Melting point
d)Below melting point
10. Which of the following shows an oxidation reaction?
a) Gain of oxygen
b) Loss of oxygen
c) Gain of hydrogen
d)All of these

## GENERAL STUDIES

11. The largest west flowing river of peninsular India is $\qquad$ .
a) Mahi
b) Sabarinati
c) Narmada
d) Luni
12. Human blood grouping was discovered by $\qquad$ -.
a) Landsteiner
b) Punett
$\qquad$
c) Correns d) Muller
13. World Youth Skills day is celebrated on .
a) March, 15
b) May, 15
c)July, 15
d) August
14. Which of the following journal is not associated with Subramaniya Bharathi?
a) A New Daily
b) Vijaya
c) India
d) New India
15. What Thiruvallinvar says are the qualities of an ambassador?
a) Knowledge, Origin, Education
b) Love, Knowledge, Clarity of speech
c) Duty, Knowing the fitting time, Knowing the place
d) Purity, Resources, Courage
16. Boothalingam study group is related to $\qquad$ —.
a) Trad unions
b) Strikes
c) Lockouts
d) Wages
17. Which one of the following fundamental rights has been wrongly listed?
a) Right to Equality
b)Right to Constitutional Remedies
c) Right to Exploitation
d) Right to Freedom
18. Where is the largest solar power project of India located?
a) Rajasthan
b) Karnataka
c) Andhra Pradesh
d) Gujarat
19. During the `Later Chola period', `Irayili' was associated with $\qquad$ -.
a) Tax free land
b) Taxed land
c) Tax levied on temple land
d) Tax levied on leasing land
20. If $\times$ means $\div$, means $\times, \div$ means + , and + means - , what is value of $(3-15 \div 19) \times 8+6$ ?
a) 8
b) 4
c) 2
d) -1

## CURRENT AFFAIRS

21. The $14^{\text {th }}$ Aero India 2023 the yearly display of India's homegrown defense capabilities was officially launched by Prime Minister NarendraModi was held at
a) Delhi
b) Calcutta
c) Bangalore
d) Kashmir
22. What are the two mobile payments linked by RBI Governor ShaktikantaDas and the MD of the Monetary Authority of Singapore Ravi Menon
a) UPI \& PAYTM
b) UPI \& GPAY
c) UPI \& MIPAY
d) UPI \& PAYNOW
23. The Dharma Guardian Exercise was held at
a) USA
b) Singapore
c) Japan
d) Malaysia
24. The first Arab woman who enter space is
a) RayyanaBarnawi
b) Aseel Al-Hamad
c) EmonShakoor
d) MishaalAshemimry
25. To help the people of Turkey in earthquake rescue; India launched
a) Operation Clean
b) Operation Agni
c) Operation Dost
d) Operation Bhumi
26. To revive the tourism industry and increase inbound travel, the tourism ministry of India launched
a) Incredible India
b) Visit India Year 2023 campaign
c) 'NamasteIndia' Campaign
d) India marketing campaign.
27. Who was the Chief Guest of the 2023 Republic Day celebrations of India?
a) Egyptian President Sisi
b) China President Xi Jinping,
c) Mongolia President KhaltmaagiinBattulga
d) Philippines President Rodrigo Duterte
28. The International Mother Language Day is celebrated on
a) $21^{\text {st }}$ January
b) $21^{\text {st }}$ February
c) $21^{\text {st }}$ March
d) $21^{\text {st }}$ April
29. Who is the appointed new CEO of NITI Aayog
a) Mr Amitabh Kant
b) BVR Subrahmanyam
c) Vinay Kumar Tripathi
d) Prashant Kumar Singh
30. Mangdechhu Hydroelectric Power Project, which was implemented with the assistance from India, was recently handed over to the Druk Green Power Corporation (DGPC) in Bhutan: what is the capacity of the power plant?
a) 520 Megawatt
b) 620 Megawatt
c) 720 Megawatt
d) 820 Megawatt

## QUANTITATIVE APTITUDE

31. A bicycle marked at Rs. 1500 is sold to Rs.1350. What is the percentage of discount?
a) $20 \%$
b) $15 \%$
c) $10 \%$
d) $7 \%$
32. By selling a car for Rs. $2,00,000$, a man suffered a loss of $20 \%$ then what is the cost price of the car?
a) $2,20,000$
b) $2,40,000$
c) $2,50,000$
d) $3,00,000$
33. The list price of a shirt is Rs.220/-. A discount of $20 \%$ on sales is announced. What is the amount of discount on it and its selling price?
a) 22,86
b) 33,98
c) 55,183
d) $44, \quad 176$
34. A man bought an old bicycle for Rs.1250. He spent Rs. 250 for repairs. He then sold it for Rs.1400. Find
his loss percentage?
a) $6.67 \%$
b) $6.60 \%$
c) $6.68 \%$
d) $6.65 \%$
35. Ram sold a watch Rs. 405 and earned a profit of $20 \%$. What was his cost price?
a) Rs. 337.50
b) Rs. 87.50
c) Rs. 237.50
d) Rs. 237

## TEST OF REASONING

36. Arrange the words given below in a meaningful sequence.
1.Presentation 2.Recommendation 3. Arrival 4.Discussion 5.Introduction
A) $5,3,4,1,2$
B) $3,5,4,2,1$
C) $3,5,1,4,2$
D) $5,3,1,2,4$
37. If you write down all the numbers from 1 to 100 , then how many times do you write 3 ?
A) 11
B) 18
C) 20
D)21
38. How many meaningful English words can be formed with the letters ESRO using each letter only once
in each word?
A) One
B) Two
C)Three
D) None
39. Find the missing number $1,2,3,10, ?, 9802$
$\begin{array}{ll}\text { A) } 99 & \text { B) } 199\end{array}$
C) 299
D) 999
40. Grass : Erosion :: Dam : ?
A) Water
B) Freeze
C) Current
D)Rain
41. புலம்புரிச் சங்கம் பொருளோடு முழங்க இவ்வடி இடம்பெற்ற நூல் எது? அசிலப்பதிகாரம் ஆ)மணிமேகலை இ)சீவக சிந்தாமணி ஈவளையாபதி
42. அகநானூற்றில் ஒற்றைப்படை எண்களில் பாடல்கள் இடம் பெறும் திணை யாது? அபாலை ஆ)குறிஞ்சி இ)முல்லை ஈமமருதம்
43. இன்னிலை என்னும் நூலில் உள்ள வெண்பாக்கள் எத்தனை?
அ(45
ஆ140
()150
ஈ) 70
44. கபிலர் எழுதிய சைவத் திருமுறை எது?

அ11 ஆ112 இ)4 世17
45. வீரமாமுனிவர் எழுதிய நூல் எது?

அதொன்னூல் விளக்கம் ஆ)சிதம்பரப் பாட்டியல் இ)வெண்பாப் பாட்டியல் ஈ)முத்து வீரியம்
46. நந்தீசர் சதகம் இயற்றியவர் யார்?

அகுணங்குடி மஸ்தான் சாகிபு ஆ|சேகனாப்புலவர் இ)சர்க்கரைப்புலவர் ஈ)வண்ணக்களஞ்சியப்புலவர்
47. இராமலிங்க அடிகளார் எழுதிய நூல் எது?

அ)மனுமுறை கண்ட வாசகம்
ஆ)ிிருகுடந்தைப் புராணம்
இ)நந்தனார் சரித்திரக் கீர்த்தனை ஈவண்ணச்சரபம் தண்டபாணி சுவாமிகள்
48. பாஷா சம்மேளனம் அமைப்பு எந்த ஆண்டிலிருந்து விருது வழங்கி வருகிறது?
அ)1996 ஆ1999 இ|2013 ஈ)1955
49. பாடம் படித்தான்- என்னும் தொடரில் மறைந்து வரும் வேற்றுமை உருபு யாது?
அ ஐ ஆ)ஆல் இ)கு ஈ)அது
50. மாபாரதம் தமிழ்ப் படுத்தும் மதுராபுரித் தமிழ்ச்சங்கம்- என்னும் அடி இடம் பெற்ற செப்பேடு யாது?

அசின்னமனூர்ச் செப்பேடு
ஆ)வேள்விக்குடிச் செப்பேடு
இ)மேல் சேவூர்ச் செப்பேடு
ஈ)திருமலை நாயக்கர் காலச் செப்பேடு

| ANSWERS: |  |  | GENERAL KNOWLEDGE |  |  |  |  | (25-02-2023) $\downarrow \Delta$ |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| EVERYDAY SCIENCE | $1 . \mathrm{B}$ | 2. D | 3.4 | 4.A | 5.C | 6.B | 7.A | 8.C | 9.A |  |
| GENERAL STUDIES | 11.C | 12.A | 13.C | 14.D | 15.D | 16.D | 17.C | 18.A | 19.A | 20.C |
| CURRENT AFFAIRS | 21.D | 22.D | 23.C | 24.A | 25.C | 26.B | 27.A | 28.B | 29.B | $30 . C$ |
| QUANTITATIVE APTI | TUDE |  | 31.C | 32.C | 33.D | 34.A | 35.A |  |  |  |

31. C Cost Price $(\mathrm{CP})=$ Rs. 1500

Selling Price (SP) = Rs. 1350
Discount $(D)=C P-S P=1500-1350=150$ Discount $\%=(D / C P) \times 100=(150 / 1500) \times 100=10 \%$
32. C Selling Price $(\mathrm{SP})=$ Rs. $2,00,000$

Loss (L) \% $=20 \%$ Cost Price (CP) $=(100 / 100-L) \times$ SP

$$
=(100 / 100-20) \times 200000=(100 / 80) \times 200000=5 \times 50000=250000
$$

33. D Cost Price (CP) = Rs. 220, $\quad$ Discount $(\mathrm{D}) \%=20 \%$

Discount $=(\mathrm{D} \times \mathrm{CP}) / 100=(20 \times 220) / 100=44$
Selling Price $=C P-D=220-44=176$
34. A Actual Price $(\mathrm{AP})=$ Rs. 1250, $\quad$ Additional spent $\operatorname{cost}(\mathrm{ASC})=$ Rs. 250

Cost Price $(\mathrm{CP})=\mathrm{AP}+\mathrm{ASC}=1250+250=$ Rs. 1500
Selling Price (SP) = Rs. 1400. $\quad$ Loss (L) $=\mathrm{CP}-\mathrm{SP}=1500-1400=100$
$\operatorname{Loss} \%=(\mathrm{L} / \mathrm{CP}) \times 100=(100 / 1500) \times 100=20 / 3=6.67 \%$
35. A Selling Price $(\mathrm{SP})=$ Rs. $405 \quad \operatorname{Profit}(\mathrm{P}) \%=20 \%$

Cost Price $=(100 / 100+\mathrm{P}) \times \mathrm{SP}=(100 / 100+20) \times 405$

$$
=(100 / 120)+405=(5 / 6) \times 405=(5 / 2) \times 135=675 / 2=337.5
$$

TEST OF REASONING :
36. C The correct order is :

Arrival Introduction Presentation Discussion Recommendation
$\begin{array}{lllll}3 & 5 & 1 & 4 & 2\end{array}$
37. Clearly, From 1 to 100, there are ten numbers with 3 as the unit's digit - 3, 13, 23, 33, 43, 53, 63, 73, 83, 93 and ten numbers with 3 as the ten's digit - 30, 31, 32, 33, 34, 35, 36, 37, 38, 39.
So, required number $=10+10=20$
38. C Meaningful words are ROSE, SORE and EROS.

Note the meaning of the words SORE and EROS with the help of dictionary.
39. A $1^{2}+1=2, \quad 2^{2}-1=3, \quad 3^{2}+1=10$, Now $10^{2}-1=99, \quad 99^{2}+1=9802$
40. A Here Grass is to Erosion and whereas Dam is to Water.

Since Grass prevents Erosion similarly Dam prevents Water flow.
Hence, Grass : Erosion :: Dam : Water.

## தமிழ் விடைகள்

41.ஆ)மணிமேகலை 42.அ)பாலை 43.அ45 44.அ)11 45 $\quad$ அ)தொன்னூல் விளக்கம்
46.அ)குணங்குடி மஸ்தான் சாகிபு 47.அ)மனுமுறை கண்ட வாசகம் 48.அ11996
49.அ) ஐ 50.அ)சின்னமனூர்ச்ச்ப்பேடு

# VIVEKANANDA COLLEGE, TIRUVEDAKAM WEST GENERAL KNOWLEDGE <br> EVERYDAY SCIENCE <br> 18-03-2023 

1. What are the characteristics of an electric-fuse wire?
a) Low melting point, high specific resistance
b) High melting point, low specific resistance
c) Low melting point, low specific resistance
d) High melting point, high specific resistance
2. What are the brighter areas on the Sun's surface called?
a) Analemma
b) Corona
c) Facula
d) Nanoflares
3. As per CPCB data, which state was the most polluted place in India in 2022?
a) Mumbai
b) New Delhi
c) Varanasi
d) Bangaluru
4. What is the scientific name of Laughing Gas?
a) Nitrous Oxide
b) Phosphorous Pentoxide
c) Sodium Bicarbonate
d) Carbon Tetrachloride
5. Which of the following elements is identified by the 7th group and th period of the modern periodic table?
a) Copper
b) Iron
c) Manganese
d) Chromium
6. Memory loss would most likely be due to a malfunction of which part of the brain?
a) Medulla
b) Cerebellum
c) Cerebrum
d) Pons
7. Human sperm moves with the help of which of the following?
a) cilia
b) flagellum
c) basal body
d) nucleosome
8. Which of the following is not matched correctly?
a) Roothair-absorption
b) Flowers-reproduction
c) Stem-grow towards light
d) Chlorophyll-respiration
9. Which of the following vitamins help in the absorption of calcium?
a) Vitamin A
b) Vitamin B
c) Vitamin C
d) Vitamin D
10. Watering hole, which was seen sometimes in the news, is associated with which field?
a) construction
b) artificial intelligence
c) cyber-attack
d) finance

## GENERAL STUDIES

11. World's largest religion (population wise) is $\qquad$ $:$
[A] Hindu
[B] Muslim
[C] Christian
[D] Buddhists
12. Who is known as the Father of Tamil literature?
[A] Nakkirar
[B] Pushyamitra
[C] Aggatiyam
[D] Agastaya
13. When did the Vira Nirvana Samvat era begin?
[A] 366 BCE
[B] 554 BCE
[C] 437 BCE
[D] 527 BCE
14. Among the five monolithic rathas of Pallavas at Mahabalipuram, the largest is $\qquad$ ?
[A] Arjuna
[B] Bhima
[C] Dharmaraja
[D] Draupadi
15. Rouff is a folk dance. It has its origin in which of the following states?
[A] Himachal Pradesh
[B] Assam
[C] Mizoram
[D] Kashmir
16. Alha is a folk music associated with which state of India?
[A] Maharashtra
[B] West Bengal
[C] Uttarakhand
[D] Madhya Pradesh
17. Jallikatu is celebrated in which state of India?
[A] Tamil Nadu
[B] Kerala
[C] Karnataka
[D] Telangana
18. Who started the Ganesh Chaturthi festival?
[A] Bal Gangadhar Tilak
[B] Lala Lajpat Rai
[C] Bipin Chandra Pal
[D] Mahatma Gandhi
19. In which year, print media started in India?
[A] 1970
[B] 1871
[C] 1780
[D] 1601
20. Who started Young India?
[A] Mk Gandhi
[B] GK Gokhale
[C] Annie Besant
[D] B.G Tilak

## CURRENT AFFAIRS

21. Which city has been renamed as 'Chatrapati Sambhajinagar'?
[A] Pune
[B] Aurangabad
[C] Nashik
[D] Ahmed Nagar
22. Which is the first platform to launch 'UPI LITE payments'?
[A] Google Pay
[B] Mi Pay
[C] Paytm Payments Bank
[D] Artel Payments Bank
23. The second Semicon India Future Design Roadshow was recently launched in which city?
[A] Hyderabad
[B] Chennai
[C] Bengaluru [ D] Gandhi Nagar
24. Elephant Conservation Network (ECN) has been recently formed in which state/UT?
[A] Assam
[B] Madhya Pradesh
[C] Kerala
[D] Karnataka
25. Shivamogga Airport was recently inaugurated in which state/UT?
[A] New Delhi
[B] Karnataka
[C] Odisha
[D] West Bengal
26. Gyalsung Infra Project, to which India provided a grant of Rs 2 billion, is associated with which country?
[A] Sri Lanka
[B] Nepal
[C] Bhutan
[D] Myanmar
27. MRSAM weapon system has been developed by which organisation?
[A] HAL
[B] BEL
[C] ORDO
[D] ISRO
28. Which state is the host of the 'Global Responsible Tourism Summit'?
[A] Sikkim
[B] Kerala
[C] Goa
[D] Himachal Pradesh
29. What is the rank of India in the International Intellectual Property Index 2023 ?
[A] 26
[B] 32
[C] 42
[D] 55
30. Which neighbouring country of India signed MOU with ISA to increase use of solar energy?
[A] Sri Lanka
[B] Nepal
[C] Bangladesh
[D] Myanmar

## QUANTITATIVE APTITUDE

31. $1+2+3+\ldots+\mathrm{K}=325$, then find $1^{3}+2^{3}+3^{3}+\ldots+\mathrm{k}^{3}$
a) 105625
b) 52065
c) 67714
d) 12730
32. Supposing a clock takes 7 seconds to strike 7 , how long does it take for the same clock to strike 10 ?
a) 16.5 seconds
b) 14.5 seconds
c) 12.5 seconds
d) 10.5 seconds
33. A metallic sphere of radius 16 cm is melted and recast into small spheres each of radius 2 cm . How many small spheres can be obtained?
a) 496
b) 512
c) 672
d) 768
34. A garden roller whose length is 3 cm long and whose diameter is 2.8 m is rolled to level a garden. How much area will it cover in 8 revolutions?
a) $212.2 \mathrm{~m}^{2}$
b) $252.2 \mathrm{~m}^{2}$
c) $211.2 \mathrm{~m}^{2}$
d) $211.5 \mathrm{~m}^{2}$
35. If the sides of the triangle are $3 \mathrm{~cm}, 4 \mathrm{~cm}$ and 5 cm , then the area is
a) $3 \mathrm{~cm}^{2}$
b) $6 \mathrm{~cm}^{2}$
c) $9 \mathrm{~cm}^{2}$
d) $12 \mathrm{~cm}^{2}$

## TEST OF REASONING

36. A bag contains $50 \mathrm{P}, 25 \mathrm{P}$ and 10 P coins in the ratio 5: 9: 4, amounting to Rs. 206. Find the number of coins of each type respectively.
A) $360,160,200$
B) $160,360,200$
C) $200,360,160$
D) $200,160,300$
37. Look at this series: $2,1,(1 / 2),(1 / 4), \ldots$ What number should come next?
a) $1 / 3$
b) $1 / 8$
c) $2 / 8$
d) $1 / 16$
38. Which word does NOT belong with the others?
a)inch
b)ounce
c) centimeter
d) yard
39. Arrange the words given below in a meaningful sequence.

| 1. Key | 2. Door | 3. Lock |
| :--- | :--- | :--- |
| 4. Room | 5. Switch on |  |

a) $5,1,2,4,3$
b) $4,2,1,5,3$
c) $1,3,2,4,5$
d) $1,2,3,5,4$
40. Choose the word which best expresses the meaning of the given word. BRIEF
a)Limited
b)Small
c)Little
d)Short

| தமிழ் |  |  |
| :---: | :---: | :---: |
| 41. 'புண்’ என்றுவள்ளுவர் | எதளைக் குறிப்படுகிறார்? |  |
| அ.ஊழ் | ஆ.புலால் இ.கண் | ஈ.நோய் |

42. 'அறம் பெருகும் வழி' எனத் திருவள்ளுவர் எதனைக் கூறுகின்றார்? அ.கோபச்சொற்களைக் கூறுதல் ஆ.புகழ்ச்சொற்களைக் கூறுதல் இ.இனியசொற்களைக் கூறுதல் ஈ.பழியுடைச் சொற்களைக் கூறுதல்
43. நீதிநநறிபுடன் மக்களைக் காப்பாற்றும் ஆட்சியாளரைவள்ளுவர் எவ்வாறுஅழைக்கிறார்? அ.மக்கட்குஉயி்ர் ஆ.மக்கட்குஅமிழ்து ஈ.மக்கட்கு இறை ஈக்கட்குஉடல்
44. ஒருவரின் நகைக்கும் உவகைக்கும் பகையாக இருப்பதுளதுளன்றுவள்ளுவர் குறிப்பிடுகின்றார்? அ.அச்சம் ஆ.அழூக்காறு இ.அழூகை ஈ.சினம்
45. தமிழ்ந்ாுுஅரசின் சமுதாயநலஹுக்காகஆற்றியசேவைக்குசிறந்த மூன்றாம் பாலினத்தவர் விருதுபெற்றுர்? அ.பானி ஆ.கிரேஷ்பாணு இ.தஷா ஈ.பஷம
46. 1891இல் சுதேசமித்ரன் என்றடபயரில் தமிழில் ஒருதேசியபருவ இதழைத் தொடங்கியவர் ------------அ.கோகலே ஆ.ஜி.சப்ரமணியம் இ.டி.முத்துசாமி ஈ.பி.ரங்கையா
47. திராவிடமகாஜன சபையைநநறுவியவர் யார்? அ.சர்.பி.டி.தியாகராயர், ஆ.அயோத்திதாசர் பண்டிதர இ.ஜோதிபாபூலே ஈ.அய்யாவைகுந்த்்
48. ஜைன,புத்தமத நூல்கள் முதன் முதலில் எந்தமொழியில் எழுதப்பட்டன? அ.பிராகிருதம்,பாலி ஆ.சீனம்,தமிழ் இ.கிரேக்கம்,ஆங்கிலம் ஈ.இலத்தீன்,அரெபியம்
49. ‘இசைநுணுக்கம்’ என்னும் இசை இலக்கண நூல் யாருடையஆட்சிக் காலத்தில் அங்கேற்றப்பெற்றது? அ.சேரர் ஆ.சோழர் இ.பல்லவர் ஈ.பாண்டியர்
50. "மானின் விடுதலை" கதைப் பாடலின் ஆசிரியர் யார்? அ.அழ.வள்ளியப்பா ஆ.கவிமணி இ.நாமக்கல் ஈ.தமிழழகன்

## ANSWERS: GENERAL KNOWLEDGE

(18-03-2023)
EVERYDAY SCIENCE 1.B $\begin{array}{llllllllllll} & \text { 2.C } & \text { 3.B } & \text { 4.A } & \text { 5.C } & \text { 6.C } & \text { 7.B } & \text { 8.D } & \text { 9.D } & \text { 10.C } & \Delta & \nabla\end{array}$
$\begin{array}{lllllllllll}\text { GENERAL STUDIES } & 11 . \mathrm{C} & 12 . \mathrm{D} & 13 . \mathrm{D} & 14 . \mathrm{C} & 15 . \mathrm{D} & 16 . \mathrm{D} & \text { 17.A } & 18 . \mathrm{A} & 19 . \mathrm{C} & \text { 20.A }\end{array}$
$\begin{array}{lllllllllll}\text { CURRENT AFFAIRS } & 21 . B & 22 . C & 23 . C & 24 . A & 25 . B & 26 . C & 27 . C & 28 . B & 29 . C & 30 . C\end{array}$
QUANTITATIVE APTITUDE: $\begin{array}{llllll} & 31 . A & 32 . \mathrm{D} & 33 . \mathrm{B} & 34 . \mathrm{C} & 35 . \mathrm{B}\end{array}$
31.A $1+2+3+\ldots+\mathrm{K}=325 \quad 1^{3}+2^{3}+3^{3}+\ldots+\mathrm{k}^{3}=(1+2+3+\ldots+\mathrm{K})^{2}=325^{2}=105625$
32.D Clearly, seven strikes of a clock have 6 intervals while 10 strikes have 9 intervals.
$\therefore$ Required time $=([7 / 6] \times 9)$ seconds $=10.5$ seconds.
33.B Volume of sphere $=4 / 3 \pi \mathrm{r}^{3}$ cubic units.

Volume of sphere with 16 cm radius $=($ Volume of sphere with 2 cm radius) n
$4 / 3 \times \pi \times 16 \times 16 \times 16=(4 / 3 \times \pi \times 2 \times 2 \times 2) \times n$
By simplification $16 \times 16 \times 16=(2 \times 2 \times 2) \mathrm{n} \quad$ By simplification $512=\mathrm{n}$.
The number of spheres could be obtained is 512 .
34.C We know that, $1=3 \mathrm{~m}$ diameter $=2.8 \mathrm{~m}$, then, radius $=2.8 / 2=1.4 \mathrm{~m}$.

So, we get, circumference of the circle $=2 \pi r=2 \times \frac{22}{7} \times 1.4=2 \times \frac{22}{7} \times \frac{14}{10}=8.8 \mathrm{~m}$
Area of the circle $=$ length x circumference $=3 \times 8.8=26.4 \mathrm{~m}^{2}$
Area covered in 8 revolutions $=26.4 \times 8=211.2 \mathrm{~m}^{2}$
35.B Given: the sides of a triangle are $3 \mathrm{~cm}, 5 \mathrm{~cm}$ and 4 cm . To find out: Area of triangle

Solution:- The lengths of the sides are $\mathrm{a}=3 \mathrm{~cm}, \mathrm{~b}=5 \mathrm{~cm}, \mathrm{c}=4 \mathrm{~cm} . \quad \therefore \mathrm{s}=(\mathrm{a}+\mathrm{b}+\mathrm{c}) / 2=(3+5+4) / 2 \mathrm{~cm}=6 \mathrm{~cm}$
We use the formula, $\Delta=$ Square root of $[\mathrm{s}(\mathrm{s}-\mathrm{a})(\mathrm{s}-\mathrm{b})(\mathrm{s}-\mathrm{c})]=$ Square root of $[6(6-3)(6-5)(6-4)] \mathrm{cm}^{2}$
$=$ Square root of $[6 \times 3 \times 1 \times 2] \mathrm{cm}^{2}=6 \mathrm{~cm}^{2}$

TEST OF REASONING : $\quad 36 . \mathrm{C}$ 37.B $38 . \mathrm{B} \quad$ 39.C $\quad$ 40.D
36.C let ratio be $x$. Hence no. of coins be $5 x, 9 x, 4 x$ respectively Now given total amount $=$ Rs. 206
$\Rightarrow(.50)(5 \mathrm{x})+(.25)(9 \mathrm{x})+(.10)(4 \mathrm{x})=206$ we get $\mathrm{x}=40$
$\Rightarrow$ No. of 50 p coins $=200 \Rightarrow$ No. of 25 p coins $=360$ => No. of 10 p coins $=160$
37.B This is a simple division series; each number is one-half of the previous number.

In other terms to say, the number is divided by 2 successively to get the next result.
38.B An ounce measures weight; the other choices measure length.
39.C The correct order is :

| Key | Lock | Door | Room | Switch on |
| :---: | :---: | :---: | :---: | :---: |
| 1 | 3 | 2 | 4 | 5 |

40.D


# VIVEKANANDA COLLEGE, TIRUVEDAKAM WEST GENERAL KNOWLEDGE <br> <br> EVERYDAY SCIENCE <br> <br> EVERYDAY SCIENCE <br> 25-03-2023 

1. Which one of the following elements the drum of a Photostat machine is made up of?
(a) Aluminium
(b) Selenium
(c) Barium
(d) Caesium
2. What kind of energy is stored in the spring of a watch?
(a) Kinetic
(b) Potential
(c) Heat
(d) Chemical
3. Which of these physical quantities is a vector quantity?
(a) Temperature
(b) Speed
(c) Work (d)Gravitational Intensity
4. APJ Abdul Kalam Satellite Launch Vehicle Mission-2023 was launched from which state?
(a) Maharashtra
(b) Goa
(c) Tamil Nadu
(d) Karnataka
5. Which of the followings gives hardness to stainless steel?
(a) Carbon
(b) Lead
(c) Zinc
(d) Tin
6. Which among the following blood protein regulates the amount of water in plasma?
(a) Globulin
(b) Albumin
(c) Fibrin
(d)Fibulin
7. Human body has how many vertebrae?
(a) 32
(b) 35
(c) 33
(d) 47
8. Seaweeds are an important source of which of the following?
(a) Iron
(b) Chlorine
(c) Bromine
(d) Iodine
9. Which one of the following organs converts glycogen into glucose and purifies the blood?
(a) Spleen
(b) Lungs
(c) Liver
(d) Kidney
10. Which is also known as the master gland of our body?
(a) Pineal gland
(b) Thyroid gland
(c) Adrenal gland
(d) Pituitary gland

## GENERAL STUDIES

11. The most dominant contribution to GDP in recent year is
a) agriculture
b) industry
c) service
d) export
12. Which one of the following is not a strike under Industrial disputes Act?
a) Stay in strike
b) Hunger strike
c) Sympathetic strike
d) Demonstration
13. The objectives of JandhanYojana is
a) Financial inclusion
b) Reducing regional disparities c) Social exclusion
d) Population control
14. Which year Video Cassette Recorder which entertained mankind was introduced?
a) 1940
b) 1945
c) 1950
d) 1955
15. World water Day is observed on
a) March 22
b) June 5
c) September 10
d) December 22
16. The first financial institution set-up in India
a) IDBI
b) ICICI
c) IRBI
d) IFCI
17. Income Tax Act come into force with effect from $1^{\text {st }}$ April
a) in 1956
b) in 1962
c) in 1961
d) in 1960
18. Largest Banana producing state in India is
a) Tamil Nadu
b) West Bengal
c) Andhra Pradesh
d) Delhi
19. Dowry prohibition act was passed in the year
a) 1963
b) in 1962
c) in 1961
d) in 1960
20. With reference to plastic packaging, what does EPR stand for?
a) Extended Producer Responsibility
b) Environment Protection Responsibility
c) Ecological Protection Role
d) Epoxy Poly Rehydroxy-sulphate

## CURRENT AFFAIRS

21. Unique Identification Authority of India (UIDAI) is a statutory body functioning under which Union Ministry?
[A] Ministry of Electronics and Information Technology
[B] Ministry of Home Affairs
[C] Ministry of External Affairs
[D] Ministry of Defence
22. S-400 Triumf missile system is developed by which country?
[A] USA
[B] Russia
[C] Israel
[D] France
23. What is the theme of National Safety Day 2023?
[A] Our Aim - Zero Harm
[B] Our Aim- Zero Accident
[C] Health and Safety
[D] Elimination of Occupational Hazard
24. Yaoshang Festival is celebrated in which state?
[A] Manipur
[B] Assam
[C] West Bengal
[D] Odisha
25. Which Union Ministry is set to host the 'World Food India-2023' event?
[A] Ministry of Agriculture
[B] Ministry of Food Processing Industries
[C] Ministry of Rural Development
[D] Ministry of Housing and Urban Affairs
26. Indian defence forces suspended operations of which type of helicopters after the incident of sudden loss of power?
[A] Dhruv
[B] Virat
[C] Akash
[D] Kattabomman
27. Katarniya Ghat Wildlife Sanctuary is located in which state/UT?
[A] Karnataka
[B] Telangana
[C] Uttar Pradesh
[D] Gujarat
28. Who is the author of Pookkuzhi, whose translation was featured in the longlist for the International Booker Prize 2023?
[A] Perumal Murugan
[B] Namita Gokhale
[C] Anees Salim
[D] Chitra Mudgal
29. Who was appointed as the chairman of Pension Fund Regulatory and Development Authority (PFRDA)?
[A] Deepak Mohanty
[B] Sarad Kumar Hota
[C] M K Jain
[D] Urjit Patel
30. Mukhyamantri Ladli BahnaYojana was launched by which state?
[A] Uttar Pradesh
[B] Madhya Pradesh
[C] Telangana
[D] Goa

## QUANTITATIVE APTITUDE

31. Three candidates contested an election and received 1136, 7636 and 11628 votes respectively. What percentage of the total votes did the winning candidate get?
A. $57 \%$
B. $60 \%$
C. $65 \%$
D. $90 \%$
32. Find a positive number which when increased by 17 is equal to 60 times the reciprocal of the number.
A. 3
B. 10
C. 17
D. 20
33. The average of 20 numbers is zero. Of them, at the most, how many may be greater than zero?
A. 0
B. 1
C. 10
D. 19
34. The fourth proportional to $5,8,15$ is:
A. 18
B. 24
C. 19
D. 20
35. In a camp, there is a meal for 120 men or 200 children. If 150 children have taken the meal, how many men will be catered to with remaining meal?
A. 20
B. 30
C. 40
D. 50

## TEST OF REASONING

36. Choose the word that is a necessary part of the underlined word Language
a) Tongue
b) Slang
c) Writing
d) Words
37. Choose the word which best expresses the meaning of the given word. EMBEZZLE
a) Misappropriateb) Balance
c) Remunerate
d) Clear
38. Find the odd one out in this series: $8,27,64,100,125,216,343$
a) 27
b) 100
c) 125
d) 343
39. Guide is to direct as reduce is to
a) Decrease
b) Maintain
c) Increase
d) Preserve
40. JAK, KBL, LCM, MDN,
a) OEP
b) NEO
c) MEN
d) PFQ

தமிழ்
41. முதன் முதலில் யாருடைய நூல்கள் நாட்டுடைமையாக்கப்பட்டன? அபாரதியார் ஆபாரதிதாசன் இ)அரசஞ்சண்முகனார் ஈ)கு.ப.சேது அம்மாள்
42. தமிழ்ப் பல்கலைக்கழக இராசராசன் பரிசு பெற்ற கலைஞர் மு கருணாநிதியின் நூல் எது? அ)தென்பாண்டிச் சிங்கம் ஆ)ரோமாபுரிப் பாண்டியன் இ)பொன்னர் சங்கர் ஈ)புயல்
43. சீகன் பால்கு எந்த நாட்டைச் சார்ந்தவர்? அஇத்தாலி ஆஜெர்மன் இ)அயர்லாந்து ஈஇங்கிலாந்து
44. சின்னச் சீறா எழுதியவர் யார்? அஉமறுப் புலவர் ஆஅகமது மரைக்காயர் இ)குணங்குடி மஸ்தான் ஈ)சவ்வாதுப் புலவர்
45. பாவைப்பாட்டு என்னும் நூல் எந்தச் சமணர் மீது பாடப்பட்டது? அஅவிநயனார் ஆ)அவிரோதிநாதர் இ)மயிலை நாதர் ஈ)உதீசித் தேவர்
46. முதல் உலகத் தமிழ் மாநாடு நடைபெற்ற ஆண்டு யாது? அ)1968 ஆ)1970 இ)1974 ஈ)1966
47. கடைச்சங்கத்தை நிறுவிய மன்னன் யார்? அகாய்ச்சின வழுதி ஆ)கடுங்கோன் இ)வெண்டேர்ச்செழியன் ஈ)முடத்திருமாறன்
48. கீழ்க்கண்டவற்றுள் உயர்திணை வினைமுற்றுச் சொல் யாது? அவந்தது ஆவந்தன இ)வந்தவள் ஈவந்தாள்
49. கீழ்க்கண்டவற்றுள் சினைப் பெயர் யாது? அ)மரம் ஆஆடு இ)மனிதன் ஈகிளை
50. கழை என்னும் சொல்லின் பொருள் யாது? அ)மூங்கில் ஆஅழகு இ)வேண்டாத செடி ஈ)அன்பு

# ANSWERS: GENERAL KNOWLEDGE <br> (25-03-2023) <br>  <br> GENERAL STUDIES 11.C $\begin{array}{llllllllll} & 12 . \mathrm{D} & 13 . \mathrm{A} & 14 . \mathrm{C} & 15 . \mathrm{A} & 16 . \mathrm{D} & 17 . \mathrm{B} & 18 . \mathrm{A} & 19 . \mathrm{C} & 20 . \mathrm{A}\end{array}$ <br> $\begin{array}{llllllllllllll}\text { CURRENT AFFAIRS } & 21 . A & 22 . B & 23 . A & 24 . A & 25 . B & 26 . A & 27 . C & 28 . A & 29 . A & 30 . B\end{array}$ 

21. A The Unique Identification Authority of India (UIDAI) has recently launched a new security
mechanism for Aadhaar-based fingerprint authentication. UIDAI is a statutory body that was established by the Indian Government in January 2009. It comes under the aegis of the Ministry of Electronics and Information Technology.
22. B The S-400 Triumf is a surface-to-air missile system that was developed in Russia in the 1990s as an upgrade to the S-300 family.The system was first put into service on April 2007. The S-400 Triumf has advanced features such as a long-range, high-altitude interception capability, and the ability to track multiple targets simultaneously
23. A The National Safety Day is celebrated on March 4 across India every year. It aims to raise awareness about the importance of health and safety at workplaces and create a culture of safety among the general public.The National Safety Day commemorates the establishment of the National Safety Council (NSC) of India in 1966. It was observed for the first time in 1972. The theme for National Safety Day 2023 is 'Our Aim - Zero Harm'
24. A Yaosang is one of the key festivals in Manipur. It is celebrated over five days during the full moon day of the Lamda month (February-March).The festival is part of the indigenous traditions of the Meitei people. The celebrations include a wide range of activities such as the Thabal Chongba, a traditional Manipuri dance, sports competitions like Mukna Kangjei (a combination of hockey and wrestling), and Pana Sankirtana, a form of traditional music.
25. B The Ministry of Food Processing Industries will host the second edition of 'World Food India-2023' in November 2023 in New Delhi.WFI-2023 will focus on promoting India as a global food processing hub, highlighting culinary diversity, attracting investment, and exploring business opportunities. Five key elements of WFI-2023 include Millets, Innovation and Sustainability, White Revolution 2.0, Making India an export hub, and Technology and Digitization.
26. A Indian Navy ALH Dhruv experienced a sudden loss of power and rapid loss of height, on a routine flying mission off Mumbai.Following the incident, Indian defence forces suspended operations of the ALH until the cause of the technical failure is established by investigators. The ALH Dhruv helicopters serve various purposes for the Indian defence forces, including transportation of personnel and equipment.
27. C The Katarniya Ghat Wildlife Sanctuary is located in the Terai of Bahraich district in Uttar Pradesh, India. It forms an important link between the tiger habitats of Dudhwa and Kishanpur in India and Nepal. The Katarniya Ghat Wildlife Sanctuary provides a refuge for several threatened species such as the gharial, tiger, rhino, Gangetic dolphin, Swamp deer, Hispid hare, Bengal florican, the White-backed and Long-billed vultures. A rare albino deer was found spotted recently in this sanctuary
28. A Pyre, the English translation of writer Perumal Murugan's Tamil novel Pookkuzhi, has figured in the longlist for the International Booker Prize 2023.The translator is Aniruddhan Vasudevan, who also translated Perumal Murugan's Maathorubhagan into English as One Part Woman. This is the first Tamil novel that has found a place in the International Booker longlist.
29. A The government has appointed Deepak Mohanty as chairman of Pension Fund Regulatory and Development Authority (PFRDA). He replaced Supratim Bandyopadhyay, whose term ended in January. Prior to this, Mohanty, a former executive director of the Reserve Bank of India (RBI), served as a member of PFRDA.
30. B Mukhyamantri Ladli BahnaYojana was launched by the Madhya Pradesh Government to provide Rs. 1,000 monthly aid to women.It is currently increasing women's usage of bank accounts in Jabalpur district. The application for this scheme is set to start on March 25.

## QUANTITATIVE APTITUDE: 31.A 32.A 33.D 34.B 35.B

31. A Total number of votes polled $=(1136+7636+11628)=0400$. Required percentage $=[(11628) /(20400)] \times 100 \%=57 \%$
32. A Let the number be $x$. Then $x+17=60 / x, \quad x^{2}+17 x-60=0, \quad(x+20)(x-3)=0, \quad x=3$
33. D Average of 20 numbers $=0 ., \quad$ Sum of 20 numbers $(0 \times 20)=0$.

It is quite possible that 19 of these numbers may be positive and if their sum is $a$ then 20 th number is $(-a)$.
34. B Let the fourth proportional to $5,8,15$ be $x$. Then, $5: 8: 15: x \quad 5 x=(8 \times 15), \quad \mathrm{X}=(8 \times 15) / 5=24$
35. B There is a meal for 200 children. 150 children have taken the meal.

Remaining meal is to be catered to 50 children. Now, 200 children $=120 \mathrm{men}$.
1 Children $=120 / 200, \quad 50$ Children $=(120 / 200) * 50=30$ men

## TEST OF REASONING : <br> 36.D 37.A 38.B 39.A 40.B

36. (d) Words are a necessary part of language. Slang is not necessary to language (choice b). Not all languages are written (choice c). Not all languages are spoken (choice a).
37. (a) Part of Speech: verb Definition: steal money, often from employer

Synonyms: abstract, defalcate, filch, forge, loot, misapply, misappropriate, misuse, peculate, pilfer, purloin, put hand in cookie jar, put hand in till, skim, thieve Antonyms: compensate, give, pay, reimburse, return
38. (b) The pattern is $2^{3}, 3^{3}, 4^{3}, 5^{3}, 6^{3}, 7^{3}$. But, 100 is not a perfect cube.
39. (a) Guide and direct are synonyms, and reduce and decrease are synonyms. The answer is not choice $b$ or $d$ because neither means the same as reduce. (Choice $c$ ) is incorrect because increase is the opposite of reduce.
40. (b) This is an alternating series in alphabetical order. The middle letters follow the order ABCDE. The first and third letters are alphabetical beginning with J. The third letter is repeated as a first letter in each subsequent three-letter segment.
தமிழ் விடைகள்: 41.அபாரதியார் 42.அதென்பாண்டிச் சிங்கம் 43.ஆ)ஜெர்மன் 44.ஆ)அகமது மரைக்காயர்
45.இ)மயிலை நாதர் 46.ஈ)1966 47.ஈ)முடத்திருமாறன் $\quad 48 . ஈ$ (வந்தாள் $\quad 49 . ஈ$ )கிளை $\quad$ 50.அ)மூங்கில்

## EVERYDAY SCIENCE

1. The only sphere which contains all clouds in the atmosphere
a) Mesosphere
b) Exosphere
c) Stratosphere
d) Troposphere
2. In petrol bunks, the tyre pressure of vehicles is measure in a unit called $\qquad$ .
a) Cd
b) Psi
c) mol
d) A
3. Lime water has a pH value
a) Less than 7
b) More than 12
c) Zero
d) Equal to 12
4. The chemical used to identify drinkers in alcohol test
a) Copper sulphate
b) Potassium dichromate
c) Sodium carbonate
d) Potassium permanganate
5. The pressure exerted by man on earth is minimum when he
a) Sits
b) Stands on one feet
c) Stands on both feet
d) Lies on ground
6. $\qquad$ prod
b) Liver
c) Intestinal glands
d) Renin
7. The ___ has a role in sleep cycle in human beings.
a) Cerebrum
b) Spinal Cord
c) Pons
d) Hypothalamus
8. The toxic substance present in the seeds of apple and cherry is
a) Ascorbic acid
b) Acetic acid
c) Amino acid
d) Prussic acid
9. Roots are absent in $\qquad$ plant.
a) Hydrilla
b) Wolffia
c) Lotus
d) Eichhornia
10. The hormone present in the liquid endosperm of coconut is
a) Auxin
b) Gibberellin
c) Cytokinin
d) Ethylene

## GENERAL STUDIES

11. The most dominant contribution to GDP in recent year is
a) Agriculture
b) industry
c) service
d) export
12. Which year Video Cassette Recorder which entertained mankind was introduced?
b) 1940
b) 1945
c) 1950
d) 1955
13. Income Tax Act come into force with effect from 1 st April
c) in 1956 b) in 1962
c) in 1961
d) in 1960
14. With reference to plastic packaging, what does EPR stand for?
a) Extended Producer Responsibility
b) Environment Protection Responsibility
c) Ecological Protection Role
d) Epoxy Poly Rehydroxy-sulphate
15. World's largest religion (population wise) is $\qquad$ :
a) Hindu
b) Muslim
c) Christian
d) Buddhists
16. Among the five monolithic rathas of Pallavas at Mahabalipuram, the largest is $\qquad$ ?
a) Arjuna
b) Bhima
c) Dharmaraja
d) Draupadi
17. Who started the Ganesh Chaturthi festival?
a) Bal GangadharTilak
b)LalaLajpatRai
c) Bipin Chandra Pal
d) Mahatma Gandhi
18. Development expenditure of the Central government does not include
a) Defence expenditure
b) Expenditure on economic services
c) Expenditure on social and community services
d) Grant to states
19. Gilt-edged market means
a) Bullion Market
b) Market of Government Securities
c) Market of Guns
d) Market of Pure Metals
20. The currency convertibility concept in its original form originated in
a) Wells Agreement
b) Bretton Woods Agreement
c) Taylors Agreement
d)None of the above

## CURRENT AFFAIRS

21. 'MIDH' Scheme is associated with which field?
[A] Culture
[B] Horticulture
[C] Finance
[D] Research
22. The Unique Land Parcel Identification Number (ULPIN) is an alpha-numeric number with how many digits?
[A] 10
[B] 12
[C] 14
[D] 18
23. Which institution released the 'Global Report on Sodium Intake Reduction'?
[A] WHO
[B] UNICEF
[C] NITI Aayog
[D] World Bank
24. Silicon Valley Bank, which was shut down recently, is based in which country?
[A] Russia
[B] Ukraine
[C] USA
[D] UK
25. TLMAL is a joint venture between India's Tata Group and which country's counterpart?
[A] Israel
[B] France
[C] USA
[D] Japan
26. Who is the first woman in India to receive the International Union of Pure and Applied Chemistry (IUPAC) award?
[A] Jyotirmayee Mohanty
[B] Ritu Karidhal
[C] Tessy Thomas
[D] Minal Rohit
27. Which country has appointed Eric Garcetti as its ambassador to India?
[A] Russia
[B] Ukraine
[C] USA
[D] UK
28. 'TV-D1' is the first test vehicle demonstration of which mission of India?
[A] Gaganyaan
[B] Samudrayaan
[C] Aditya
[D] Venus Mission
29. Which is the first NATO country to deliver fighter jet to the warring country?
[A] India
[B] Pakistan
[C] Poland
[D] Finland
30. 'Governor of the Year' Award for 2023 was conferred recently to the Governor of which country?
[A] Sri Lanka
[B] India
[C] Bangladesh
[D] United Kingdom

## QUANTITATIVE APTITUDE

31. A container contains 40 litres of milk. From this container 4 litres of milk was taken out and replaced by water. This process was repeated further two times. How much milk is now contained by the container?
a) 26.34 litres
b) 27.36 litres
c) 28 litres
d) 29.16 litres
32. 8 men and 14 women are working together in a field. After working for 3 days, 5 men and 8 women leave the work. How many more days will be required to complete the work?
I ) 19 men and 12 women together can complete the work in 18 days.
II ) 16 men can complete two-third of the work in 16 days.
III) In 1 day, the work done by three men in equal to the work done by four women
a) I) only
b) II only
c) III only
d) I or II or III only
33. January 1, 2008 is Tuesday. What day of the week lies on Jan 1, 2009?
a)Monday
b) Wednesday
c) Thursday
d) Sunday
34. In the first 10 overs of a cricket game, the run rate was only 3.2. What should be the run rate in the remaining 40 overs to reach the target of 282 runs?
a) 6.25
b) 6.5
c) 6.75
d) 7
35. Find the odd man out. 8, 27, 64, 100, 125, 216, 343
a) 27
b) 100
c) 125
d) 343

## TEST OF REASONING

36. If 91 is 9,10 is 0,24 is 8 , then 32 is $\qquad$ :
a) 2
b) 11
c) 6
d) 5
37. Vinith is taller than Vijay. Saran is taller than Vinith and Sundaresan. Vijay is taller than Praveen and Praveen is not the shortest. Then who is the shortest?
a)Vijay
b)Saran
c)Vinith
d)Sundaresan
38. If ACE : FHJ, then OQS : $\qquad$ -.
a)RTU
b)TVX
c)PRT
d)TUW
39. Pick the odd one out based on their annual salary recently released by BCCI:
a)Rohit Sharma b)Jasprit Bumrah c)Ravindra Jadeja
d)Shreyas Iyer
40. 'Cub' is related to 'Lion' in the same way as 'Joey' is related to a)Horse b)Kangaroo c)Rabbit d)Mouse

## தமிழ்

41. மயங்கொலிஎழுத்துகளின் எண்ணிக்கையாது?
அ. 8 ஆ. 9 இ. 10 ஈ. 11
42. திருக்கோவிலூர் பகுதியைஆண்டமன்னன் யார்? அ.பாரி ஆ.காரி இ.ஓரி ஈ.அதியன்
43. கரிகாற் சோழன் ஆட்சிக்காலத்தில்நடைபெற்றமுதல் பெரும் போர் எது? அ.காந்தளூர்ச்சாலைப்போர் ஆ.ஈழப்போர் இ.வெண்ணிப்போர் ஈ.வேங்கிப்போா்
44. எட்டுத்தொகை நூல்களுள் பாண்டியர்களைப் பற்றிமட்டுமேபாடும் நூல் எது? அ.பதிற்றுப்பத்தும் நற்றிணையும் ஆ.குறுந்தொகையும்பதிற்றுப்பத்தும் இ.குறுந்தொகை ஈ.கலித்தொகையும் பரிபாடலும்
45. சைவசமயக் குரவர்களில் வடமொழியும் தமிழும் நன்குகற்றுத்தேர்ந்தவர் ---அ.திருஞானசம்பந்தர் ஆ.திருநாவுக்கரச்் இ.மாணிக்கவாசகர் ஈ.சுந்தரர்
46. தென்னிந்தியநலஉரிமைச் சங்கம் தனதுகொள்கைகளைமக்களிடையே பரப்ப எத்தனை பத்திரிக்கைகளை நடத்தியது? அ. 3

ஆ. 2
இ. 1
ஈ. 4
47. பாரதியார் பிறந்தஎட்டயபுரத்தில் முதன் முதலில் மதியஉணவுத் திட்டத்தைத் தொடங்கிவைத்தவர் யார்? அ.மு.கருணாநிதி ஆ.காமராசர் இ.எம்.ஜி.ஆர் ஈ.ஜெயலலிதா
48. அச்சு இயந்திரத்தின் மூலம் பெரியபுராணம் போன்றசைவஇலக்கியங்களைப் பதிப்பித்தவர்? அ.திருபூர்ணலிங்கம் ஆ.மகாவித்வான்ராகவையங்கார் இ.ஆறுமுகநாவலர் ஈ.மு.வ
49. நான் கொல்லுகிறேன் என்றுஎண்ணுவதும் நான் கொல்லப்படுகிறேன் என்று எண்ணுவதும் இரண்டும் ஆறியாமை என்று கூறுவது------?
அ.விஷ்ணுபுராம் ஆ.ஸீமத்பாகவதம் இ.பகவத்கீதை ஈ.மகாபாரதம்
50. எந்தஒருதேசியதிருவிழாபெண் தெய்வங்களுக்காகக் கொண்டாடப்படுகிறது? அ.தீபாவளி ஆ.நவராத்திரி இ.பொங்கல் ஈ.ஓணம்

21) The Mission for Integrated Development of Horticulture (MIDH) is centrally sponsored scheme aimed at promoting the comprehensive development of the horticulture sector in India. Under this scheme, the central government contributes $60 \%$ of the total outlay for developmental programs in all states except those in the North East and Himalayas, where it contributes 90\%. Till date, 49 Centers of Excellence (COEs) have been established under this mission in various states via bilateral cooperation or research institutes. 22) The Unique Land Parcel Identification Number (ULPIN) is a 14 -digit alpha-numeric number generated based on latitude and longitude of land parcels.Its purpose is to provide the authoritative source of truth on any parcel of land or property. The Department of Land Resources will be organizing a national conference in New Delhi to discuss the implementation of ULPIN or Bhu-Aadhaar.
23)The WHO Global Report on Sodium Intake Reduction allocates a sodium country score to each member state to estimate the impact of policy progress on population dietary sodium intake and cardiovascular disease. According to the report, the WHO recommended policies to reduce sodium intake can prevent 2 million deaths by 2025 and 7 million deaths by 2030. The world is not on track to achieve the global target of reducing sodium intake by $30 \%$ by 2025.
24) The US regulators have shut down Silicon Valley Bank (SVB) and taken control of its customer deposits in the largest failure of a US bank since 2008.The firm, which was a key tech lender, was scrambling to raise money to plug a loss from the sale of assets affected by higher interest rates. Silicon Valley Bank faced inadequate liquidity and insolvency
25) The Tata Group and US Aerospace Lockheed Martin have agreed to produce fighter wings at their joint venture; Tata Lockheed Martin Aero structures Limited (TLMAL) in Hyderabad. The MOU allows the production of 29 fighter wing shipsets and includes an option for additional shipsets. Deliveries will start in 2025.
26) The International Union of Pure and Applied Chemistry (IUPAC) is a global federation consisting of National Adhering Organizations.Jyotirmayee Mohanty, a scientist at the Bhabha Atomic Research Centre, Mumbai, is the first woman in India to receive the IUPAC award. She received the IUPAC 2023 Distinguished Women in Chemistry or Chemical Engineering in recognition of her works in the field of chemistry.
27) The US government has appointed former Los Angeles mayor Eric Garcetti as the new ambassador to India, two years after his name was first announced for the role. Mr Garcetti, who is a close ally of Joe Biden, was nominated for the post by the US president in 2021. But his appointment was held up after allegations that he had overlooked accusations of sexual harassment against an aide when he was Mayor.
28) The first test vehicle demonstration (TV-D1) under the Gaganyaan mission will be conducted on May 2023.It aims to test the abort process mid-air, the parachute system, and the recovery of crew members after splashdown.
29) Poland announced that it would give Ukraine around a dozen MiG-29s, starting with the first four to be delivered in the coming days. This makes it the first NATO country to deliver fighter jet to the warring country. Both Poland and Slovakia later announced it would send 13 MiG-29 fighter jets to Ukraine in the coming weeks.
30) 'Governor of the Year' Award for 2023 was conferred recently to RBI Governor Shaktikanta Das by the international publication Central Banking. It recognized Das's role in leading the capital markets during the COVID-19 crisis and the Ukraine war.

## QUANTITATIVE APTITUDE: $\quad$ 31.D $\quad$ 32.D $\quad$ 33.C $\quad$ 34.A $\quad 35 . \mathrm{B}$

31. (D) Amount of milk left after 3 opertions $=\left[40(1-4 / 40)^{3}\right]$ litres $=[40 \times 9 / 10 \times 9 / 10 \times 9 / 10]=29.16$ litres
32. (D) Clearly, I only give the answer. Similarly, II only gives the answer. And, III only gives the answer .
33. (C) The year 2008 is a leap year. So, it has 2 odd days. $\quad 1^{\text {st }}$ day of the year 2008 is Tuesday (Given) So, $1^{\text {st }}$ day of the year 2009 is 2 days beyond Tuesday. Hence, it will be Thursday
34. (A) Required run rate $=[282-(3.2 \times 10) / 40)=250 / 40=6.25$
35. (B) The pattern is $2^{3}, 3^{3}, 4^{3}, 5^{3}, 6^{3}, 7^{3}$. But, 100 is not a perfect cube

## TEST OF REASONING : 36.C 37.D 38.B 39.D 40.C

36.C Each digit in the given number is multiplied with the other digit: $91=9 \mathrm{X} 1=9,10=1 \mathrm{X} 0=0,24=2 \times 4=8,32=3 \times 2=6$
37.D Order of heights is: Saran $>$ Vinith $>$ Vijay $>$ Praveen $>$ Sundareshan
38.B Each corresponding alphabet is +5 to the initial alphabet $A+5=F, C+5=H, E+5=J$, Similarly: $O+5=T, Q+5=V, S+5=X$
39.D Except Shreyas Iyer (Grade B player - INR 3 crore per annum) all three other players are Grade A+ players (INR 7 crore per annum)
40.C Baby animal of lion is called cub and similarly joey is the baby animal of kangaroo.


# VIVEKANANDA COLLEGE, TIRUVEDAKAM WEST GENERAL KNOWLEDGE <br> <br> EVERYDAY SCIENCE 

 <br> <br> EVERYDAY SCIENCE}

1. One of the most widely used drugs in medicine iodex is
a) methyl salicylate
b) ethyl salicylate
c) acetyl salicylic acid
d) o-hydroxy benzoic acid
2. The coldest region of the atmosphere
a) Troposphere
b) Thermosphere
c) Stratosphere
d) Mesosphere
3. You are sitting inside an open vehicle moving with uniform speed. When you throw a stone vertically upwards, the stone will fall
a) Ahead of you
b) Behind you
c) Over you
d) Either ahead or behind of you
4. Which of the following is a thermosetting polymer?
a) Bakelite
b) Nylon-6,6
c) Polyethylene
d) Teflon
5. Sodium or potassium salts of fatty acids are called
a) proteins
b) terpenes
c) carbohydrates
d) soaps
6. The value of acceleration due to gravity is minimum on which ofthese planets?
a) Mars
b) Jupiter
c) Mercury
d) Neptune
7. An example of a polar amino acid is $\qquad$
a) Glutamine b) Alanine c) Methionine d) Valine
8. Mineral associated with cytochrome is
a) Mg
b) Cu and Ag
c) Fe
d) Cu
9. Which device is used as the standard pointing device in aGraphical User Environment
a) Keyboard
b) Mouse
c) Joystick
d) Trackball
10. Which of the following is valid storage type?
a) Keyboard
b) CPU
c) Pen Drive
d) Trackball

## GENERAL STUDIES

11. 'SAMARTH scheme', which was seen in the news, is associated with which Ministry?
a) Ministry of Textiles
b) Ministry of Skill Development and Entrepreneurship
c) Ministry of Home Affairs
d) Ministry of Defense
12. What is the theme of National Safety Day 2023?
a) Our Aim - Zero Harm
b) Our Aim- Zero Accident
c) Health and Safety
d) Elimination of Occupational Hazard
13. As per the 'Indian States' Energy Transition' report, which states made the most progress in transition to clean electricity?
a) Our Aim-Zero Harm
b) Telangana and Tamil Nadu
c) Gujarat and Punjab
d) Haryana and Himachal Pradesh
14. Which state is the host of the 'Global Responsible Tourism Summit'?
a) Sikkim
b) Kerala
c) Goa
d) Himachal Pradesh
15. Which is the first platform to launch 'UPI LITE payments'?
a) Google Pay
b) Mi Pay
c) Paytm Payments Bank
d) Airtel Payments Bank
16. Which state passed the 'Protection of Drinking Water Catchment Areas Bill, 2023'?
a) Bihar
b) West Bengal
c) Arunachal Pradesh
d) Odisha
17. Which state has mandated one-year work experience for recruitment in state government departments?
a) Odisha
b) Goa
c) Gujarat
d) Uttarakhand
18. What is a small scale industry?
a) Industry with minimum 1 crore investment
b) Industry with maximum 1 crore investment
c) Industry with minimum 2 crore investment
d) Industry with maximum 2 crore investment
19. Which country is the largest producer of hydroelectricity in the world?
a) Russia
b) USA
c) China
d) India
20. What is the National Consumer Helpline (NCH) in India?
a) 1980
b) 1998
c) 1915
d) 1812

## CURRENT AFFAIRS

21. Whom did NASA appoint to head its new Moon to Mars Program Office?
a) Renu Malik
b) Ashish Nain
c) Neha Vashishat
d)Amit Kshatriya
22. Which country has become the 31st member of the North Atlantic Treaty Organization (NATO)?
a) Greece
b) Denmark
c) UK
d) Finland
23. In which city is Rani Kamalapati Railway Station, which was in the news recently, located?
a) Bhopal
b) Pune
c) Jaipur
d) Haridwar
24. Which bank has launched the country's first pocket-sized swipe machine for accepting digital payments called "MicroPay"?
a) Axis Bank
b) HDFC Bank
c) SBI
d) UCO Bank
25. Who wrote the book "War and Women"?
a) Salman Rushdie
b) M A Hasan
c) Shashi Tharoor
d) Neha Singh
26. Which state has received a $\$ 363$ million loan from the World Bank to provide clean drinking water to two million rural households?
a) Uttar Pradesh
b) Bihar
c) Kerala
d) Karnataka
27. To which state has the Board of Executive Directors of the World Bank approved a $\$ 100$ million loan?
a) Odisha
b) Bihar
c) Jharkhand
d) Goa
28. Which state signed an MoU with UNEP to implement an urban cooling program in the state?
a) Gujarat
b) Himachal Pradesh
c) Bihar
d) Tamil Nadu
29. A Tokyo-based space company called ALE has announced plans to create the world's first artificial meteor shower under which project?
a) Buddha
b) Project Beads
c) Project AI
d) Sky Canvas
30. Which country invited Prime Minister Narendra Modi to visit as a guest at the annual Bastille Day parade in July?
a) China
b) Japan
c) France
d) Kazakhstan
31. Find the value of $5^{1 / 4} \mathrm{x}(125)^{0.25}$

## QUANTITATIVE APTITUDE

a) 10
b) 7.5
c) 15
d) 5
32. Find the odd one out in the series: $53,59,61,73,79,87,89$
a) 53
b) 89
c) 87
d) 79
33. What is the market price of a $9 \%$ share when a person invests Rs. 4000 and gets 180 ?
a) 100
b) 90
c) 200
d) 199
34. Find the total number of prime factors in the expression $(14)^{11} \mathrm{x}(7)^{2} \mathrm{x}(11)^{3}$.
a) 27
b) 15
c) 16
d) 30
35. There are 42 students in a hostel. If the number of students increased by 14. The expense of mess increased by Rs 28 per day. While the average expenditure per head decreased by Rs 2 . Find the original expenditure.
a) 10
b) 15
c) 12
d) 28

## TEST OF REASONING

36. Complete the series $4,8,10,14,16,20$, ?.
a) 22
b) 67
c) 34
d) 24
37. Sunday, Monday, Wednesday, Saturday, Wednesday, Monday,.....
a) Sunday, Sunday
b) Sunday, Monday
c) Sunday, Wednesday
d) Sunday, Saturday
38. E, A , O, I
a) E
b) U
c) $X$
d) V
39. BINDING: BOOK
a) criminal : gang
b)display : museum
c) frame : picture
d) nail : hammer
40. Find the one which does not belong to that group?
a) 16
b) 28
c) 36
d) 64

## தமிய்

41. கீழ்க்கண்டவர்களுள் தற்போதைய சாகித்திய அகாதமி பொதுக்குழு உறுப்பினர் யார்? அஇரா.தாமோதரன் ஆ)ய.மணிகண்டன் இ)மோ.செந்தில்குமார் ஈ)எம்.வனிதா(நிதா எழிலரசி)
42. 'தவம் செய்வார் தம் கருமம் செய்வார்' என்னும் அடி இடம் பெற்ற நூல் எது? அபுறநானூறு ஆ)திருக்குறள் இ)தொல்காப்பியம் ஈசிலப்பதிகாரம்
43. பாரதி என்னும் பட்டம் பெற்றவர் யார்? அ)சுப்பிரமணியன் ஆ)சண்முகம் இ)கந்தசாமி ஈ)கதிரேசன்
44. விவேகானந்த கல்லூரி என்பதில் இடம்பெற்றுள்ள கல்லூரி என்பது $\qquad$ அபபாதுப் பெயர் ஆ)சிறப்புப்பெயர் இ)வினைச்சொல்
45. 'அம்மா இங்கே வா வா' என்பதில் அம்மா என்பதன் இலக்கணக்குறிப்புயாது? அமமன்றாம் வேற்றுமை ஆ)எட்டாம் வேற்றுமை இ)ஆறாம் வேற்றுமை $\quad$ ஈ)ஏழாம் வேற்றுமை
46. அறம் செய்ய விரும்பு என்பதில் 'விரும்பு' என்பது அகட்டளைச் சொல் ஆபெயர்ச்சொல்
47. கீழ்க்கண்ட சொற்களுள் பயனிலை யாது? அ)கதிரவன் ஆநிலவன் இ)வந்தான் ஈதென்றல்
48. விளம்பு,அறை, செப்பு, மொழி, கிளவி, உரை என்பதன் பொருள் யாது? அசொல்லுதல் ஆஉறங்குதல் இ)அடித்தல்
49. தனித்து இயங்கும் ஆற்றல் இல்லாத சொல் எது? அபெயர்ச்சொல் ஆ)வினைச்சொல்

இ)இடைச்சொல்
ஈ)சிரித்தல்
50. காரணப் பெயருக்குச் சான்று தருக அ)மரம் ஆ)வானம்

இ)பறவை
ஈ)பயனிலை

31. D $5^{1 / 4} \times(125)^{0.25} ; 5^{1 / 4} \times\left(5^{3}\right)^{1 / 4}=5$
32. C 87 because, the other numbers are prime numbers but 87 has other factors.
33. C 100 value of the share $=$ Rs. 100, Dividend per share $=9$
an income of Rs. 9 is obtained from an investment of Rs. $=(4000 / 180) * 9=200$
Market price of the share $=$ Rs. 200.
34. A 27 Solution: $(14)^{11} \times(7)^{2} \times(11)^{3}=(2 \times 7)^{11} \times(7)^{2} \times(11)^{3}=(2)^{11} \times(7)^{11} \times(7)^{2} \times(11)^{3}$
$=(2)^{11} \times(7)^{13} \times(11)^{3} \quad$ Therefore, total number of prime factors $=11+13+3=27$.
35. A 10 Solution : Total students after increment $=42+14=56$

Let the expenditure of students is A Rs/day. Increase in expenditure Rs 28/day.
Acc. to question $\quad 42 \mathrm{~A}+28=56(\mathrm{~A}-2) ; 42 \mathrm{~A}+28=56 \mathrm{~A}-112 . \quad 14 \mathrm{~A}=140, \mathrm{~A}=10$
Hence, the original expenditure of the student was Rs 10/day.

## TEST OF REASONING: $\quad$ 36.A $37 . \mathrm{A}$ 38.B $39 . \mathrm{C}$ 40.C

36. A) 22 Above series contains two sub-series in it. 4, 10, 16, $22 \quad 8,14,20$

Each of both term there is difference of 6 i.e. next term is 6 greater than previous term.
37. A) Sunday, Sunday Sunday to Monday = no gap, Monday to Wednesday = One day gap.

Wednesday to Saturday = Two days gap, Saturday to Wednesday = Three days gap.
Wednesday to Monday = Four days gap, In the next term there must be five days and six days gap.
So, Next term would be Sunday, Sunday.
38. B) U E, A, _, O, I.

The given series consists of vowels in decreasing order, starting with E. Hence, the missing
39. C) frame : picture A binding surrounds a book; a frame surrounds a picture.
40. C) $36 \quad 16,36,64$ and 4 are perfect squares but not 28 .

[^0]
[^0]:     45. ஆ|ாட்டாம் வேற்றுமை 46. அ|கட்டாளச் லசால் 47. இ|வந்தான் 48. அ|இசால்லுதல் 49. இஇமடச்ดசால் 50. இபற๓ை

