## EVERYDAY SCIENCE

1. An eye defect which usually result from an unequal curvature of the cornea is
(a) Nearsightedness
(b) astigmatism (c) color blindness
(d) night blindness
2. The element of an electric stove is made of
(a) Copper
(b)aluminium
(c) magnalium (d) nicrome
3. Of the following foods, which one is the best source of protein
(a) Butter
(b) fish
(c) lettuce
(d) milk
4. The most abundant element in the earth's atmosphere is
(a) Carbon dioxide
(b) hydrogen
(c) oxygen
(d)nitrogen
5. Which of the following chemicals is useful in photography?
(a) Aluminium hydroxide
(b) potassium nitrate
(c) silver bromide
(d) sodium chloride
6. The purest form of water can be obtained from
(a) A deep tube well (b) a running stream (c) a hot water spring (d) a heavy shower of rain
7. Which of the following vitamins is stored in the liver?
(a) Vitamin A
(b) Vitamin C
(c) Vitamin E
(d) Vitamin K
8. Pressure cooker cooks rice faster because
(a) It always lets the steam escape (b) high pressure crushes the hard covering of rice gain
(c) it does not let the heat energy escape easily (d) high pressure raises the boiling point of water
9. An element found in all organic compounds is
(a) Oxygen
(b) calcium
(c) nitrogen
(d) carbon
10. Penicillin is widely used as
(a) An antiseptic
(b) a disinfectant
(c) an antibiotic
(d) an insecticide

## General Studies

11. Consider the following sentences regarding India Post Payment Bank :
(a) The India post payment bank has received the certificate of incorporation under the companies Act 2013.
(b) This would be the first PSU under the Department of Posts.
(c) It is poised to create a national payments architecture riding on a modern payments platform.

Which of the above sentences is/are true?
(a) a and b
(b) b and c
(c) a and c
(d) a,b and c
12. Consider the following statement regarding Swatch Bharat Mission:
(a) SBM is being implemented by Ministry of Urban Development in urban areas and Ministry of Rural Development in rural areas.
(b) To create an enabling environment for private sector participation in Capex (Capital expenditure) and Opex (operation and maintenance) is one of the objectives of SBM.
(c) Nagaland became the firstand India's only open-defecation Free State recently.

Which of the statement is/are correct?
(a). only a
(b) only b
(c) only c
(d) a and c
13. "The State" as per article 12 includes
a) . The State Bank of India and other nationalised banks.
b) Board of control for cricket in India (BCCI) as it is financially and administratively dominated by the Government.
c) Local authorities of India within the territory of India. Choose the correct statement
(a) Only a
(b) a and c
(c) Only c
(d) a, b and c
14. Consider the following statement about the Monetary Policy in India.
(a) Primary objective of the monetary policy is to maintain price stability, while keeping in mind the objectives of growth.
(b) Failure to meet the inflation target will require the RBI to send a report to the president starting reasons for failure and proposed remedial actions.
Which of the statement is/are correct?
(a) Only a
(b) only b
(c) Both a and b
(d) Neither a nor b
15. Consider the following statement about Global Competitive Index:
(a) It is released by international Monetary Fund (IMF)
(b) India's rank has improved 16 places for the second year in a row after moderate rise in the year 2014-15.
(c) This year, the report highlight that declining openness is threatening growth and prosperity all over the world. Choose the correct option:
(a) Only b
(b) Only c
(c) a and b only
(d) b and c only
16. Consider the following statement about World Trade Organisation (WTO):
(a) The Worlds Trade Organisation (WTO) is the only global international organization dealing with the rules of trade between nations.
(b) The policies of WTO can cut living costs and raise living standards of people.
(c) WTO includes among its objectives, optimal use of the world's resources, sustainable development and environmental protection.
Which of the above statement is/are correct?
(a) b and c
(b) only c
(c) a and c
(d) all of the above.
17. Consider the following statement about the Narasimham Committee:
(a) It recommended to reduce statutory liquidity ratio and cash reserve ratio to increase liquidity with banks.
(b) It recommended phasing out direct credit programmes given to industries and agriculture.
(c) It recommended to eliminate the priority sector lending concept and bring a new concept to give benefits to marginal sections.
(d) It recommended that interest rate in the country should be broadly determined by the market forces. Which of the above statement is/are correct:
(a) A, b and c
(b) a, b and d
(c) b, c and d
(d) a, c and d
18. Consider the following statement about Economic Reform of 1991:
(a) Custom duties and traffic imposed on imports and exports were reduced drastically to boost industries.
(b) In the next few years after reforms, GDP growth rate increased but the growth rate of employment decreased compared to pre-reform period.
Which of the statement is/are correct:
(a) Only a
(b) b only
(c) Both a and b
(d) Neither a nor b
19. With regard to banking activities, the customer of the bank for international settlement (BIS) are
(a) Central banks
(b) international organization
(c) Both (a) and
(b) (d) none
20. BRICS Bank will sanction its first loan to which Indian project?
(a) Solar power project in Karnataka (b)Irrigation venture in Rajastan (c) Road project in Madhya Pradesh (d) None of the above

## Current Affairs

21. Bharat Sanchar Nigam Ltd.(BSNL) has stopped its 163 years old $\qquad$ services.
(a) Trunk Call
(b) Money Order
(c) Telegram
(d) None of these
22. Who is the Executive Chairman of India's IT Company Infosys?
(a) Narayana Murthy
(b) Nandan Nilekani
(c) K.V.Kamath(d) None of these
23. Who has become the first cricketer from Jammu \& Kashmir to break into the Indian senior cricket team?
(a) Shami Ahmed
(b) Shahbaz Nadeem (
c) Shubham Khajuria (d) Parveez Rasool
24. The famous 'Lukla Airport' at an altitude of about 2843 metres also called 'Tenzing-Hillary Airport' is situated in which country?
(a) India
(b) New Zealand
(c) Bhutan
(d) Nepal
25. Who is the present Australian Prime Minister?
(a) Jullia Gillard
(b) Kevin Rudd (c) Malcolm Turnbull
(d) None of these
26. NDMA stands for?
(a) National Dairy Management Association (b) National Disaster Management Authority (c) National Defense Management Academy (d) National Dam Management Authority
27. Who wrote the Book "Long Walk to Freedom"?
(a). Aung San Suu Kyi
(b) Pervez Musharra
(c) Nelson Mandela
(d) Bill Clinton
28. Indian Space Research Organisation in February 2017 created world record by deploying 104 satellites in space through its space vehicle
(a) PSLV-C25
(b) PSLV-C37
(c) PSLV-C30
(d) PSLV-C35
29. Mahatma Gandhi National Rural Employment Guarantee Scheme (MGNREGS) was launched in
(a) 2005
(b) 2008
(c) 2006
(d) 2007
30. In the Human Development Index, a part of the UNDP Hyman Development Report 2016, India ranks among 188 countries at
(a) 100
(b) 111
(c) 131
(d) 75

## Quantitative Aptitude

31. The difference of two numbers is 1365 . On dividing the larger number by the smaller, we get 6 as quotient and the 15 as remainder. What is the smaller number?
a) 240
b) 270
c) 295
d) 360
32. If the number $517 * 324$ is completely divisible by 3 , then the smallest whole number in the place of $*$ will be:
a) 0
b) 1
c) 2
d) None of these
33. If $\sqrt{ } 2^{n}=64$ then the value of $n$ is
a) 2
b) 4
c) 6
d) 12
34. If $(a / b)^{x-1}=(b / a)^{x-3}$ then the value of $x$ is
a ) $1 / 2$
b) 1
c) 2
d) 3
35. The Value of $(\underline{2.697-0.498})^{2}+(2.697+0.498)^{2} \quad$ is
$2.697 \times 2.697+0.498 \times 0.498$
a ) 0.5
b) 2
c) 2.199
d) 3
36. Find a number such that when 15 is subtracted from 7 times the number of result is 10 more than twice the number
a) 5
b)6
c) 4
d) 8
37. Which number replaces the question mark?

38. If $5 \oplus 3=34$ and $6 \oplus 2=40$ then, the value of $7 \oplus 1$ is
a) 54
b) 34
c) 50
d) 30
39. Find out the wrong number in the series $2880,480,92,24,8,4,4$
a) 480
b) 92
c) 24
d) 8
40. If $P$ denotes $X, Q$ denotes $/, R$ denotes + , and $S$ denotes - , Find the value of 275 Q 5 R 85 S 5 P25
a) 10
(b) 23
(c) 15
d) 20
TEST OF REASONING
41. Cyclone is related to Anticyclone in the same way as flood is related to $\qquad$
a)Devastation
b) Havoc
c)River
d) Drought
(R.R.B,2002)
42. Needle: Clock; Wheel:?
a) Walk
b) Roadc) Vehicle
d) Driving
(R.R.B,2004)
43. Select a figure from amongst the Answer Figures which will continue the same series as established by the five Problem Figures.
Problem Figures: Answer Figures:

(A)
(B) (C)
(D) (E)
(1)
(2) (3) (4) (5)
44. Select a suitable figure from the four alternatives that would complete the figure matrix.

45. Select the alternative which represents three out of the five alternative figures which when fitted into each other would form a complete square.

(x)

(2)
$\triangle>$
(3)
(4)
46. 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'? (IBPS-2015)
a) WJWMXI
b) WJWLSI
c) WIWSVI
d) WJWGVI
47. Select the alternative which represents three out of the five alternative figures which when fitted into each other would form a complete square.

(X)

(1)

(2)

(3)

d) 4
48. Find out from amongst the four alternatives as to how the pattern would appear when the transparent sheet is folded at the dotted line.

(X)
a) 1

(1)
b) 2

(3)


(4)
c) 3
d) 4
49. If BHASHA is coded as 154754 , BRAIN is coded as 13408 , AHINSA will be coded as
a) 450874
b) 405847
c) 450847
d) 450874
50. 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

| 1. | B | $11 . \mathrm{D}$ | $21 . \mathrm{C}$ |
| :--- | :--- | :--- | :--- |
| 2. | D | $12 . \mathrm{B}$ | $22 . \mathrm{A}$ |
| 3. | B | $13 . \mathrm{B}$ | $23 . \mathrm{D}$ |
| 4. | D | $14 . \mathrm{A}$ | $24 . \mathrm{D}$ |
| 5. | C | $15 . \mathrm{B}$ | $25 . \mathrm{C}$ |
| 6. | D | $16 . \mathrm{D}$ | $26 . \mathrm{B}$ |
| 7. | A | $17 . \mathrm{B}$ | $27 . \mathrm{C}$ |
| 8. | D | $18 . \mathrm{C}$ | $28 . \mathrm{B}$ |
| 9. | D | $19 . \mathrm{C}$ | $29 . \mathrm{C}$ |
| 10. | C | $20 . \mathrm{A}$ | $30 . \mathrm{C}$ |

31. Let the smaller number be $x$. Then larger number $=(x+1365)$
$\therefore x+1365=6 x+15$
$\Rightarrow 5 x=1350$
$\Rightarrow x=270$
$\therefore \quad$ Smaller number $=270$. Ans : $\mathbf{b}$
32. Sum of digits $=(5+1+7+x+3+2+4)=(22+x)$, which must be divisible by 3 .
$\therefore \quad x=2$.
Ans. C
33. $\left(2^{\mathrm{n}}\right)^{1 / 2}=64$
$2^{1 / 2}=64$
$2^{n / 2}=2^{6}$
$\mathrm{n} / 2=6$
$\mathrm{n}=12$
Ans:(d)
34. $(a / b)^{x-1}=(b / a)^{x-3}$
$(a / b)^{x-1}=(a / b)^{-(x-3)}$
$(\mathrm{a} / \mathrm{b})^{x-1}=(\mathrm{a} / \mathrm{b})^{3-\mathrm{x}}$
$\mathrm{x}-1=3$-x
$\mathrm{x}+\mathrm{x}=3+1$
$2 \mathrm{x}=4$
$x=2$
Ans;(c)
35. $\frac{(\mathrm{a}-\mathrm{b})^{2}+(\mathrm{a}+\mathrm{b})^{2}}{2}=2\left(\mathrm{a}^{2}+\mathrm{b}^{2}\right)=2$
$a^{2}+b^{2} a^{2}+b^{2}$
Ans $=\mathbf{B}$
36. Let the Number be X
$7 \mathrm{X}-15=2 \mathrm{X}+10$
$7 \mathrm{X}-2 \mathrm{X}=10+15$
$5 \mathrm{X}=25$
$\mathrm{X}=5$
37. In each circle, starting at the top left segment, numbers increase, as you move clockwise, by 2 for the upper left circle, 3 for the upper right, 4 for the lower right and 5 for the lower left.
38. $5 \times 5 \oplus 3 \times 3=25 \oplus 9=34$
$6 \times 6 \oplus 2 \times 2=36 \oplus 4=40$
$7 \times 7 \oplus 1 \times 1=49 \oplus 1=50$ Ans: c) 50
39. Go on dividing by $6,5,4,3,2,1$ respectively to obtain the next number.

Clearly, 92 is wrong. Ans: B
40. $275 / 5+85-5 \times 25=55+85-125=15$
41. D.
42. Ans: C
43. Ans: (1)
44. Ans: (1)
45. Ans: (2)
46. Ans: D
47. Ans: A
48. Ans: C
49. BHASHA BRAIN AHINSA
$154754 \quad 13408 \quad \underline{450874} \quad$ Ans: a)
50. $5+9=14 \times 6=84$
$7+3=10 \times 7=70$
$8+6=14 \times 4=56$
$5+7=12 \times 3=36$ Ans: b) 7

1. Exposure to sunlight helps a person improves his health because
(b) The infra-red light kills bacteria in the body
(b) resistance power increase
(c) the pigment cells in the skin get stimulated and produce a healthy tan (d) the ultraviolet rays convert skin oil into Vitamin D
2. For purifying drinking water, alum is used
(b) For coagulation of mud particles
(b) to kill bacteria
(c) to remove salts
(d) to remove gases
3. Which of the following is needed by a person suffering from diabetes?
(b) Antibiotics
(b) insulin
(c) penicillin
(d) streptomycin
4. An element common to all acids is
(b) Oxygen
(b) hydrogen
(c) sulphur
(d) chlorine
5. A transistor is most likely to be found in a
(b) Fuse
(b) fluorescent lamp
(c) hearing aid
(d) wrist watch
6. Steel is more elastic than rubber because
(a) It's density is high (b) it is a metal (c) ratio of stress to strain is more (d) ratio of stress to strain is less
7. The working of a rocket is based on the principle of
(b) Electricity
(b) kepler's law
(c) Newton's law
(d) conservation of momentum
8. The number of chromosomes in human body is
(b) 42
(b) 44
(c) 46
(d) 48
9. Brain of a normal human adult weight about
(b) 1 lb
(b) 2 lb
(c) 3 lb
(d) 4 lb
10. Who's credited with the following development of polio vaccine:
(b) Linus pauling
(b) jonas salk
(c) Melvin calvin
(d) Selman waskman

## General Studies

11. Which of the following rivers is/are believed to be older than the Himalayas?
(d) Indus
(b) Ganga
(c) Brahmaputtra
(d) Sutlej

Code:
(a) a,b and c
(b) a and c
(c) d only
(d) a, c and d
12. The amount and intensity of monsoon rains in India are affected by
d) Tropical depressions (b) westerly disturbances (c) wave cyclones (d) relief condition

Select the correct answer using the code given below
(a) a and b
(b) $b$ and $c$
(c) $c$ and $d$
(4) a and d
13. The 'Vaccine safety Net' site has been launched by the
(c) State Government of Tamilnadu
(b) World Health Organisation ministry of Health and Family welfare, India (d) Bill and Melinda Gates Foundation
(C)
14. Which among the following cities has decentralized biomethanation plants?
(a) Patna
(b) Pune
(c) Kolkata
(d) New Delhi
15. With reference to the United Nations Convention to Combat Desertification (UNCCD), consider the following statement:

1. It address the issue of drought in arid and semi arid areas
2. It is legally binding international agreement
3. India is not a signatory to the Convention
(d) 1 and 2
(b) 2 and 3
(c) 1 and 3
(d) 1,2 and 3
4. Communication compatibility and security agreement (COMCASA) has been signed between india and
(d) United kingdom
(b) Italy
(c) United states of America
(d) France.
5. MSME sector has been playing an important role in socio-economic development of the country. Consider the following about it:
6. More then half of the Gross Domestic Producer (GDP) comes from MSMEs.
7. The primary responsibility of promotions and development of MSME's is of the State Government Which of the above statement is/are correct:
(b) 1 only
(b) 2 only
(c) Both 1 and 2
(d) None
8. Which of the following are silk centers of India?
9. Dharmavaram
10. Sualkuchi 3. Bailapur
11. Chanderi

Select the correct answer using the codes below:
(b) 1, 2 and 3 only
(b) 2 and 4 only
(c) 1,2 and 4 only
(d) 3 and 4 only
19. Which of the following about the National Mineral Exploration Policy (NMEP) is INCORRECT?
(b) It intends to nationalize the oil and gas exploration sector to cut down monopolies.
(c) It aims at reducing private sector control over other mineral sectors to eliminate the misuse of India's mineral resources
(d) Both (a) and (b)
(d) None of the above
20. Which of the following is NOT one of the working areas of the International National Monetary Fund (IMF)?
(b) Foster global monetary cooperation
(b) Facilitate international trade
(c) Reduce poverty around the world
(e) Design national intellectual property agreement

## Current Affairs

21. Who has won the men's singles title of Australian open Tennis Grand Slam 2017?
(a)David ferrer
(b) Rafael Nadal
(c) Roger Federer
(d) Novak Djokovic
22. Who among the following Indian badminton players has become the first to win a silver medal in Olympic Games?
(a) P.V.Sindhu
(b) P.Kashyap
(c) K.Srikanth
(d) Saina Nehwal
(b)
23. The Uttarakhand High Court through its ruling recognized the Ganga and Yamuna rivers as living entities in March 2017. Which was the first country to recognize its river as a living entity?
(b) Australia
(b) USA (c) New Zealand
(d) Japan
24. Who has become the $21^{\text {st }} \mathrm{Lt}$. Governor of Delhi?
(b) Tejendra Khanna (b) Ani Baijal (c) A.B.Singh (d) Najeeb Jung
25. In percentage terms, which Indian State has the highest forest cover?
(b) Madhya Pradesh (b) Jammu and Kashmir (c) Nagaland (d) Arunachal Pradesh
26. Which of the following is not a conglomerates?
(b) Reliance
(b) ITC (c) TCS
(d) Adani
27. Which film has won the Best Picture Award at the $89^{\text {th }}$ Academy Awards announced in Feb 2017 ?
(a) Moonlight
(b) La La Land (c) The Salesman
(d) Manchester by the Sea
(a). Aung San Suu Kyi (b) Pervez Musharra
(c) Nelson Mandela
(d) Bill Clinton
28. Pilatus PC-7 is a(n):
(b) Frigate
(b) aircraft carrier (c) ship (d) aircraft
29. Which of the following countries has the lowest External Debt?
(a) United Kingdom
(b) France
(c) USA
(d) India
30. Raspberry Pi is a:
(b) Computer-sized credit card (b) former name of iMac (c) credit card-sized dessert (d) credit card-sized computer

## Quantitative Aptitude

31. $(-251 \times 21 \times-12) \div ?=158.13$
(a) 250
(b) 400
(c) 300
(d)150
(e) None of these
32. $(15.20)^{2}-103.04 \div$ ? $=8$
(a) 12
(b) 6.5
(c) 8.2
(d) 16
(e) None of these
33. $333 \times 33 \times 3=$ ?
(a) 32697
(b) 36297
(c) 32679
(d) 39267
(e) None of these
34. $1148 \div 28 \times 1408 \div 32=$ ?
(a) 1800
(b) 1804
(c) 1814
(d) 1822
(e) None of these
35. $1425+8560+1680 \div 200=$ ?
(a) 58.325
(b) 9973.4
(c) 56.425
(d) 9939.4
(e) None of these
36. $4 \quad 16 \quad 36 \quad 64 \quad 100$ ?
(a) 120
(b) 180
(c) 136
(d) 144
(e) None of these
37. $102 \quad 99 \quad 104 \quad 97 \quad 106 \quad$ ?
(a) 96
(b) 95
(c) 100
(d) 94
(e) None of these
38. The cost of 7 tables and 12 chairs is ` 48250 . What is the cost of 21 tables and 36 chairs?
(a) 96500
(b) $1,25,500$
(c) $1,44,750$
(d) Cannot be determined (e) None of these
39. ' $A$ ' can complete a piece of work in 12 days. ' $A$ ' and ' $B$ ' together can complete the same piece of work in 8 days. In how many days can ' $B$ ' alone complete the same piece of work?
(a) 15 days
(b) 18 days
(c) 24 days
(d) 28 days
(e) None of these
40. Raman drove from home to a neighbouring town at the speed of $50 \mathrm{kms} / \mathrm{hr}$. and on his returning journey, he drove at the speed of $45 \mathrm{kms} / \mathrm{hr}$. and also took an hour longer to reach home. What distance did he cover each way?
a) 450 kms .
(b) 225 kms .
(c) 900 kms .
(d) 500 kms .
(e) None of these

## TEST OF REASONING

41. In a certain code BOARD is written 53169 and NEAR is written as 2416 . How is NODE written in that code?
a) 2394
(b) 2894
(c) 2934
(d) 2694
(e) None of these
42. What should come next in the following sequence of letters?
B B C B CD B CDEBCDEFBCDEFGBCDEF
a) B
(b) G
(c) H
(d) D
(e) None of these
43. If 'GREEN' means 'YELLOW' ; 'YELLOW means 'WHITE' ; 'WHITE means 'RED' ; 'RED' means 'VIOLET' ; 'VIOLET' means 'BLACK'; then which of the following will be the color of human blood?
(a) Red
(b) Black
(c) Green
(d) white
(e) None of these
44. EARN is related to RANE and BOND is related to NODB in the same way as TEAR is related to $\qquad$ ..?
(a) AERT
(b) ATRE
(c) ARET
(d) REAT
(e) None of these
45. If ' $\times$ ' means 'added to'; ' $\div$ ' means 'multiplied by'; '+' means 'subtracted from' and '_' means 'divided by' then $24+36-12 \times 8 \div 4=$ ?
(a) 36
(b) 53
(c) 5
(d) -20
(e) None of these
46. There are six person in a family namely ' A ', ' B ', ' C ', ' D ', ' E ', and ' F ', ' C ' is the sister of ' F ', ' B ' is the brother of ' $E$ 's husband. ' $D$ ' is the father of ' $A$ ' and grandfather of ' $F$ '. How is ' $D$ ' related to ' $C$ '?
(a) Father
(b) Uncle
(c) Grandfather
(d) Brother
47. Rajesh walked 25 meters towards South. Then he turned to his left and walked 20 meters. He then turned to his left and walked 25 meters. He again turned to his right and walked 15 meters. At what distance is he from the starting point and in which direction?
a) 35 meters----East
(b) 60 meters----East
(c) 35 meters-----North
(d) 40 meters----East
48. Border: Country
(a) Pen : Cap
(b) Book : Cover
(c) Handle : Shade
(d) Frame : Picture
49. Traffic : Road
(a) Aeroplane : Aerodrome
(b) Roots : Tree
(c) Blood : Veins
(d) Car: Carage
50. ZAJ, YBK, XCL, WDM, "?"
(a) VEN
(b) VFM
(c) VEM
(d) VNO


## Answer Key

## EVERY DAY SCIENCE _GENERAL STUDIES

CURRENT AFFAIRS

| 11. | D | 11.D | 21.C |
| :--- | :--- | :--- | :--- |
| 12. | A | 12.D | 22.A |
| 13. | B | $13 . \mathrm{B}$ | 23.C |
| 14. | B | $14 . \mathrm{B}$ | 24.B |
| 15. | C | 15.A | 25.D |
| 16. | C | $16 . \mathrm{C}$ | 26.C |
| 17. | D | $17 . \mathrm{B}$ | 27.A |
| 18. | C | $18 . \mathrm{C}$ | 28.D |
| 19. | C | $19 . \mathrm{C}$ | 29.D |
| 20. | B | 20.D | 30.D |

31.B: $\frac{(-251 \times 21 \times-12)}{?}$

$$
?=\frac{63252}{158.13}=400
$$

32.E
33.E : 32967
34.B: ? $=\frac{1148}{28} \times \frac{1408}{32}$

$$
=41 \times 44=1804
$$

35.E:
$?=1425+8560+1680 \div 200$
$=1425+8560+8.4$
$=9993.4$
36.D:

The sequence is $2^{2} 4^{2} 6^{2} 8^{2} 10^{2} 12^{2}$
37.B
38.C
39.C : A's one day work $=1 / 12$
$(A+B)$ 's one day work $=1 / 8$
B's one day work
$=\frac{1}{8}-\frac{1}{12}=\frac{3-2}{24}=\frac{1}{24}$ B can complete the job in 24 days
40.A: Let the distance covered be S km .

$$
\begin{gathered}
\frac{S}{50}+1=\frac{S}{45} \\
\frac{S}{45}-\frac{S}{50}=1 \\
\frac{(20-18) S}{900}=1 \\
S \frac{900}{2}=450
\end{gathered}
$$

41.A
B......5, O.....3, A...1,R....6,D.....9,N......2,E...... 4

NODE= 2394
42.C:

SPORAD I C
ROPSCIDA
$-1 \downarrow \downarrow \downarrow \downarrow \downarrow \downarrow \downarrow \downarrow$
QNORDJEB
Similarly
TROUBLES
UORTSE L B
$\downarrow \downarrow \downarrow \downarrow \downarrow \downarrow \downarrow \downarrow$
TNQST F MC
43.D.VIOLET
44.A
45.B
46.C
47.A
48.D
49.C
50.A

## VIVEKANANDA COLLEGE, TIRUVEDAKAM WEST-625234 GENERAL KNOWLEDGE

## Everyday Science

1. If force is expressed in Newton and the distance in meter, then the work done is expressed in
(a) Joule
(b) Kg wt
(c) Kg wt m
(d) Watt
2. A person born with the inner ear missing
(a) Would not have the Eustrachian tube
(b) would never be able to her sound
(c)would be able to hear only with an electronic hearing aid
(d) could only hear a loud explosion
3. The isotopes of an element contain the same number of
(c) Neutrons and protons
(b) protons but different
(c) neutrons and protons but different number of electrons (d) neutrons and electrons but different number of protons
4. The reaction which converts sugar solution into alcohol is an example of
(c) Saponification
(b) hydrogenation
(c) fermentation
(d) hydrolysis
5. A body falling freely from a height towards the earth moves with uniform
(c) Speed
(b) velocity
(c) acceleration
(d) weight
6. The clear sky looks blue because of
(b) Reflection of light
(b) refraction of light
(c) diffraction of light
(d) dispersion of light
7. The drug quinine is used in the treatment of
(c) Bubonic plague
(b) malaria
(c) typhus
(d) yellow fever
8. Which one of following elements is least likely to be found in commercial fertilizers?
(c) Nitrogen
(b) phosphorus
(c) potassium
(d) silicon
9. Of the blood groups $A, B, A B$ and $o$, which one is transfused into a person whose blood group is $A$ ?
(c) Group A only
(b) Group B only
(c) Group A and O
(d) Group AB only
10. Excessive secretion from the pituitary gland in children result in
(c) Increased height
(b) retarded growth
(c) weakening of bones
(d) none of the above

General Studies
11. Consider the following statements:

1. High Efficiency Particular Arrestance (HEPA) is a type of air filter.
2. The higher the 'Clean Air Delivery Rate (CADR)' number, the more effective the purifier is for a given size of room.
Which of the statements given above is/are correct?
(a) 1 only
(b) 2 only
(c) Both 1 and 2
(d) Neither 1 nor 2
3. The 'Sunflower Movement' was a movement against the growing influence of China in
e) Hong Kong
(b) Macau
(c) Taiwan
(d) Mongolia
4. The European Union was established under its current name in 1993 following the
(d) Berlin Treaty
(b) Maastricht Treaty
(c) Treaty of Vienna
(d) Treaty of Bonn
5. The Geographical Indication (GI) tag is to be given to 'Nilambur' from Kerala. It's a variety of
(b) teak
(b) rice
(c) coconut
(d) clove
6. Which of the following statements is not correct about the National Commission for Protection of Child Rights (NCPCR)?
(a) The National Commission for Protection of Child Rights (NCPCR) was set up in 2012.
(b) NCPCR is a statutory body.
(c) It comes under the administrative control of the Ministry of Women and Child Development, Government of India.
(d) The Commission's mandate is to ensure that all laws, policies, programmers and administrative mechanisms are in consonance with the child rights perspective as enshrined in the Constitution of India and also the UN Convention on the Rights of the Child.
7. Which of the following was NOT supported by Bal Gangadhar Tilak?
(a) Age of Consent bill
(b) No-revenue campaign of 1896-97
c) Theory of the arctic home
of the Aryans
(d) All were supported by him.
8. Consider the following about National Population Commission (NPC) of India:
9. It is chaired by the Prime Minister of India
10. It Conducts the decennial demographic Census in India

Which of the above is/are correct?
(a) 1 only
(b) 2 only
(c) Both 1 and 2
(d) None
18. Himadri and Bharati are
(a) India's research station at Arctic
(b) Underwater Indian Observation at Antarctica
(c) India's research at Arctic and Antarctica respectively
(d) watchtower research bases at Siachin glacier
19. The National Investment Fund (NIF) was created as a fund to which
(a) Only sovereign nations can contribute as a diplomatic gesture
(b) The proceeds from disinvestment of Central Public Sector Enterprises were to be channeled.
(c) RBI would maintain the idle bank reserves that will be deployed for capital formation.
(d) A part of the proceeds from Public Account of India would automatically be subscribed.
20. Consider the following statement about Youth Parliament:

1. It was established by an executive order on the recommendation of the then Lok Sabha Speakers.
2. It gives young elected MPs an opportunity to hone their debating skills as the debates are held between Parliamentary sessions in the Lok Sabha.
Which of the above is/are correct?
(a)1 only
(b) 2 only
(c) Both 1 and 2
(d) None

Numerical Ability
21. The body weight of 7 students of a class is recorded as $54 \mathrm{~kg}, 78 \mathrm{~kg}, 43 \mathrm{~kg}, 82 \mathrm{~kg}, 67 \mathrm{~kg}, 42 \mathrm{~kg}$ and 75 kg . What is the average body weight of all the 7 students?
(a) 63 kg
(b) 69 kg
(c) 71 kg
(d) 73 kg
(e) None of theses
22. Three numbers are in the ration $4: 5: 6$ and their average is 25 . The largest number is
(a) 30
(b) 32
(c) 36
(d) 42
23. The population of a town is 8500 . It increased by $20 \%$ in the first year and by another $25 \%$ in the second year. What would be the population of the town after 2 years?
(a) 10950
(b) 11950
(c) 12550
(d) 12750
(e) None of theses
24. The cost price of an article is $64 \%$ of the market price. Calculate the gain percent after allowing a discount of 12\%.
(a) $37.5 \%$
(b) $48 \%$
(c) $50.5 \%$
(d) $52 \%$
25. If $A: B=2: 3, B: C=2: 4$ and $C: D=2: 5$, then $A: D$ is equal to

## (C.P.O., 2007)

(a) $1: 5$
(b) $2: 5$
(c) $3: 5$
(d) $2: 15$
26. Ayesha can complete a piece of work in 16 days. Amita can complete the same piece of work in 8 days. If both of them work together in how many days can they complete the same piece of work?
(a) $4 \frac{2}{5}$ days
(b) $5 \frac{1}{3}$
(c) 6 days
(d) 12 days
(Bank P.O., 2010)
27. The ratio of the circumference of two circles is $2: 3$ what is the ratio of their areas?
(J.M.E.T.,2004)
28. In a simultaneous throw of two coins, the probability of getting at least one head is
(a) $1 / 2$
(b) $1 / 3$
(c) $2 / 3$
(d) $3 / 4$
29. What is the probability of getting a sum 9 from two throws of a dice?
(a) $1 / 6$
(b) $1 / 8$
(c) $1 / 9$
(d) $1 / 12$
30. Find the odd man out: $3,5,7,12,17,19$
(a) 19
(b) 17
(c) 13
(d) 12
31. $4,8,28,80,244$, ?
(a) 278
(b) 428
(c) 628
(d) 728
32. AZY, BUT, CXW, DWV,?
33.
(c) VEU
(d) VUE
(a) EVA
(b) EVU
33. $\frac{a b a}{a}$ aba _ __ ba _ ab (b) abbab
(c) baabb
(d) bbaba
34. Giant : Dwarf :: Genius : ?
(a) Wicked
(b) Gentle
(c) Idiot
(d) Tiny
35. Given Set : $(223,324,425)$
(a) $(225,326,437)$
(b) $(451,552,636)$
(c) $(554,655,756)$
36. Which of the following diagram is the correct one
Vegetables, Potato, Cabbage
(a)

(c)

(c)
(d)

(e)

(Bank P.O.1999)
(SSC 2005)
(I.I.T.T.M. 2005)
(SSC 2005)
823)
37. Arrange the given words in a meaningful sequence and then choose the most appropriate sequence

1. Elephant
2. Cat
3. Mosquito
4. Tiger 5. Whale
a) 1, 3, 5, 4, 2
(b) $2,5,1,4,3$ (c) $3,2,4,1,5$
(d) 5, 3, 1, 2, 4
5. 


4

5

10
(a) 22
(b) 30
(c) 32
(d) None of these
39. When you see a blind man trying to cross the road, you
(a) ask someone to help
(b) go and help him
(c) wait till he crossed the road ignore and move on
(d)
40. if + means $\times, \times$ means,$- \div$ means + and - means $\div$, then which of the following gives the (SSC 2000)
result of $175-25 \div 5+20 \times 3+10$ ?
(a) 77
(b) 160
(c) 240
(d) 2370

## Current Affairs

41. At present, the government permits $\qquad$ \% Foreign Direct Investment (FDI) in the food processing section.

## (a). 80

(b) 90
(c) 100
(d) 75
42. The Tamilnadu government announced a scheme to distribute Community Certificate to applicants, particularly students, within $\qquad$ hours of submitting application online.
(a) 12
(b) 24
(c) 36
(d) 48
43. Bertha, the World's oldest Hippopotamus, has died at the age of $\qquad$ at Manila Zoo, Philippines.
(a) 25
(b) 35
(c) 55
(d) 65
44. The Department of Industrial Policy and Promotion (DIPP) has cleared Amazon's proposal to invest $\qquad$ million dollars for retailing food products in India.
(a) 200
(b) 300
(c) 400
(d) 500
45. Snapdeal's board had rejected a takeover offer of around $\qquad$ crore from Flipkart.
(a) 2500
(b) 3500
(c) 4500
(d) 5500 founded by Sultan Ahmad Shah in the 15
46. The Walled city of $\qquad$ World Heritage City.
(a) Rameswaram
(b) Chandigar
(c) Jaipur
(d) Ahmedabad
47. Japan's $\qquad$ -only island Okinoshim

UNESCO wo
(c) Children
(d) Transgenders
48. Beach sands of the southern coast of Tamilnadu comprise a mixture of rare minerals such as Garnet, Ilmenite, Rutile, Leucoxene, Zircon and Monazite. Of these $\qquad$ is known as an atomic mineral and can be processed to yield Thorium, a nuclear fuel.
49. According to Gagandeep Singh Bedi Report of 2013-2014, illicit beach sand mining has taken place over $\qquad$ acres in three districts alone- Tirunelveli, Thoothukudi and kanyakumari.
(a) 43
(b) 121
(c) 575
(d) 978
50. In August 2013, then Thoothukudi Collector conducts raids on VV Mineral and Transworld Garnet-India owned by where illegal sand mining was alleged and is transferred within 8 hours of the raid.
(a) Vaikuntarajan
(b) Rajeev Menon
(c) Rajesh Bhatia
(d) Vikram Rathore

## Numerical Ability

21. $\frac{(54+78+43+82+67+42+75)}{7}$

$$
=63 \mathrm{~kg}
$$

22. Let the numbers be $4 \times, 5 \times$ and $6 x$.

Then,$\frac{4 x+5 x+6 x}{3}=25 \Leftrightarrow 5 \times=25 \Leftrightarrow \times=5$.
$\therefore$ largest number $=6 \times=30$.
23. Population after 2 years $=8500\left(1+\frac{20}{100}\right)\left(1+\frac{25}{100}\right)$

$$
=\left(8500 \times \frac{6}{5} \times \frac{5}{4}\right)=12750
$$

24. Let market price $=100$.

Then cost price $(C P)=64$, selling price $(S P)=88$
$\therefore$ Gain $\%=\left(\frac{24}{64} \times 100\right) \%=37.5 \%$
25. $\frac{A}{B}=\frac{2}{3}, \frac{B}{C}=\frac{2}{4}, \frac{C}{D}=\frac{2}{5} \Rightarrow \frac{A}{D}=\left(\frac{A}{B} X \frac{B}{C} X \frac{C}{D}\right)$

$$
=\frac{2}{3} X \frac{2}{4} X \frac{2}{5}=\frac{2}{15} \Rightarrow A: D=2: 15
$$

26. Ayesha's 1 day work $=1 / 16$ Amith 1 day work $=1 / 8$
( Ayesha + Amita )'s 1 day work $=\left(\frac{1}{16}+\frac{1}{8}\right)=\frac{3}{16}$
$\therefore$ both together can complete the work in $\frac{16}{3}=5 \frac{1}{3}$ days
27. Let the radius of the circles be $r$ and R respectively

Then, $\frac{2 \pi r}{2 \pi R}=\frac{2}{3} \Rightarrow \frac{r}{R}=\frac{2}{3} \Rightarrow \frac{r 2}{R 2}=\left(\frac{2}{3}\right) 2 \Rightarrow \frac{\pi r 2}{\pi R 2}=\frac{4}{9}$
Hence ratio of areas $=4: 9$
28. Here $s=(H H, H T, T H, T T)$

Let $\mathrm{E}=$ event of getting at least one head $=(\mathrm{HT}, \mathrm{TH}, \mathrm{HH})$
$\therefore \mathrm{P}(\mathrm{E})=\frac{n(E)}{n(S)}=\frac{3}{4}$
29. In two throws of a die, $\mathrm{n}(\mathrm{S})=(6 \times 6)=36$

Let $\mathrm{E}=$ event of getting a doublet
$=\{(3,6),(4,5),(5,4),(6,3)\}$
$\therefore P(E)=\frac{n(E)}{n(s)}=\frac{4}{36}=\frac{1}{9}$
30. Each of the numbers except 12 , is a prime number.

## Test of Reasoning

31. The terms of the given series are: $3^{1}+1,3^{2}-1,3^{3}+1,3^{4}-1,3^{5}+1$

So, missing term $=3^{6}-1=729-1=728$, so ans is (d)
32. (b): $1^{\text {st }}$ letter: A

$2^{\text {nd }}$ letter: $\mathrm{Z} \xrightarrow{-5} \mathrm{U} \xrightarrow{+(5-2)=+3} X \xrightarrow{-(3-2)=-1} W \xrightarrow{+(1-2)=-1}(\mathrm{~V})$
$3^{\text {rd }}$ letter: $Y \xrightarrow{-5}{ }^{+} \xrightarrow{+(5-2)=+3} W \xrightarrow{-(3-2)=-1}{ }^{+(1-2)=-1}$ (U)
33. (b): The series is $a b / a b / a b / a b / a b / a b$. Thus the pattern ' $a b$ ' repeated
34. (c): 'Dwarf' is the antonym of 'Giant'. Similarly, the antonym of 'Genius' is 'Idiot'.
35. (c): In each set, $2^{\text {nd }}$ number $=\left(1^{\text {st }}\right.$ number +101$)$
and $3^{\text {rd }}$ number $=\left(2^{\text {nd }}\right.$ number +101$)$
36. (b):

37. (c)
38. (C): $\frac{5 \times 6 \times 4}{10}=12 \quad \frac{6 \times 7 \times 5}{10}=21$ so missing no $=\frac{4 \times 8 \times 10}{10}=32$
39. (b)
40. (a) using the propr signs in the given expression

$$
\begin{aligned}
175 \div 25+5 \times 20-3 \times 10 & =7+5 \times 20-3 \times 10=7+100-30 \\
& =107-30=77 \\
& \text { Current Affairs }
\end{aligned}
$$

41. C, 42.D, 43.D, 44.D, 45.D, 46.D, 47.A, 48.Monazite, 49.C, 50.A

## EVERYDAY SCIENCE

1. Quartz crystals in quartz watches work on the principle called
(a) Photoelectric effect
(b) Stark effect
(c) Thermionic effect
(d) Piezo - electric effect
2. Animal which captured and readily kills living animals for its food is called
(a) Parasite
(b) Scavenger
(c) Predator
(d) Mammal
3. Television signals are converted into light signals by
(a) Optical fiber
(b) Transistor
(c) Decoder
(d) Photodiode
4. Chemical used to kill rats and mice are (a) Insecticides (b) Rodenticides (c) Fungicides (d) Herbicides
5. Which of the following in the human body is popularly called the Adam's apple?
(a) Adrenal
(b) liver
(c) Thyroid
(d) Thymus
6. Phosphorus is an essential component of one of the following biological molecules.
(a) Amino acid
(b) Nucleic acid
(c) Carbohydrate
(d) none of these
7. Serum is blood plasma minus is (a)Calcium ion (b) Clotting proteins (c) Globulins (d) none of these
8. In a very low temperature which from the following will freeze at least?
(a) River water
(b) Canal water
(c) Sea water
(d) Water in a lake
9. In night, when photosynthesis is stopped plants
(a) Take in Carbon dioxide (b) Take in oxygen
(c) give off Carbon dioxide
(d) give off Oxygen
10. $\qquad$ are called the power house of the cell
(a) Mitochondria
(b) lungs
(c) liver
(d) vesicles

## GENERAL STUDIES

11. "S4A" a new scheme has been introduced by the Reserve Bank of India (RBI) for resolution of stressed assets. What does S4A stands for?
a) Scheme for susceptible structuring of stressed assets b) Scheme for sensible structuring of stressed assets.
c) Scheme for suitable structuring of stressed assets. d) Scheme for sustainable structuring of stressed assets.
12. Consider the following statements relating to the reserve bank of India (RBI):
a) As the agent of the central government, the RBI under take distribution of one rupee coins issued by the government of India.
b) it acts as on agent of the government of India in respect of India's membership of international monetary fund.
c) It also handles the borrowing programme of the central and state governments. d) it was nationalized in 1935.
13. Monetary policy is formulated by the RBI on advice and input from
1) Discussion with credit heads of banks
2) Ministry of finance, GOI.
3) Technical advisory committee on monetary policy
d) Feedback from financial institutions.

Which of the above are correct?
a) 2,3 and 4 only b) 1,3 and 4 only ci) 2 and 4 only d) all the above
14. Which of the following would increase the money supply in the economy?

1. a scheduled commercial bank issuing a cheque to its customer 2. Reduction in Cash Reserve Ratio (CRR)
2. a customer depositing a money in scheduled commercial bank 4. the RBI issuing fresh currency

Choose the correct answer by using the codes given below:
a) 1, 2 and 3 only
b) 1, 3 and 4 only
c) 2,3 and 4 only
d) 2 and 4 only.
15. Which if the following taxes would be impacted by the goods and services tax (GST) Bill, recently passed
by the government?

1) Corporate tax
2) Service tax
3) Octroi and entry tax

Select the correct answer using the code given below: a) 1 and 2 b) 1 only c) 2 and 3 d) 1,2 and 3
16. Consider the following statements about NABARD (National Bank For Agriculture and Rural Development):

1. NABARD is the apex institution in the country which looks after the development of the cottage industry, small industry and village industry, and other rural industry.
2. NABARD refinances the financial institutions which finance the rural sector.
3. it regulates the co operative banks, regional rural banks and self help groups.

Which of the statements given above are correct?
a) 2 and 3
b) 1 and 2
c) 1 and 3
d) all the above
17. Consider the following statements about (Special Economic Zones) SEZ's in India?

1. SEZs are set up to promote goods manufacturing only.
2. SEZs are exempted from central sales tax but they are required to pay service tax at concessional rate.
3. All labour laws are applicable in special economic zones.

Which of the above statement is / are correct? a) Only $1 \quad$ b) only $2 \quad$ c) only $3 \quad$ d) 1 and 2
18. Consider the following statements regarding Comptroller and Auditor General of India:
1.Comptroller and auditor general shall be appointed by the president. 2. the salary and other conditions of service of the comptroller and auditor general shall be determined by the President.
3. Salary of comptroller and auditor general shall be charged upon consolidated fund of India.

Choose the correct statements:
a) 1 and 3
b) 2 and 3
c) only 1
d) 1, 2 and 3
19. Which organization publishes the fiscal monitor?
a) world bank
b) development bank
c) IMF d) UNDP

1. NABARD was established in 1982 through a parliamentary act.
2. only agricultural loans are provided by it.

Which of the above statements is/are correct? a) 1 and 2 b) 1,2 and 3 c) 1,2 and 4 d) all of the above.

## CURRENT AFFAIRS

21. Which is the first country to give voting rights to women? a)Poland (b) Finland (c) Ireland (d) New Zealand.
22. Which is the major edible oil produced in India? (a) Gingili oil
(b) Soya oil
(c) Groundnut oil
(d) Mustard oil.
23. 'Oncology' is a branch of medicine dealing with $\qquad$ (b) Sona
(a) Kidney diseases
(b) Eye diseases
(c) Cancer
(d) Bone diseases.
24. 'Santosh Trophy' is associated with $\qquad$ (a) Football (b) Weight Lifting (c) Hockey (d) Cricket.
25. Human Rights day is celebrated on the $\qquad$ (a) $8^{\text {th }}$ January (b) $5^{\text {th }}$ October
(c) $10^{\text {th }}$ December (d) $23^{\text {rd }}$ June
26. Who introduced voting age from 21 to 18 in India? a) Indira Gandhi b) Moragi Dhesai c) Rajiv Gandhi d) V.P. Singh
27. Which one of the following is the state animal of Tamil Nadu?
(a) Manapparai Bull
(b) Nilgiri Thar
(c) Mundanthurai Tiger
(d) Mudumalai Elephant.
28. Special Education programmes were developed by $\qquad$ (a) UNO
(b) WHO (c) UNESCO
(d) ILO
29. There is/are $\qquad$ women's Universitie(s) in Tamil Nadu.
(a) 4
(b) 3
(c) 2
(d) 1
30. The typical season of whirl winds is
(a) Summer
(b) Winter
(c) Rainy Season
(d) Autum.

## QUANTITATIVE APTITUDE

31. The ratio of the present ages of a mother and her daughter is $7: 1$. Four year ago, the ratio of their ages was 19:1. What will be the mother's age four year from now?
(a) 42 years
(b) 38 years
(c) 46 years
(d) 36 years
(e) None of these
32. $(81)^{4} /(9)^{5}=$ ?
(a) 9
(b) 81
(c) 729
(d) 6561
(e) None of these
33. $(19)^{12} \times(19)^{8} /(19)^{4}=(19)^{?}$
(a) 6
(b) 8
(c) 12
(d) 24
(e) None of these
34. The value of $\log _{2} 16$ is (a) $1 / 8$
(b) $4 \quad(\mathrm{c}) 8$
(d) 16
(e) None of these
35. The value of $\log _{10}(0.0001)$ is $\begin{array}{lllll}\text { (a) } 1 / 4 & \text { (b) }-1 / 4 & \text { (c) }-4 & \text { (d) } 4 & \text { (e) None of these }\end{array}$
36. How is $3 / 4$ expressed as percentage? (a) $0.75 \%$ (b) $7.5 \% \quad$ (c) $75 \% \quad$ (d) $60 \% \quad$ (e) None of these
37. The ratio 5: 4 expressed as percent equals $\quad$ (a) $12.5 \% \quad$ (b) $40 \% \quad$ (c) $80 \% \quad$ (d) $125 \% \quad$ (e) None of these
38. $P$ and $Q$ started a business investing Rs: 85000 and Rs: 15000 respectively. In what ratio the profit earned after 2 years be divided between $P$ and $Q$ respectively?
(a) $3: 4$
(b) $3: 5$
(c) $15: 23$
(d) $17: 23$
(e) None of these
39. If a quarter Kg of potato costs 60 paise, how many paise will 200 gm cost?
(a) 48 paise
(b) 54 paise
(c) 56 paise
(d) 72 paise
(e) None of these
40. $48,23, ?, 4.25,1.125$
(a) 10.5
(b) 10
(c) 2.5
(d) 11
(e) None of these

## TEST OF REASONING

41. In a certain code SPORADIC is written as QNORDJEB. How is TROUBLES written in that code?
(a) SQTNTFMC
(b) TNQSRDKA
(c) TNQSTFMC
(d) TFQSCMFT
42. Three of the following four are alike in a certain way and so form a group. Which is the one that does not belong to that group? (a)Zinc $\quad$ (b) Iron $\quad$ (c) Aluminium $\quad$ (d) Chlorine
43. Milk: Butter
(a) Banana : Fruit
(b) Wood : Paper
(c) Juice : Health
(d) Chilli : Spices
44. The door of Aditya's house faces the east. From the backside of his house, he walks straight 50 meters, then turns to the right and walks 50 meters again. Finally, he turns towards left and stops after walking 25 meters. Now, Aditya is in which direction from the starting point?
(a) South-east
(b) North-east
(c) South-west
(d) North-west
45. BGF, CHG, DIH, EJI, '"?'" (a) FLM $\quad$ (b) FKL $\quad$ (c) FKJ $\quad$ (d) FJK
46. Horse : Cow
(a) Milk : Ice-cream
(b) Mars : Moon
(c) Snow : Water
(d) Pink : Blue
47. My office is to the east of the bus stand while my residence is to the south of the bus stand. The market is to The north of my office. If the distance of the market from my office is the same as the distance from my residence to the bus stand, then in which direction is the market with respect to the bus stand?
(a) South-west
(b) North-east
(c) East
(d) North
48. If a student walks from his house to school at 5 kmph , then he is late by 30 minutes. However, if he walks 6 kmph , then he is late by 5 minutes only. The distance of his school from his house is
(a) 12.5 km
(b) 10.6 km
(c) 5.5 km
(d) 3.6 km
49. GHIZ, JKLY, MNOX, '' ? ', , STUV $\quad$ (a)OPQY $\quad$ (b) PQRS $\quad$ (c) PQRW (d) PQRV
50. Bird : Cage
(a) Antique : Museum
(b) Crime : Punishment (c)Thief : Prison
(d) Animals : Zoo

## ANSWERS (GK 4)

## EVERYDAY SCIENCE:

$\begin{array}{lllllllll}1 . \mathrm{D} & \text { 2.C } & \text { 3.D } & \text { 4.B } & \text { 5.C } & \text { 6.B } & \text { 7. B } & \text { 8.C } & \text { 9.C }\end{array}$ 10.A
GENERAL STUDIES:
11.D $12 . \mathrm{D}$ 13.B $14 . \mathrm{D}$ 15.C $\quad 16 . \mathrm{B} \quad 17 . \mathrm{C}$ 18.A $19 . \mathrm{C}$ 20.C

CURRENT AFFAIRS:
$\begin{array}{lllllllll}\text { 21.D } & \text { 22.C } & \text { 23.D } & \text { 24.A } & \text { 25.C } & \text { 26.C } & \text { 27.B } & \text { 28.C } & \text { 29.D }\end{array}$ 30.A
QUANTITATIVE APTITUDE:
$\begin{array}{llllllllll}31 . \mathrm{C} & 32 . \mathrm{C} & 33 . \mathrm{E} & 34 . \mathrm{B} & 35 . \mathrm{C} & 36 . \mathrm{C} & 37 . \mathrm{D} & 38 . \mathrm{E} & 39 . \mathrm{A} & 40 . \mathrm{A}\end{array}$
31. Sol: Let mother's age be 7 x years. Then, daughter's age $=\mathrm{x}$
$7 x-4=19(x-4)$
$19 x-7 x=76-4$
$12 x=72 ; x=6$
Mother's age after 4 years $=(7 x+4) ;=(7 \times 6+4)$ years $=46$ years
32. Sol: $(81)^{4} /(9)^{5}=\left(9^{2}\right)^{4} /(9)^{5}=(9)^{8} /(9)^{5}=9^{(8-5)}=9^{3}=729$
33. Sol: $(19)^{12} \mathrm{x}(19)^{8} /(19)^{4}=(19)^{12+8} /(19)^{4}=(19)^{20} /(19)^{4}=19^{(20-4)}=19^{16}$
34. Sol: $\log _{2} 16=\log _{2} 2^{4}=4 \log _{2} 2=4$.
35. Sol: $\log _{10}(0.0001)=\log _{10}(1 / 10000)=\log _{10}\left(1 / 10^{4}\right)=\log _{10} 10^{-4}=-4 \log _{10} 10=-4$
36. Sol: $3 / 4=(3 / 4 \times 100) \%=75 \%$
37. Sol: $5: 4=5 / 4=(5 / 4 \times 100) \%=125 \%$
38. Sol: $P: Q=85000: 15000=85: 15=17: 3$
39. Sol: Let the required cost be x paise

Less weight, Less cost (Direct Proportion)
250: 200: : $60: x$
$250 x=(200 \times 60) ; \quad x=(200 \times 60) / 250=48$
40. Sol: It follows by $2 x+2$ series from R.H.S (1.125) x $2+2=4.25$; (4.25) $\times 2+2=10.5$ etc.,

TEST OF REASONING:

| 41.C | 42.D | 43.B | 44.D | 45.C | 46.D | 47.B | 48.A | 49.C |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

.41. (C)

42. (D) Except chlorine, all others are metals. Chlorine is non-metal.
43. (B) Second is a product obtained from the first.
44. (D)

45. (C) Letters move +1 step
46. (D) Horse and cow are different animals. Pink and blue are different colours (Both are independent). All others are interrelated.
47. (B)

48. (A)

$$
\begin{aligned}
& \frac{x}{5}-\frac{30}{60}=\frac{x}{6}-\frac{5}{60} \\
\longrightarrow & \frac{\times}{5}-\frac{\times}{6}=\frac{-1}{12}+\frac{1}{2}=\frac{5}{12} \\
\longrightarrow & \times \frac{5}{12} \\
\longrightarrow & \times=\frac{5}{12} \times 30=12.5
\end{aligned}
$$

49.(C) Letters move $+3,+3,+3,-1$ steps. 50. (C) Second is the place where the first is forcibly kept.

\title{

VIVEKANANDA COLLEGE, TIRUVEDAKAM WEST-625234 GENERAL KNOWLEDGE

## EVERYDAY SCIENCE

}

## EVERYDAY SCIENCE

}

1. Which one of the following types of Laser is used in Laser Printers?
A. Semiconductor laser
B. Excimer Laser
C. Dye Laser
D. Gas Laser
2. Chlorophyll is a naturally occurring chelate compound in which central metal is
A. Copper
B. Magnesium
C. Iron
D. Calcium
3. Gammaxene, D.D.T. and Bleaching powder are important compounds of :
A. Chlorine
B. Nitrogen
C. Sulphur
D. Phosphorus
4. Which one of the following is used for sun glasses?
A. Crooks glass
B. Pyrex glass
C. Crystal glass
D. None of the above
5. A re-usable space rocket is called A. Apollo $\quad$ B. Satellite $\quad$ C. Space shuttle D. Skylab
6. Which of the following rays is used for eliminating bacteria?
A. Alpha rays
B. Infrared rays
C. Ultra-violet rays
D. Microwave rays
7. Which of the following is used in pencils? A. Graphite $\quad$ B. Silicon $\quad$ C. Charcoal $\quad$ D. Phosphorous
8. Which of the following substance is or chemicals is obtained from plants
A. Insulin
B. Quinine
C. Chloromycetin
D. Aspirin
9. Tetraethyl lead is used as $\quad$ A. pain killer $\quad$ B. fire extinguisher $\quad$ C. mosquito repellent $\quad$ D. petrol additive
10. Pest-resistant cotton commonly known as 'Bt-Cotton' is genetically engineered by inserting a gene from a:
A. Bacterium
B. Virus
C. Microalgae
D. Protist
11. The LPG model of development was introduced in___ by the Finance Minister(Group - I - GS - 2017) A. 1991, Manmohen Singh B.1995, Pranab Muharji C.2000, P.Chidambaram D.2010, Yaswant Singa
12. What is / are the purpose / purposes of Government's 'Sovereign Gold Bond Scheme and "Gold Monetization Scheme? (IAS 2016 GS - I)
13. To bring the idle gold lying with Indian household $s$ into the economy
14. To promote FDI in the gold and jewellery sector 3. To reduce India's dependence on gold imports

Select the correct answer using the code given below. A. 1 only B. 2 \& 3 only C. $1 \& 3$ only D.1, 2 \& 3
13. The Government of India has established NITI Aayog to replace the (IAS Prelims GS - I 2015)
A. Human Rights Commission B. Finance Commission C. Law Commission D. Planning Commission
14. Balance of Payment ( BOP ) of a country is a systematic record of (IAS Prelims 2014 GS - I )
A. All import and export transactions of a country during a given period of time normally a year
B. Goods exported from a country during a year C. Economic transaction between the government of one transaction of one country to another D. Capital movements from one country to another
15. Mixed Economy refers to $\qquad$ TNFS PAPER - I (GS)- 2014
A. Coexistence of Small and Larger industries $\quad$ B. Coexistence of Agriculture and Industry
C. Coexistence of Public and Private Sector D. Coexistence of Domestic and Foreign Enterprises
16. If the interest rate is decreased in an economy, it will be (IAS Prelims GS - I 2015)
A. Decrease the consumption expenditure in economy $\quad$ B. Increase the tax collection of the government
C. Increase the investment expenditure in the economy D. Increase the total saving in the economy
17. Which one of the following is not a quantitative credit control measure of Central Bank? SSC - 2011
A. Bank Rate Policy B. Open Market Operation C. Cash Reserve Ratio D. Moral Suasion
18. Which of the following statements is an appropriate description of deflation? IAS- 2010
A. It is a sudden fall in the value of a currency against other currencies $\quad$ B. It is persistent recession in both the financial and real sectors of economy C. It is a persistent fall in the general piece level of goods and services D. It is a fall in the rate of inflation over a period of time
19. When the RBI announces an increase of CRR, what does it mean? (IAS Prelims 2014 G-I)
A. The commercial banks will have less money to lend B. The RBI will have less money to lend
C. The union government will have less money to lend D.The commercial banks will have more money to lend
20. Disguised unemployment generally means (IAS Prelims 2013 GS - I )
A. Large number of people remain unemployment
B. Alternative employment is not available
C. Marginal productivity of labour zero
D. Productivity of workers is low

## CURRENT AFFAIRS

21. Swaroop Committee is associated with
(a) Financial products marketing
(b) Sugar marketing
(c) Banking
(d) Capital marketing
22. Who has been appointed as the India's new Ambassador to France?
(a) Vinay Mohan
(b) Braendra Navnit
(c) Rajv Topno
(d) Nileh Jain
23. The council of Minister is collectively responsible to which of the following?
(a)Prime Minister
(b) President
(c) Rajya Sabha
(d) Lok Sabha
24. Who among the following can join the National Pension System (NPS)?
(a) Resident Indian citizens only (b) Persons of age from 21 to 55 only (c) All State Government employees joining the services after the date of notification by the respective state Governments. (d) All Central Government employees including those of Armed Forces joining the services on or after $1^{\text {st }}$ April, 2004
25. Biological Oxygen Demand (BOD) is a standard criterion for
(a) Measuring oxygen levels in blood
(b) Computing oxygen levels in forest ecosystems
(c) Pollution assay in aquatic ecosystems
(d) Assessing oxygen levels in high altitude regions
26. Which of the following practices can help in water conservation in agriculture?
I. Reduced or zero tillage of the land? II. Applying gypsum before irrigating the field?
III. Allowing crop residue to remain in the field? Select the correct answer using the code given below:
(a) I and II only
(b) III only
(c) I and III only
(d) I, II and III
27. Which of the following is/are famous for Sun temples?(a) Arasavalli (b) Amarakantak (c) Omkareshwar Select the correct answer using the code given below: a) I only (b) II and III only (c) I and III only (d) I, II and III
28. Mid-Day Meal Scheme was started in the year?
$\begin{array}{ll}\text { (a) } 1995 & \text { (b) } 1996\end{array}$
(c) 1997
(d) 1998
29. Which among the following has the world's largest reserves of uranium?
(a) Australia
(b) Canada
(c) Russia
(d) USA
30. Which one of the following is not a good source of nutrition calcium? (a) Rice (b) Ragi (c) Skimmed milk (d) Egg

QUANTITATIVE APTITUDE
31. Complete the following series
$9,11,15,23,39$, ?
a) $71 \quad$ b ) 64
c) 42
d) 56
32. 48, 23. ? , 4.25, 1.125
a) 10.5
b) 10
c) 2.5
d) 11
33. An basket contains 6 red, 4 blue, 2 green and 3 yellow marbles. If two marbles are drawn at random from the basket, what is the probability that both are red?
$\begin{array}{ll}\text { a) } \frac{1}{6} & \text { b) } \frac{1}{7}\end{array}$
c) $\frac{2}{15}$
d) $\frac{2}{5}$
34. A bag contains 3 blue, 2 green and 5 red balls. If four balls are picked at random, what is the probability that two are green and two are blue?
$\begin{array}{ll}\text { a) } \frac{1}{18} & \text { b) } \frac{1}{70}\end{array}$
c) $\frac{3}{5}$
d) $\frac{1}{2}$
35. In how many different ways can the letters of the word 'BAKERY' be arranged?
a) 2400
b) 2005
c) 720
d) 5040
36. In how many ways can be the letters of the word 'MOMENT' be arranged? a) 360 b) 60 c) 720 d) 120
37. What would be the area of a rectangle whose area is equal to the area of a circle of radius 7 cm ?
a) $77 \mathrm{~cm}^{2}$
b) $154 \mathrm{~cm}^{2}$
c) $184 \mathrm{~cm}^{2}$
d) $180 \mathrm{~cm}^{2}$
38. If the total surface area of a cube is 864 square cm , find the volume of the cube:
a) $1728 \mathrm{~cm}^{3}$
b) $1624 \mathrm{~cm}^{3}$
c) $144 \mathrm{~cm}^{3}$
d) $1684 \mathrm{~cm}^{3}$
39. The interest earned on Rs. 15000 in 3 years at simple interest is Rs. 5400 . Find the rate of interest per annum
a) $11.5 \%$
b) $12 \%$
c) $12.5 \%$
d) $15 \%$
40. A, B, and C can complete a piece of work in 24,5 , and 12 days respectively. Working together, they will complete the same work in
$\begin{array}{ll}\text { a) } \frac{7}{24} \text { days } & \text { b) } 3 \frac{3}{7} \text { days }\end{array}$
c) 4 days
d) $3 \frac{1}{13}$ days

## TEST OF REASONING

41. Choose the odd pair of words
a) Volume :Litre (b)
(b) Time : Seconds
(c) Length : Metre (d) Resistance : Ohm (e)
: Barometer
(d) QPRS
42. Choose the odd one :
(a) EDKL
(b) LMST
(c) NMUV
(S.S.C. 1996)
43. Fill in the blank space: $19,2,38,3,114,4,(--)$
(d) 456
44. If $\mathrm{GO}=32, \mathrm{SHE}=49$, then SOME will be equal to $($ S.S.C. 1996) $\quad$ (a) 56 (b) 58 (c) $62 \quad$ (d) 64
45. If white is called blue, blue is called red, red is called yellow, yellow is called green, green is called black, black is called violet and violet is called orange, what would be the colour of human blood ?
(a) Red
(b) Green
(c) Yellow
(d) Violet
(e) Orange
46. 


(c) 1
(d) 4
(e) 5
(a) 2
(b) 3
47.


ANSWER FIGURES

(a) 3
(b) 2
(c) 4
(d) 1
(e) 5
48.


ANSWER FIGURES

49. Choose the figure which is different from the rest

50. What is the number of straight lines in the following figure?
(a) 11
(b) 14
(c) 16
(d) 17


## ANSWERS (GK 5)

| EVERYDAY SCIENCE: | 1.A | 2.B | 3.A | 4.A | 5.C | 6.C | 7.A | 8.B | 9.D | 10.A |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| GENERAL STUDIES: | 11.A | 12.C | 13.D | 14.C | 15.C | 16.C | 17.D | 18.C | 19.A | 20.C |
| CURRENT AFFAIRS: | 21.A | 22.A | 23.D | 24.D | 25.C | 26.D | 27.A | 28.A | 29.A | 30.A |
| QUANTITATIVE APTITUDE: | 31.A | 32.A | 33.B | 34.B | 35.C | 36.A | 37.B | 38.A | 39.B | 40.D |

$31.9+2=11, \quad 11+4=15,15+8=23,23+16=39,39+32=71$
Ans : a) 71
32. It follows by $2 \mathrm{x}+2$ series form R.H.S

Ans: a) 10.5
=> (1.125) x $2+2=4.25 \Rightarrow>(4.25) \times 2+2=10.5 \Rightarrow>(10.5) \times 2+2=23 \Rightarrow$ (23) x $2+2=48$
33. Total number of balls $=(6+4+2+3)=15$

Let E be the event of drawing 2 red balls.
Then,

$$
\mathrm{n}(\mathrm{E})={ }_{6} \mathrm{C}_{2}=\frac{6 \times 5}{2 \times 1}=15, \quad \mathrm{n}(\mathrm{~s})={ }_{15} \mathrm{C}_{2}=\frac{15 \times 14}{2 \times 1}=105, \mathrm{P}(\mathrm{E})=\frac{n(\mathrm{E})}{n(S)}=\frac{15}{105}=\frac{1}{7} \text { Ans : b) } \frac{1}{7}
$$

34. Number of blue balls $=3$ balls

Number of green balls $=2$ balls, $\quad$ Number of red balls $=5$ balls
Total balls in the bag $=3+2+5=10$, Total possible outcomes $=$ Selection of 4 balls out of 10 balls, ${ }_{10} \mathrm{C}_{4}=\frac{10!}{4!\times(10-4)!}=\frac{10 \times 9 \times 8 \times 7}{4 \times 3 \times 2 \times 1}=210$
Favourable outcomes $=$ (selection of 2 green balls out of 2 balls) $x$ (selection of 2 balls out of 3 blue balls)
$={ }_{2} \mathrm{C}_{2} \mathrm{X}_{3} \mathrm{C}_{2}=\frac{2 \times 1}{2 \times 1} \mathrm{x} \frac{3 \times 2 \times 1}{2 \times 1}=1 \times 3=3$
Required probability $=\frac{\text { Favorable out comes }}{\text { Total possible outcomes }}=\frac{3}{210}=\frac{1}{70}$
Ans :b) $\frac{1}{70}$
35. The letters of the word 'BAKERY' be arranged in 6 ! ways st. $6!=6 \times 5 \times 4 \times 3 \times 2 \times 1=720 \quad$ Ans: c) 720
36. There are six letters in the given word MOMENT and letter ' $M$ ' has come twice

Required number of ways $=\frac{6!}{2!}=\frac{6 \times 5 \times 4 \times 3 \times 2 \times 1}{2 \times 1}=360 \quad$ Ans:a) 360
37. Radius of circle $=7 \mathrm{~cm}$

Given Area of rectangle $=$ Area of circle $=\pi r^{2}=\frac{22}{7} \times 7 \times 7=22 \times 7=154 \mathrm{~cm}^{2} \quad$ Ans:b) $154 \mathrm{~cm}^{2}$
38. Each edge of cube $=\mathrm{acm}$

Total surface area of cube $=6 a^{2}$
$\Rightarrow 6 \mathrm{a}^{2}=864$
$\Rightarrow a^{2}=\frac{864}{6}=144$
$\Rightarrow \mathrm{a}=\sqrt{144}=12 \mathrm{~cm} \quad$ A Volumn of cube $=\mathrm{a}^{3} \mathrm{cu} . \mathrm{cm}=(12 \times 12 \times 12) \mathrm{cu} . \mathrm{Ccm}$.
$=1728 \mathrm{cu} . \mathrm{cm}$.
Ans: a) $1728 \mathrm{~cm}^{3}$
39. Rate $=\frac{\text { Simple Interest } \times 100}{\text { Principal } \times \text { Time }}=\frac{5400 \times 100}{15000 \times 3}=12 \%$ per annum

Ans: b) $12 \%$
40. A' 1 days work $=\frac{1}{24}$
$B^{\prime} 1$ days work $=\frac{1}{5}, \quad C^{\prime} 1$ days work $=\frac{1}{12}, \quad(\mathrm{~A}+\mathrm{B}+\mathrm{C}){ }^{\prime}$ 's 1 days work $=\frac{1}{24}+\frac{1}{5}+\frac{1}{12}$
LCM of 24,5 , and 12

| 2 | 24 | 5 | 12 |
| :---: | :---: | :---: | :---: |
| 2 | 12 | 5 | 6 |
| 3 | 6 | 5 | 3 |
|  | 2 | 5 | 1 |

$2 \times 2 \times 3 \times 2 \times 5=120$
$=\frac{5+24+10}{120}=\frac{39}{120}=\frac{13}{40}$
Time taken by A, B, and C to complete the Work, working together, $=\frac{40}{13}=3 \frac{1}{13}$ days Ans: d) $3 \frac{1}{13}$ days

## TEST OF REASONING:

41.E $\quad$ 42.B $\quad$ 43.D $\quad$ 44.A $\quad$ 45.C $\quad$ 46.D $\quad$ 47.B $\quad$ 48.C $\quad$ 49.C $\quad$ 50.B
41. Clearly, the answer is (E). In all other pairs, second is the unit to measure the first. On the other hand, barometer is an instrument.
42. (B) : In all other groups, the first two letters are in a reverse alphabetical order.
43. (D): The sequence is a combination of two series :
I. $19,38,114,(---)$ and II. $2,3,4$. The pattern followed in I is $\mathrm{x} 2, \mathrm{x} 3, \ldots$

Missing number $=114 \times 4=456$.
44. (A): In the given code. $Z=1, Y=2, X=3 \ldots . C=24, B=25$, and $A=26$.

So, $\mathrm{GO}=20+12=32$ and $\mathrm{SHE}=8+19+22=49$. Similarly, SOME $=8+12+14+22=56$.
45. (C): The colour of the human blood is 'red' and as given, 'red' is called 'yellow'. So, the colour of human blood is 'yellow'.
46. (D): The shading moves CW two and three steps alternatively.
47. (B): Arrow moves CW $45^{\circ}$ and pin moves ACW $45^{\circ}$ in each step.
48. (C) The figure is replaced by a figure with two sides more and the new figure is shaded.
49. (C) All other figures are divided into 4 parts.
50. (B) 14. There are 3 horizontal lines, 5 vertical lines and 6 slanting lines. Hence there are 14 straight lines.

1. Plants receive their nutrients mainly from
a) chlorophyll
b) atmosphere
c) light
d) soil
2. Which of the following is the main nitrogenous waste in humans
a) ammonia
b) urea
c) uric acid
d) ammonium nitrate
3. Most highly intelligent mammals are
a) whales
b) dolphins
c) elephants
d) kangaroos
4. Bamboo is classified as a) buch $\quad$ b) tree c)weed $\quad$ d) grass
5. Potato is a modified form (out growth) of
a) root
b) stem
c) fruit
d) leaf
6. An alloy is a homogeneous mixture of
a) two solids
b) two liquids
c) two metals
d) two non-metals
7. The cleansing action of soaps and detergents is due to
a) internal friction
b) high hydrogen bond
c) surface tension
d) viscosity
8. Heat from the sun reaches the Earth by
a) convection
b) conduction
c) radiation
d) reflection
9. The tendency of a process to occur naturally is called
$\begin{array}{llll}\text { a) momentum of the reaction } & \text { b) spontaneity of the reaction } & \text { c) equilibrium of the reaction } & \text { d) none of these }\end{array}$
10. A man presses more weight on earth at
a) sitting position
b) standing position
c) lying position
d) none of these

## GENERAL STUDIES

11. Which of the following statements is/are correct regarding fiscal deficit?
12. It leads to deflation in economy 2 . It leads to increase in primary deficit

Select the correct answer using the code given below:
(a) 1 only
(b) 2 only
(c) Both 1 and 2
(d) Neither 1 nor 2
12. Which among the following are included in the Priority Sectors for Lending by the commercial banks?
1.Housing 2.Education 3.Export Credit 4.Renewable Energy

Select the correct answer using the code given below: (a) 1,2 and $4 ~(b) 1$ and 3 (c) 2 and $4 \quad$ (d) 1, 2, 3 and 4
13, With regard to the Sixth Five Year Plan, consider the following statements:

1. It was started in 1980 2. The concept of Rolling Plan was introduced in it,
Which of the statement given above is/are correct?
(a)1 only
(b) 2 only (c) Both 1 and 2
(d) Neither 1 nor 2
2. Which of the following comes/come under the head of Current Account?
1.Remittances from abroad 2.Foreign Institutional Investment (FII) 3.Export of software services

Select the correct answer using the code given below: (a)1 only
(b) 3 only
(c) 1 and 3
(d) All of the above
15. The first Newspaper in India was $\qquad$ (a) Sambad Kaumudi
(b)Bengal Gazette (c)Marat-ul Akbar (d)Pioneer
16. Which of the following pairs is/are not correctly matched?

| School/College |  |  | Founder |
| :--- | :--- | :---: | :--- |
| 1. | Calcutta Madarsa | $:$ | Warren Hastings |
| 2. | Governement Sanskrit College of |  |  |
| Be Benaras | $:$ | Annie Besant |  |
| 3. | Asiatic Society of Bengal | $:$ | William Jones |
| 4. | Banaras Hindu University | $:$ | Madan Mohan Malaviya |

(a) 1 only
(b) 2 and 3
(c) 1 and 4
(d) 2 only
17. Recently Government introduced Merchandise Exports from India Scheme (MEIS)
(a) To promote export of services sectors in India
(b)To promote exports of Made in India products in India
(c) To promote export of notified goods
(c) None of the above
18. When people do not have productive full-time employment, but are not counted in the official unemployment statistics is called $\qquad$
(a) Frictional Unemployment $\quad$ b)Under Employment $\quad$ c) Disguised Unemployment $\quad$ d) Structural Unemployment
19. Among the following who are eligible to benefit from the "Mahatma Gandhi National Rural Employment Guarantee Act (MGNREGA)"?
(a)Adult members of only the scheduled caste and scheduled tribe households
(b) Adult members of below poverty line households
(c) Adult members of households of all backward communities (d)Adult members of any household
20. What is BHIM?
(a) It is medium range sub-sonic missile
(b)It is a software developed for NISAR
(c) It is an mobile app developed for bill payments
(d) None of the above

## CURRENT AFFAIRS

21. Which Indian organisation has designed and build the Dr APJ Abdul Kalam memorial?
[A] Indian Space Research Organisation (ISRO)
[B] Vikram Sarabhai Space Centre (VSSC)
[C] Defence Research and Development Organisation (DRDO)[D] Bhabha Atomic Research Centre (BARC)
22. The Union Government has approved climate change projects for which three states under NAFCC?
[A] Madhya Pradesh, Rajasthan and Haryana
[B] Uttar Pradesh, Madhya Pradesh and Gujarat
[C] Karnataka, Sikkim and Assam
[D] Rajasthan, Gujarat and Sikkim
23. Which state will be the focus state at the 2017 World Food India (WFI)?
[A] Kerala
[B] Assam
[C] Mizoram
[D] West Bengal
24. Which city has become the India's first city to use robot to control unruly traffic?
[A] Indore
[B] Pune
[C] Kochi
[D] Raipur

25 .Which Indian personality has been honoured with the "Social Entrepreneur of the Year" award at The $7^{\text {th }}$
Asian Awards in London?
[A] Priti Patel
[B] Zayn Malik
[C] Nisha Dutt
[D] Asha Bhosle
26. Which bank has become the first Indian bank to launch bio-degradable prepaid gift cards?
[A] Axis Bank
[B] ICICI Bank
[C] State Bank of India
[D] HDFC Bank
27. Which Indian American has been chosen for the 2017 NASA Astronaut Candidate Class?
[A] Kayla Barron
[B] Jasmin Moghbeli
[C] Robb Kulin
[D] Raja Chari
28. The Mahananda Wildlife Sanctuary (MWS) is located in which state?
[A] West Bengal
[B] Uttar Pradesh
[C] Bihar
[D] Assam
29.Which country is hosting the 2017 G7 summit? [A] Japan [B] Canada [C] Italy [D] Germany
30. The book "Mann Ki Baat: a social revolution on radio" has been authored by whom?
[A] Jitendra Singh
[B] UdayMahurkar
[C] Pankaj Kumar
[D] Rajesh Jain

## QUANTITATIVE APTITUDE

31. Find the highest common factor of 36 and 84 .
(a) 4
(b) 6
(c) 12
(d) 18
32. $1148 \div 28 \times 1408 \div 32=$ ?
(a) 1800
(b) 1804
(c) 1814
(d) 1822
33. $1 \frac{3}{4}-1 \frac{1}{5}+1 \frac{5}{8}=$ ?
(a) $2 \frac{7}{40}$
(b) $3 \frac{7}{40}$
(c) $9 \frac{5}{8}$
(d) $3 \frac{7}{40}$
34. $\frac{\sqrt{196}}{7} \times \frac{\sqrt{441}}{7} \times \frac{120}{\sqrt{225}}=$ ?
(a) 48
(b) 54
(c) 58
(d) 84
35. The monthly income of five persons are $1132,1140,1144,1136$ and 1148 respectively. What is their
arithmetic mean?
(a) 1100
(b) 1120
(c) 1132
(d) 1140
36. Kunal bought 65 books for rs 1050 from one shop and 50 books for rs 1020 from another. What is the
average price he paid per book?
(a) 18
(b) 18.20
(c) 24
(d) 36.40
37. The ages of $A$ and $B$ are in the ratio $6: 5$ and the sum of their ages is 44 years. What will be the ratio of their $\begin{array}{lllll}\text { ages after } 8 \text { years? } & \text { (a) } 7: 6 & \text { (b) } 8: 7 & \text { (c) } 9: 8 & \text { (d) } 3: 4\end{array}$
38. Mr Kashyap purchased an airconditioner for rs 12000 and sold it for rs 15000 . What was the profit
percentage?
(a) 15
(b) 20
(c) 25
(d) 35
39. A farmer borrowed rs 3600 at $15 \%$ simple interest per annum. At the end of 4 years, he cleared this account by paying rs 4000 and a cow. the cost of the cow is $\begin{array}{lllll}\text { (a) } 1000 & \text { (b) } 1200 & \text { (c) } 1550 & \text { (d) } 1760\end{array}$
40. 8, 27, 64,100,125, 216, 343
(a) 27
(b) 100
(c) 125
(d) 343

## TEST OF REASONING

41. Pointing a gentleman, Deepak said, "His only brother is the father of my daughter's father." How is the gentleman related to Deepak. (R.R.B 2002)
a) Grandfather
b) Father
c) uncle
d) None of this
42. Kunal walks 10 km towards North. From there he walks 6 km towards South. Then he walks 3 km towards East. How far and in which direction is he with reference to his starting point?
a) 5 km West
b) 7 km West
c) 7 km East
d) 5 km North- East.
43. If P means 'division', T means 'addition', M means 'subtraction' and D means 'multiplication', then what will be the value of expression 12 M 12 D 28 P 7 T 15 ? (I.B.P.S 2002)
a) -30
b) -21
c) 15
d) 45
e) none of this
44. Find the missing term.
(PGDCA 2005)

| 1 | 2 | 3 |
| :---: | :---: | :---: |
| 4 | 5 | 6 |
| 7 | 8 | 9 |
| 27 | 38 | $?$ |

a) 49
b) 50
c) 51
d) 52
45. A train is coming and you are standing at the station. Suddenly You notice that the railway track is broken. You will
a) leave the station
b) inform the authority to take necessary action
c) use some means to stop train immediately
d) none of this
46. How many triangles are there in the following figure (R.R.B 2004)

a) 6
b) 10
c) 11
d) 12
47. When seen through a mirror, a clock shows $8: 30$. The correct time is a) $2: 30$ b) $3: 30 \mathrm{C}$ )) $5: 30 \mathrm{~d}) 8: 30$
48. In a certain code language, ' 123 ' means 'bright little boy', ' 145 ' means 'tall big boy' and ' 637 ' means
'beautiful little flower'. Which digit in that language means 'bright'. (R.R.B 2004)
a) 2
b) 3
c) 1
d) 4
49. Find the wrong term in the series $1,2,5,10,17,28$
a) 30
b) 28
c) 27
d) 17
50. B: 16 :: D: ?
a) 120
b) 150
c) 200
d) 256
(S.S.C 2003)

## EVERYDAY SCIENCE:

| 1.D | 2. B | 3. B | 4. C | 5. D | 6. B | 7. C | 8. C | 9. B | 10. B |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| GENERAL STUDIES: |  |  |  |  |  |  |  |  |  |
| 11. B | 12.D | 13.C | 14.C | 15.B | 16.D | 17.C | 18.C | 19.D | 20.C. |
| CURRENT AFFAIRS: |  |  |  |  |  |  |  |  |  |
| 21.C | 22.D | 23.D | 24.A | 25.C | 26.A | 27.D | 28.A | 29.C | 30.D |

## QUANTITATIVE APTITUDE:

31. $36=2^{2} \times 3^{2} \times ; 84=2^{2} \times 3 \times 7$. h.f.c $=2^{2} \times 3=12$
32. Given expression: $=41 \times 44=1804$
33. Given expression: $=\frac{7}{4}-\frac{6}{5}+\frac{13}{8}=\frac{70-48+65}{40}=\frac{87}{40}=2 \frac{7}{40}$
34. Given expression: $\frac{14}{7} x \frac{21}{7} \times \frac{120}{15}=2 \times 3 \times 8=48$
35. Arithmetic mean $=\operatorname{rs}\left(\frac{1132+1140+1144+1136+1148}{5}\right)$
$=$ Rs. $5700 / 5=$ Rs. 1140
36. Total money paid for 115 books $=\operatorname{rs}(1050+1020)=r s 2070$.

Average price paid per book $=\mathrm{rs}\left(\frac{2070}{115}\right)=\mathrm{rs} 18$
37. A's Age $=\left(44 x \frac{6}{11}\right)$ years $=24$ years and B's age $=(44-24)$ Years $=20$ years
38. c. $\mathrm{p}=\mathrm{rs} 12000$, $\mathrm{s} . \mathrm{p}=\mathrm{rs} 15000$.
profit $=$ rs $(15000-12000)=$ rs 3000.
profit $\%=\left(\frac{3000}{12000} x 100\right) \%=25 \%$
39. $\mathrm{p}=\mathrm{rs} 3600, \mathrm{r}=15 \%, \mathrm{t}=4$ years.

$$
\mathrm{si}=\operatorname{rs}\left(\frac{3600 \times 15 \times 14}{100}\right)=\mathrm{rs} 2160
$$

40. The pattern is $23,33,43,53,63,73$.

But, 100 is not a perfect cube.

## TEST OF REASONING:

41. Father of Deepak's daughter's father -Deepak's father. So the man's brother is Deepak's father or the man is the brother of Deepak's father.

That is Deepak's Uncle. c) uncle.
42. The diagram represented for the travelling of Kunal.


Here Kunal Starting from $A$ go to $B$, to return go to $C$ starting from $B$, Again go to $D$ from $C$. Now we find the distance from AD

$$
A D=\sqrt{A C^{2}+C D^{2}}=\sqrt{4^{2}+3^{2}}=5
$$

Also, D is to the North-East of A.
43. Using the correct symbols we have

$$
12-12 \times 28 \div 7+15=12-12 \times 4+15=12-48+15=27-48=-21
$$

Ans: -21
44. In the first column, $(4 \times 7)-1=27$.

In the second column, $(5 \times 8)-2=38$.
So missing number $=(6 \times 9)-3=51$.
Ans: 51
45. Use some means to stop train immediately.
46. There are 12 triangles in the figure.
47. In the mirror represented the time 08: 30 by 03: 30 .

Therefore b is the correct Answer.
48. In the first and second statements, the common code digit is 1 and the common word is "boy". So 1 means
"boy". In the first and third statements, the common code digit is 3 and the common word is "little". So 3 means "little". Thus in the first statement, 2 means "bright". Hence the answer is (b).
49. The correct sequence is $+1,+3,+5,+7,+9 \ldots$,

So, 28 is wrong and must be replaced by 26 .
50. B is the second letter of the English alphabet and $2^{4}=16$.

Similarly, D is the fourth letter of the English alphabet and $4^{4}=256$.
D is the correct answer.

# VIVEKANANDA COLLEGE, TIRUVEDAKAM WEST-625234 GENERAL KNOWLEDGE EVERYDAY SCIENCE 

1. A spices obtained from style and stigma of a plant is
a) Saffron
b) Turmeric
c) Coriander
d) Clove
2. Stem cell factor is produced mainly by
a) Stem cells
b) Thymic Epithelium
c) Bone marrow stromal cells
d) Megakaryocytes
3. Familial cancer is caused by
a) A mutation in somatic cell only
b) a mutation in germline cells only
c) A germline mutation and a somatic mutation in affected tissue
d) Two germline mutations
4. Tsunami occurs due to
a) Mild earthquakes and landslides in the oceans
b) Strong earthquakes and landslides in the oceans
c) Strong earthquakes and landslides in mountains
d) Strong earthquakes and landslides in deserts
5. The first artificial seed prepared with $\qquad$ plant a) Santalum b) Gossypian
c) Mangifera
d) Daucus
. Which of the following disease spreads through air?
a) TB
b) Plague
c) Cholera
d) Typhoid
6. Photochemical smog is caused primarily by
a) CO
b) $\mathrm{CO}_{2}$
c) $\mathrm{O}_{3}$
d) $\mathrm{NO}_{2}$
7. The working principle of Washing machine is
a) Surface tension
b) Centrifugation
c) Centripetal force
d) Diffusion
8. Biodiesel is an example of which of the 12 principles of green chemistry
a) 1-waste prevention
b) 7-use of renewable feedstock
c) 9-Use of catalysis
d) 5-Safer solvents
9. The first Indian Satellite for serving the educational sector is known as
a) SATEDU
b) INSAT - B
c) EDUSAT
d) INSAT - C

## GENERAL STUDIES

11. Foreign Direct Investment is prohibited for certain sectors in Indian Economy. Which of the following sectors are prohibited?
12. Indian Railways 2.Defence sectors 3.Atomic energy 4.Tobacco industries 5.Nidhi company

Which of the following statement are correct? (A) 1,3 and 5 (B) 1,2 and 3 (C) 3,4 and 5 (D) 2,3 and 4
12. Consider the following statements regarding yoga:
1.Indus Valley civilisation people and the knowledge and practice of yoga
2.It is part of Six Indian Philosophies 3.MaharishiPatanjali has codified the existing practice of yoga.

Which of the above mentioned statements is are/ correct?(A)1 only (B) 1 and 2 (C) 2 and 3 (D)1, 2 and 3
13. Which of the following pairs is /are correctly matched?
1.Brihadeeswara temple-Tanjore 2.DraupadiRath-Madurai 3.Kailasa temple-Ellora4.Meenakshi temple-Mahabalipuram Code:(A) 1 and 2 (B) 1 and 3 (C) 3 and 4 (D) 1,2 and 3
14. Mixed economy means an economy where
(A) both agriculture and industry are equally promoted by the state
(B) there is co-existence of public sector along with private sector.
(C) there is importance of small scale industries along with heavy industries
(D) economy is controlled by military as well as civilian rulers.
15. Who among the following is/ are the members of the Governing Council of the NITI Aayog?

1. All Chief Ministers including Pondicherry and New Delhi 2 .Governors of States.
2. Lieutenant Governor of Andaman and Nicobar Islands.

Select the correct answer using the code given below: (A) 1 only (B) 1 and 2 (C) 2 and 3 (D) 1 and 3
16. In India, the term 'hot money' is used to refer to
(A)Currency +Reserves with the RBI (B) Net GDR (C) Net Foreign Direct Investment (D) Foreign Portfolio Investment
17. Capital deepening refers to
(A) Going for more fixed capital per worker
(B) Emphasis on social overhead capital
(C) Constant capital-output ratio
(D) Increasing capital-output ratio
18. According to Census 2011, which one of the following is the correct sequence of states in decreasing order of their total size of population?
(A)Kerala, Jharkhand, Assam, Punjab
(B)Jharkhand, Kerala, Assam, Punjab
(C) Kerala, Jharkhand, Punjab, Assam
(D)Jharkhand, Kerala, Punjab, Assam
19. AbdulKalam Island is located in (A)Tamil Nadu (B) Andhra Pradesh (C) West Bengal (D) Odisha
20. "Delta IV Heavy", the world's most powerful rocket, belongs to which of the countries?
(A)Japan
(B) China
(C) The United States of America
(D) France

CURRENT AFFAIRS
21. $\qquad$ was appointed as new chief justice of India a) Dipak Misra b) Mahadevan c) Karnan d) Hari Paranthaman
22. New - Vice Chairman of NITI Ayog is
a) Rajiv Misra
b) Rajiv Kumar
c) Sanjay Kumar
d) Sowmya Swaminathan
23.
a) Chennai was declared as Ind
c) Ahmedabad
d) Hyedrabad
24. ___ is the APP launched by central government for dissemination of earth quake
a) Earth Quake alert
b) India Quake
c) nanometer
d) thermometer
25. $\qquad$
a) Indira Gandhi
b) Nirmala sitharaman
c) Kiran bedi
d) Mamta Banarjee
26. $\overline{\text { Para Olympics. }}$
a) Ashwin Balajee
b) Sunita
c) P.V. Sindu
d) Mariappan
27. $\qquad$ is the recipient of Ar
d) Sancia
b) Saina Newal
c) P.V. Sindu
a) V.J. Sureka
d) Sania Mirza
28. Where was the $9^{\text {th }}$ BRICKS summit held? a) Argentina $\quad$ b) China $\begin{array}{lll}\text { c) Brazil } & \text { d) South Africa }\end{array}$
29. was appointed as new electional commissioner of India
a) Rajesh Lakhoni
b) Gopala Krishnan
c) Nazim Zaidi
d) Sunil Arora
30.
a) Navaneeta Krishnan
b) Vijay Narayan
c) Vijay Menon
d) Vijay Gopalan

## QUANTITATIVE APTITUDE

31. $12.1212+17.0005-9.1102=$ ?
(B.S.R.B 2003)
C) $20.0115 \quad$ d) None
a) 20.0015
b) 20.0105
32. Which of the following are in descending order of their value?
(R.R.B. 2002)
a) $5 / 9,7 / 11,8 / 15,11 / 17$ b) $5 / 9,8 / 15,11 / 17,7 / 11 \quad$ c) $11 / 17,7 / 11,8 / 15,5 / 9 \quad$ d) $11 / 17,7 / 11,5 / 9,8 / 15$
33. Find the Highest Common Factor (H.C.F) of 36 and 84. (R.R.B.2003)
a) 4
b) 6
c) 12
d) None
34. Find the Lowest Common Multiple of 24,36 , and 40. (R.R.B.2003)
a) 120
b) 240
c) 360
d)None
35. $\sqrt{53824}=$ ? (Bank P.O 2003)
a) 202
b) 232
c) 242
d) 332
36. The Value of $\sqrt{10}+\sqrt{25}+\sqrt{108}+\sqrt{154}+\sqrt{225}$ is :
(S.S.C 1998)
a) 4
b) 6
c) 8
d) 10
37. The average of the first nine prime numbers is (C.B.I. 1997)
a) 3
b) 9
c) 12
d) 15
38. The ratio 5:4 expressed as a percent equals (S.S.C.2000)
a) $12.5 \%$
b) $40 \%$
c) $80 \%$
d) $125 \%$
39. 3.5 can be expressed in terms of percentage as: (R.R. B.1998)
a) $0.35 \%$
b) $3.5 \%$
c) $35 \%$
d) $350 \%$
40. $860 \%$ of $50+50 \%$ of $860=$ ? (R.B.I.2003)
a) 430
b) 516
c) 860
d) 960

## TEST OF REASONING

41. If the positions of the first and the sixth letters in the word DISTRIBUTE are interchanged; similarly the positions of the second and the seventh, the third and the eighth and so on, which of the following letters will be the fifth from left after interchanging the positions?
(a) $E$
(b) I
(c) S
(d) T
42. $A, B, C, D$ and $E$ are five friends. $A$ is shorter than $B$ but taller than $E$. $C$ is the tallest. $D$ is shorter than $B$ and taller than $A$. Who has two persons taller and two persons shorter than him/her?
(a) A
(b) $B$
(c) C
(d) D
43. Which name will come in the last in a telephone directory?
(a) Mahender
(b) Mahendra
(c) Mahinder
(d) Mohinder
44. Statement: Should the sex determination test during pregnancy be completely banned? Arguments: I. Yes. This leads to indiscriminate female foeticide and eventually will lead to social imbalance
II. No. People have a right to know about their unborn child
(a) Only argument I is strong
(b) Only argument II is strong
(c) Either I or II is strong
(d) Both I and II is a strong
45. In the following, five words have been given out of which four are alike in some manner, while the fifth one is different. Choose out the odd one.
(a) Baboon
(b) Gibbon
(c) Chimpanzee
(d) Gorilla
(e) Jaguar
46. Sanjeev walks 10 metres towards the south. Turning to the left, he walks 20 metres and then moves to his right. After moving a distance of 20 metres, he turns to the right and walks 20 metres. Finally, he turns right and moves a distance of 10 metres. How far and in which direction is he from the starting point?
(a) 10 metres North
(b) 20 metres South
(c) 20 metres North
(d) 10 metres south
47. How many such 5 s are there in the following number sequence each of which is immediately preceded by 3 or 4 but not immediately followed by 8 or 9 ?
35954553584567357554523510
(a) None
(b) Three
(c) Four
(d) Five

| 6 | 15 | 20 |
| :---: | :---: | :---: |
| 8 | 4 | 5 |
| 3 | 5 | 20 |
| 51 | 65 | $?$ |

(a) 12
(b) 51
(c) 56
(d) 120
49. The dead have no
(a) Sensation
(b) Heartbeats
(c) Breathing
(d) Movement
50. In the word TERMINATION is coded as 12345671586 , what should be the code for the word MOTION?
(a) 438586
(b) 458586
(c) 481586
(d) 485186

## ANSWERS (GK 7)

| EVERYDAY SCIENCE: | 1.A | 2.C | 3.B | 4.B | 5.D | 6.A | 7.D | 8.B | 9. B | 10.C |
| :--- | :---: | :---: | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| GENERAL STUDIES: | 11.C | 12.D | 13.B | 14.B | 15.D | 16.D | 17.A | 18.A | 19.D | 20.C |
| CURRENT AFFAIRS: | 21.A | 22.B | 23.C | 24.B | 25.B | 26.D | 27.A | 28.B | 29.D | 30.B |
| QUANTITATIVE APTITUDE: | 31.C | 32.D | 33.C | 34. | 35.B | 36.A | 37. | 38.D | 39.D | 40.C |

31. Given expression $=(12.1212+17.0005)-9.1102=(29.1217-9.1102)=20.0115$.
32. Converting each of the given fractions into decimal form, we get :
$5 / 9=.55,7 / 11=0.63, \quad 8 / 15=0.533,11 / 17=0.647$
Clearly, $0.647>0.63>0.55>0.533$. So, $11 / 17>7 / 11>5 / 9>8 / 15$.
33. $36=2^{2} * 3^{2}: \quad 84=2^{2} * 3 * 7$
H.C.F $=2^{2} * 3=12$
34. 

| 2 | 24 | -36 | -40 |
| :--- | ---: | :--- | :--- |
| 2 | 12 | -18 | -20 |
| 2 | 6 | -9 | -10 |
| 3 | 3 | -9 | -5 |
|  | 1 | -3 | -5 |

35. 

|  | 232 |
| :---: | :---: |
| 2 | $\begin{aligned} & 53824 \\ & 4 \end{aligned}$ |
| 43 | $\begin{aligned} & 138 \\ & 129 \end{aligned}$ |
| 462 | $\begin{array}{r} 924 \\ 924 \\ \hline \end{array}$ |
|  | 0 |

36. $\sqrt{10}+\sqrt{25}+\sqrt{108}+\sqrt{154}+\sqrt{15}=\sqrt{10}+\sqrt{25}+\sqrt{108}+\sqrt{169}$
$\sqrt{10}+\sqrt{25}+\sqrt{108}+13=\sqrt{10}+\sqrt{25}+\sqrt{121}$

$$
\sqrt{10}+\sqrt{25}+\sqrt{11}=\sqrt{10}+\sqrt{36}=\sqrt{10+6}=\sqrt{16}=4
$$

37. $(2+3+5+7+11+13+17+19+23 / 9)=100 / 9=111 / 9$
38. $5: 4=5 / 4=(5 / 4 * 100) \%=125 \%$
39. $3.5=35 / 10=(35 / 10 * 100) \%=350 \%$
40. Given expression $=(860 / 100 * 50+50 / 100 * 860)=430+430=860$

## TEST OF REASONING:

41. Ans. (a)

Sol. The new letter sequence is IBUTEDISTR
The fifth letter from the left is E
42. Ans. (d)

Sol. We have: $E<A<B, A<D<B$.
Since C is the tallest, so we have $\mathrm{E}<\mathrm{A}<\mathrm{D}<\mathrm{B}<\mathrm{C}$
Clearly, D lies in the middle
43. Ans. (d)

Sol. The given names may be arranged in the alphabetical order
So, the answer is (d) Mohinder
44. Ans. (a)

Sol. Parents indulging in sex determination of their unborn child generally do so as they want to keep only a boy child and do away with a girl child. So, argument I holds. Also people have a right to know only about the health, development and general well-being of the child before its birth, and not the sex. So, argument II does not hold strong.
45. Ans. (e); Sol.

All except Jaguar are different species of Monkeys or apes, while Jaguar belongs to cat family
46. Ans (b); Sol.

The movements of Sanjeev from A to F are as shown in Figure
Clearly, Sanjeev's distance from starting point A
$=A F=(A B+B F)$
$=A B+(B E-E F)=A B+(C D-E F)$
$=[10+(20-10)]$ metres $=(10+10)$ metres $=20$ metres
Also, F lies to the South of A
So, Sanjeev is 20 metres to the South of his starting point.
47. Ans. (d); Sol.

As you know, a number which comes after a given number is said to follow it while the one which comes before the given number precedes it
Thus the number satisfying the given conditions may be marked as follows
35954553584567357554523510
48. Ans. (d); Sol.

In the first column, $6 \times 8+3=51$
In the second column, $15 \times 4+565$
In the third column, missing number $=20 \times 5+20=120$
49. Ans. (d)
50. Ans. (c); Sol.

| Letter | T | E | R | M | I | N | A | T | I | O |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Code | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 1 | 5 | 8 |

## EVERYDAY SCIENCE

1. Which animal never drinks water in its entire life?
a. Kangaroo
b. Hippopotamus
c. Rat
d. Kangaroo rat
2. Largest cell among the following is
a. Nerve cell
b. Ovum
c. The egg of ostrich
d. Muscular cell
3. Normal blood sugar level in human beings is
a. $80-120 \mathrm{mg} / 100 \mathrm{ml}$ of blood
b. $70-120 \mathrm{mg} / 100 \mathrm{ml}$ of blood
c. $90-120 \mathrm{mg} / 100 \mathrm{ml}$ of blood
d. $60-120 \mathrm{mg} / 100 \mathrm{ml}$ of blood
4. Which among the following is not a noble gas? a. Helium b. Neon
c. Xenon
d. Hydrogen
5. Rusting is $\qquad$ reaction.
a. Ionization
b. Oxidation
c. Reduction
d. Polymerization
6. What is an isotope?
a. Atoms with different mass number
b. Atoms with same mass number
c. Atoms with different atomic number
d. Atoms with same atomic number
7. The science which so called central science is
a. Physics
b. Chemistry
c. Biology
d. Geology
8. Atomic number is represented by $\qquad$ letter.
a. A
b. M
c. X
d. Z
9. Which one of the following is not an allotrope of carbon?
a. Diamond
b. Graphite
c. Fullerenes
d. Glass
10. Mole can be defined as number of atoms found in $\qquad$ of carbon 12 ?
a. 11 grams
b. 14 grams
c. 10 grams
d. 12 grams

## GENERAL STUDIES

11. Which country will become the world's largest milk producer by2026, as per latest "OECD - FAO Agricultural Outlook 2017-2026" report?
(A) Vietnam
(B) Thailand
(C) India
(D) Brazil
12. Which portal has been launched by the state bank of India (SBI) for home buyers?
(A) SBI Reality
(B) SBI Dream Home
(C) SBI Real State
(D) SBI Home
13. Which new pension scheme has been launched by the Union Government for Senior Citizen?
(A) Pradhan Mantri Vaya Vandana Yojana (PMVVY)
(B)Pradhan Mantri Vaya varun
yojana (PMVVY)
(C) Pradhan Mantri Vaya vradh yojana (PMVVY)
(D)Pradhan Mantri Vaya vaman
yojana (PMVVY)
14. Which Mobile app has launched by the Union Government for road maintenance?
(A) Road BHIM
(B) Kartavya
(C) Aarambh
(D) Prarambh
15. Gross Domestic product is calculated by
(A) RBI (B) Central Statistical Office (C) National Statistical Commission (D) Ministry of Finance
16. Which of the following gives "Global Gender Gap Index" ranking to the countries of the world?
(A) World Economic Forum
(B) UN Human Rights Council
(C) UN women
(D) World Health Organization
17. Who among the following can join the National Pension System (NPS)?
(A) Resident Indian Citizens Only
(B) Person of age from 21 to 55 only.
(C) All State Government employees joining the service after the date of notification by the respective State Governments
(D) All Central Government employees including those for armed forces joining the services on (or ) after $1^{\text {st }}$ April 2004
18. What is/are the advantage/advantages of implementing the "National Agricultural Market" scheme? I. It is a pan India electronic trading portal for agricultural commodities. II. It provides the farmer with access to nationwide market, with prices commensurate with the quality of the produce. Select the correct answer using the code given below:
(A) 1 only
(B) 2 only
(C) Both 1 \& 2
(D) Neither 1 or 2
19. Which of the following is a most likely consequence of implementing the "Unified Payments Interface (UPI)"?
(A) Mobile wallets will not be necessary for online payments
(B) Digital currency in about two decades
(C) FDI inflows will drastically increase (D) Direct transfer of subsidies to poor people will become very effective
20. What is / are the most likely advantages of implementing "Goods and Service Tax (GST)"? 1. It will replace multiple taxes collected by multiple authorities and will thus create a single market in India.
21. It will drastically reduce the "Current Account Deficit" of India and will enable it to increase its foreign exchange reserves.
22. It will enormously increase the growth and size of economy of India and will enable it to overtake China in the near future.
Select the correct answer using the code given below:
(A) 1 only
(B) 2 \& 3 only
(C) $1 \& 3$ only
(D) $1,2, \& 3$

## CURRENT AFFAIRS

21. The traditional Bonderam festival has started in which state?
[A] Goa
[B] Karnataka
[C] Kerala
[D] Mizoram
22. The Punjab National Bank (PNB) has signed an agreement with which telecom company to roll out open mobile wallet Speed pay? [A] Vodafone India [B] BSNL [C] Reliance Jio [D] Idea Cellular
23. Konjum Taba, who has clinched gold at the 2017 Commonwealth Weightlifting Championships, is associated with which weight category? [A] $82 \mathrm{~kg} \quad[\mathrm{~B}] 65 \mathrm{~kg} \quad[\mathrm{C}] 57 \mathrm{~kg} \quad[\mathrm{D}] 94 \mathrm{~kg}$
24. Which union minister has launched North East Festival 'North-East Calling' in New Delhi?
[A] Smriti Irani
[B] Ravi Shankar Prasad
[C] Uma Bharati
[D] Jitendra Singh
25. Who has been appointed as new chief coach of the Indian Senior Men Hockey Team?
[A] Waltherus Marijne
[B] Stephen Constantine
[C] Johanna Maria Jacob
[D] Phil Baty
26. Who has been appointed as new interim Chairman of Goods and Services Tax Network (GSTN)?
[A] Manisha Singh
[B] Ajay Bhushan Pandey
[C] Inder Jit Singh
[D] Hasmukh Adhia
27. Which Indian university has been named the top university in India, according to 2018 Times Higher Education (THE) World University Rankings?
[A] IIT-Kharagpur
[B] IIT-Kanpur
[C] IISc-Bangalore
[D] IIT-Bombay
28. Which country to host 2018 Junior Asian Wrestling Championship (JAWC)?
[A] South Africa
[B] China
[C] Russia
[D] India
29. Rattihalli Nagendra Sudarshan, who passed away recently, was the noted personality of which field?
[A] Politics
[B] Film Industry
[C] Law
[D] Science
30. The Bhindawas Wildlife Sanctuary (BWS) is located in which state?
[A] Punjab
[B] Haryana
[C] Himachal Pradesh
[D] Uttar Pradesh

## QUANTITATIVE APTITUDE

Questions 31 to 35 are based on the following information: (SBI PO2007)
Children in class play only one or two or all of the three games - badminton, football and cricket. 5 children play only cricket, 8 children play only football and 7 children play only badminton, 3 children play only two games - badminton and football, 4 children play only two games - cricket and football and another 4 children play only two games - badminton and cricket. 2 children play all the three games.
31. How many children play football as well as cricket?
a) 4
b) 6
c) 7
d) 15
32. In all, how many children play badminton?
a) 12
b) 13
c) 14
d) 16
33. In all, how many children play football?
34. How children play badminton as well as cricket?
a) 8
a) 4
b) 14
b) 6
c) 15
d) 17
35. Total how many children are there in the class?
c) 9
d) 10
36. Which one of the following is the correct sequence in respect of the Roman numerals: $C, D, L$, and $M$ ?
a) $C>D>L>M$
b) $M>L>D>C$
c) $M>D>C>L$
d) $L>C>D>M$
(Civil Services 2008)
37. If the sum of two numbers is 14 and their difference is 10 . Find the product of these two numbers.
a) 18
b) 20
c) 24
d) 22
(UPSSSC -2016)
38. When Seeta made necklaces of either 16 beads, 20 beads or 36 beads, not a single bead was left over. What could be the least number of beads Seeta had? (BSRB -2008)
a) 700
b) 720
c) 750
d) 780
39. The product of 0.09 and 0.007 is $\qquad$ (LIC ADO 2008)
a) 0.6300
b) 0.00063
c) 0.00630
d) 0.000063
40. Sweets were distributed equally among 64 children. After giving 7 sweets to each child 15 sweets were left out. Total how many sweets were there? (Band PO 2009)
a) 436
b) 446
c) 448
d) 463

## TEST OF REASONING

41. Crime: Court : : Disease : ?
A. Doctor
B. Medicine
C. Hospital
D. Treatment
42. The following numbers fall in a group. Which one does not belong to the group? 53, 63, 83, 73
A. 53
B. 63
C. 83
D. 73
43. Which one is the same as Mumbai, Kolkata and Cochin?
A. Delhi
B. Kanpur
C. Chennai
D. Sholapur
44. 7: 56: : 5: ?
A. 25
B. 26
C. 30
D. 35
45. Find the smallest number which when divided by 25,40 or 56 has in each case 13 as remainder.
A. 1413
B. 1400
C. 1439
D. 1426
46. There are five books $A, B, C, D$ and $E$ placed on a table. If $A$ is placed below $E, C$ is placed above $D, B$ is placed below $A$ and $D$ is placed above $E$, then which of the following books touches the surface of the table?
A. C
B. $B$
C. A
D. $E$
47. Find the odd one out:
A. Owl
B. Eagle
C. Hawk
D. Parrot
48. OTE, PUF, QVG, RWH, ?
A. SYJ
B. TCI
C. SXJ
D. SXI
49. $\mathrm{B}-1, \mathrm{D}-2, \mathrm{~F}-4, \mathrm{H}-8, \mathrm{~J}-16$, __ ?
A. K-64
B. L-32
C. M-32
D. L-64
50. Arrange the colours of the rainbow (in the reverse order) (from the top edge):
51. Blue; 2. Indigo;
52. Yellow;
53. Green;
54. Violet
$\begin{array}{llll}\text { A. } 3,4,1,2,5 & \text { B. } 4,3,1,5,2 & \text { C. } 5,3,4,2,1 & \text { D. } 2,4,3,1,5\end{array}$

## ANSWERS (GK 8)

| EVERYDAY SCIENCE: | 1.D | 2.C | 3.A | 4.D | 5.B | 6.A | 7.B | 8.D | 9.D | 10.D |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| GENERAL STUDIES: | 11.C | 12.A | 13.A | 14.C | 15.B | 16.A | 17.C | 18.C | 19.A | 20.A |
| CURRENT AFFAIRS: | 21.A | 22.B | 23.D | 24.D | 25.A | 26.B | 27.C | 28.D | 29.B | 30.B |
| QUANTITATIVE APTITUDE: | 31.B | 32.D | 33.D | 34.B | 35.B | 36.C | 37.C | 38.B | 39.B | 40.D |

Let the circles $B, F$ and $C$ represent the children who play badminton, football and cricket respectively. Then $c=5, b=8, a=7, d=3, f=4, e=4, g=2$

31. Required number $=f+g=4+2=6$.
32. Required number $=a+d+e+g=7+3+4+2=16$.
33. Required number $=b+d+f+g=8+3+4+2=17$.
34. Required number $=e+g=4+2=6$.
35. Required number $=a+b+c+d+e+f+g=7+8+5+3+4+4+2=33$.
36. We have, $M=1000 ; D=500 ; C=100 ; L=50 ; S o, c)$ is the correct sequence.
37. Let the two numbers be $a$ and $b$. $a+b=14$ and $a-b=10$. By simplifying, we get $2 a=24: a=12$ and $b=2$.

Therefore, product of two numbers= $12 * 2=24$.
38. Required number of beads $=$ L.C.M of $16,20,36=720$.
39. $9 * 7=63$; Sum of decimal places is 5 ; So, $0.09 * 0.007=0.00063$
40. Total number of sweets $=(64 * 7+15)=448+15=463$

## TEST OF REASONING:

## Answer \& Explanation

41. Ans: C. "Court" is the place where the judge gives his decision on crime. Similarly, Hospital is the place where the doctor diagnoses the disease of the patient.
42. Ans: B. Here only 63 is not belonging to group because it is divisible by 3 .
43. Ans: C. Mumbai, Kolkata and Cochin all are coastal city. Similarly, Chennai is also a coastal city.
44. Ans: C.

45. Ans: A. LC M of $25,40,56$
$=2 \times 5 \times 2 \times 2 \times 5 \times 7=1400$. Smallest Number $=1400+13=1413$.
46. Ans: B
47. Ans: D All except parrot are birds of prey.
48. Ans: D The first, second and third letters are in alphabetical order.
49. Ans: B
50. Ans: A


Colour of Rainbow $=$ V I B GYOR; Reverse order -R O Y G B I V; According to option $\rightarrow \rightarrow 3,4,1,2,5$

# VIVEKANANDA COLLEGE, TIRUVEDAKAM WEST-625234 GENERAL KNOWLEDGE EVERYDAY SCIENCE 

. Copper can be converted into gold by:
(a) Artificial radioactivity
(b) heating
(c) Electroplating
(d) Chemical reaction
2. The three elements needed for healthy growth of plants are:
(a) N, P, K
(b) N, C, P
(c) N, K,
(d) N, S, P
3. Addison's disease is caused by the excessive secretion of:
(a) Antidiuretic Hormone
(b) Luteinising Hormone
(c) Melanophore stimulating Hormone
(d) Adrenocorticotrophic Hormone
4. A light year is a unit of:
(a) Time
(b) Energy
(c) Length
(d) Mass
5. Which of the following layers make radio transmission possible?
(a) Troposphere
(b) Ionosphere
(c) Mesosphere
(d) Stratosphere
6. Yeast is used in making bread because it produces:
(a) Carbon dioxide
(b) Sugar
(c) Bacteria
(d) Oxygen
7. Quartz crystal in quartz watches work on the principle called:
(a) Photoelectric effect
(b) Stark effect
(c) Thermionic effect
(d) Piezo-electric effect
8. The fruits without seed, like banana, are called:
(a) seedless fruits
(b) parthenogenesis fruits
(c) parthenocarpic fruits
(d) placental fruits
9. Animal which captures and readily kills living animals for its food is called:
(a) Parasite
(b) Scavenger
(c) Predator
(d) None of these
10. Kilowatt-hour is a unit of:
(a) Power
(b) Electric Current
(c) Energy
(d) Time

## GENERAL STUDIES

11. What is the purpose of setting up of Small Finance Banks (SFBs) in India?
$\begin{array}{ll}\text { 1. To supply credit to small business units } & \text { 2. To supply credit to small and marginal farmers }\end{array}$
12. To encourage young entrepreneurs to set up business particularly in rural areas

Select the correct answer using the code given below:
a) 1 and 2 only
b) 2 and 3 only
c) 1 and 3 only
d) 1.2 and 3
12. Who among the following introduced the celebration of Ganesh Chaturthi and Shivaji Festivals to bring the Indian society together and inspire patriotic feelings among the people?
a) BalGangadharTilak
b) Gopal Krishna Gokhale c) JoyotiraoGovindraoPhule
d) Mahadev Govind Ranade
13. Medium or long term loans to commercial banks from RBI are:

1. Repo rate
2. Bank rate
3. Reverse repo rate
a) 1 and 2 only
b) 2 only
c) 1 only
d) 3 only
4. Consider the following statements regarding BharatiyaMahila Bank (BMB):
5. It is the only public bank in the country fully owned by the government
6. It works exclusively for women.

Which of the statements given above is / are correct? a) 1 only b) 2 only
c) Both 1 and 2 d) Neither 1 nor
15. Consider the following list of statements:
1.The 'Nightingale of Inida (MS Subbulakshmi) was borne here.
2.Gandhiji's decision to adopt, and his first public appearance in the attire of a dhoti and shawl was here.
3.Some of the earliest works in Tamil were supported to have been composed and compiled in assemblies that were held in this city.
4.Kannagi, in the famous Tamil epic Silappadikaram, destroys this entire city.

The above statements refer to which city from among the following?
a)Kanchipuram
b) Kaveripattinam
c) Madurai
d) Karur
16. Which of the following pairs is/are correctly matched?
1.Brihadeeswara Temple - Tanjore
2.DraupadiRath - Madurai
3. Kailasa temple - Ellora
4. Meenakshi temple - Mahabalipuram
a) 1 and 2
b) 1 and 3
c) 3 and 4
d) 1, 2 and 3
17. What is BHIM
a) It is a medium range sub-sonic missile
b) It is a software developed for NISAR
c) It is an mobile app developed for bill payments
d) None of the above
18. Debenture holders of a company are its a) Creditors b) Debtors c) Managers d) Shareholders
19. What is the difference between abound and a debenture? While a debenture is always unsecured, a bond is always secured. On liquidation of the company, the debenture holders are paid prior to bond holder. Which of the above mentioned statements is/are correct?
a) 1 only b) 2 only
c) Both 1 and 2
d) neither 1 nor 2
20. SMART is new initiative launched as search and rescue operation by
a) Ministry of Home Affairs
b) Ministry of External Affairs
c) Ministry of Science \& Technology and Earth Science
d) Prime Minister Office

## CURRENT AFFAIRS

21. Who has won the Korean super series badminton in 2017?
a. Carolina Marin
b. P.V.Sindhu
c. Saina Neival
d. Ranjani
22. On_Cassini Satellite has stopped its service.
a. $15^{\text {th }}$ Sep $2017 \quad$ b. 21th Sept $2017 \quad$ c. $15^{\text {th }}$ Aug $2017 \quad$ d. $20^{\text {th }}$ May 2017
23. M.S.Dhoni has achieved $100^{\text {th }}$ fifties against
a. Australia
b. Srilanka
c. England
d. West Indies
24. Who is the Defense Minister of India?
a. Pon.Radhakrishnan b. Nirmala Seetharaman c. Arun Jetley d. Sushma Swaraj
25. Which state has become the first Indian state to approve e-vehicle policy?
a. Kerala
b. Andhra Pradesh
c. Karnataka
d. Odhisha
26. The President of India has launched a nationwide campaign "Swacchata Hi Seva"in the city of $\qquad$
a. Kanpur
b. New Delhi
c. Gandhivergar
d. Guwahathi
27. Which operation has started by India to help Roghingya refugee in Bangladesh?
a. Operation Rohingya
b. Operation Mahatma
c. Operation Insaniyat
d. Operation Refugee
28. Who has been declared as the new president of Singapore?
a. Halimah Yacob
b. Farid Khan Kaim Kham
c. Mohamed Salleh Merican
d. Shirwin Eu
29. What is the motto of 2017 World Suicide Prevention Day (WSPD)?
a. Understanding new hope
b. connect, communicate, care
c. light a candle near a window
d. take a minute, change a life
30. Which country's team has won the 2017 under sixteen (U16) South Asian Basketball (SABA) championships?
a. Nepal
b. India
c. Bhutan
d. Bangladesh
TEST OF REASONING
31. $11,12,16,25$,?
a)45 b) 41
c) 43
d) 49
32. From the given alternative words, select the word which cannot be formed using the letters of the given
word: KILOMETERS
a) Oil
b) Meet
c) Trees
d) street
33. If in a certain code "Education "is written as 365798214 then how "conduct" can be written?
a)7146578
b) 6547871
c)1458776
d) 6485767
34. If $44+12=30, \quad 77+14=61, \quad 84+16=66$ then what should be for $44+12=$ ?
a) 28
b) 20
c) 32
d) 24
35. In a family of six person $A, B, C, D, E$ and $F$ they are two married couples
$D$ is grandmother of $a$ and mother of $B, \quad C$ is wife of $b$ and mother of $F, \quad F$ is granddaughter of $E$ ? Question: How is A related to F?
a) Grandfather
b) Sister (Or) Brother
c) Daughter-in-law
d) Son
d) 75
36. 2, 3, 7, 16, 32,?
a) $405 \quad$ a) 57
b) 59
c) 56
37. 3:243:: 5:?
a) 405
b) 465
c) 495
d) 546

5:36::6:?
a) 48
b) 50
c) 43
d) 56
49.

a)15
b) 30
c) 48
d) 26
50.

a)49
b) 54
c) 39
d) 36

EVERYDAY SCIENCE: 1.A 2.A $3 . \mathrm{D} \quad$ 4.C $\quad$ 5.B $\quad$ 6.A $\quad$ 7.D $\quad$ 8.B $\quad$ 9.C $\quad$ 10.C

$\begin{array}{lllllllllll}\text { CURRENT AFFAIRS: } & 21 . B & 22 . \mathrm{A} & 23 . \mathrm{A} & 24 . \mathrm{B} & 25 . \mathrm{C} & 26 . \mathrm{A} & 27 . \mathrm{C} & \text { 28.A } & \text { 29.D } & 30 . \mathrm{B}\end{array}$
QUANTITATIVE APTITUDE: 31.32 .33 .34 .35 .36 .37 .38 .30 .30.
$\begin{array}{lllllllllll}\text { TEST OF REASONING: } & 41 . \mathrm{B} & \text { 42.D } & 43 . \mathrm{A} & 44 . \mathrm{B} & 45 . \mathrm{B} & 46 . \mathrm{A} & 47 . \mathrm{A} & \text { 48.C } & \text { 49.D } & 50 . \mathrm{C}\end{array}$
41. b) $41 \quad 1^{2}, 2^{2}, 3^{2}, 4^{2}$
2. d) $11,12,16,25$
42. d)Street
43. a) 7146578

| C | O | N | D | $U$ | $C$ | $T$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 7 | 1 | 4 | 6 | 5 | 7 | 8 |

44. b) 20
$44-12=32-2=30$
$44-22=22-2=20$
45. b) Sister (Or)brother
46. a)

47. a) 405 Sol: $81 * 5=405$
48. c) $5: 36:: 6: ?$

Sol: $5 * 7=35+1=36$
$6 * 7=42+1=43$
49. d) $1^{2}+5^{2}=1+25=26$
50. c) 39 Sol: $20 * 1=39$

## EVERYDAY SCIENCE

1. When we eat something we like, our mouth waters. This is actually not water but fluid secreted from
a) Nasal glands
b) Oral Epithelium
c) Salivary glands
d) Tongue
2. Which one of the following is not a part of small intestine?
a) Caecum
b) Duodenum
c) Jejunum
d) Ileum
3. Which one among the following gland is an endocrine gland?
a) Adrenal
b) Liver
c) Pancreas
d) Salivary gland
4. During the process of respiration in human beings, the exchange of gases takes place in
a) Bronchi
b) Alveoli
c) Bronchiole
d) Pleura
5. Pituitary gland is situated in
a) The base of the heart
b) The base of the brain
c) The neck
d)The abdomen
6. In man the normal number of chromosomes is $\qquad$
a) 46
b) 47
c) 48
d) 49
7. The acid which is secreted by the glands in the stomach wall is $\qquad$
a) sulphuric acid
b) hydrochloric acid
c) nitric acid
d) phosphoric acid
8. The number of bones in the human body system is $\qquad$
d) 370
9. Which of the following is known as the voice box?
a) Trachea
b) pharynx
c) epiglottis
d) Iaryn $x$
10. In which part of the human body do we find the islet of langerhans?
a) Brain
b) pancreas
c) kidney
d) liver

## GENERAL STUDIES

11. Which GST committee on exports has been constituted by the Union Finance Ministry?
a) Rita Teaotia committee b) Etele Rajender committee c) Hasmukh Adhia committee d) Sushil Modi committee
12. Which state Government has launched shaheed Gram Vikas Yojana to provide houses to freedom fighters?
a) Maharashtra
b) Uttar Pradesh
c) Rajasthan
d) Jharkhand
13. Which of the following has become the india's first payments bank to integrate the UPI on its digital platform?
a) FINO payments bank
b) Airtel payments bank
c) Paytm payments bank
d) India post payments bank
14. What is the theme of 2017 International Day of Peace?
a) Together for peace: Respect,Safety, and Dignity for All
b) Together for peace
c) Together for peace : Dignity for all
d) Together initiate world peace
15. Which Bollywood personality has been appointed as the brand ambassador of Uttarkhand Swachh Bharat Mission (SBM)? a) Amitabh Bachchan b) Priyanka Chopra c) Deepika padukone d) Akshay Kumar
16. Which state government has launched a mobile app 'People First' for citizens?
a) Odisha
b) Assam
c) Andhra Pradesh
d) Uttar Pradesh
17. Which Union Minister has launched Sahaj Bijli Har Ghar Yojana "SAUBHAGYA" to supply electricity to poor households? a) J P Nadda b) Rajnath Singh c) Arun Jaitely d) Narendra Modi
18. Which country hosted the 7th ASEM Economic Ministers Meeting (ASEM EMM7)?
a) Japan
b) South Korea
c) China
d) Netherlands
19. What is the theme of 2017 World Rabies Day (WRD) ?
a) Rabies: $100 \%$ Vaccine preventable
b) Rabies- Educate,Vaccinate, Eliminate
c) End Rabies Together
d) Rabies: Zero by 30
20. Which state to host the 3rd India International Science Festival (IISF)-2017?
a) Kerala
b) Odisha
c) Tamil Nadu
d) Madhya Pradesh

## CURRENT AFFAIRS

21. Who is recommended for Padmapushan Award recently?
a) Saina Nehwal
b) P. V. Sindhu
c) Carolina Marin
d) Sakshi Malik
22. C. N. R. Rao was selected for which award?
a) Oscar Award
b) Livelihood Award
c) UNESCO Peace Award
d) Von Hippel Award
23. Who won in the Chancellor's election of Germany for fourth time?
a) Angela Merkel
b) Martin Schulz
c) Lothar de Maiziere
d) Sigmar Gabriel
24. When did Narendra Modi, the Prime Minister of India launch power for all schemes?
a) 23.09 .2017
b) 24.09.2017
c) 25.09.2017
d) 26.09.2017
25. Whom were nominated for 2017 FIFA Best Men's Player Award?
a) Ronaldo, Messi and Neymer
b) Wayne Rooney, Mwsut Ozil, Alex Ferguson
c) Paul Pogba, Ronaldinho, Zlatan Ibrahimovic d) Sunil Chhetri, Bharchung Bhutia, Jeje Lalpekhlua
26. Which state cabinet approves Religious Freedom Bill 2017 on $1^{\text {st }}$ August?
a) Tamil Nadu
b) Punjab
c) Bihar
d) Jharkhand
27. Who is appointed as new BSE chairman?
a) Dhirendra Swarup
b) Rajesh Shah
c) Sanjaya Banu
d) Mohini Pathark
28. Who is recommended for Khel Rathna Award 2017?
a) Devendra Jhajharia
b) Sardar Singh
d) only A
d) Both A and B
29. Who took oath as new comptroller and Auditor General (CAG) of India?
a) Shri Naresh Iyer
b) Shri Rajesh Sharma
c) Shri Vijay Shastri
d) Shri Rajiv Mehrishi
30. Which airways launches "Fly Now Pay Later" scheme recently?
a) Singapore Airlines
b) Kenya Airways
c) Etihad Airways
d) Emirates

## QUANTITATIVE APTITUDE

31. The monthly incomes of five persons are Rs. $1132, R s .1140, R s .1144, R s .1136, R s .1148$ respectively. What is their arithmetic mean?
a) 1100
b) 1120
c)1132
d) 1140
32. If the arithmetic mean of $0,5,4,3$ is $A$, that of $-1,0,1,5,4,3$ is $B$ and that of $5,4,3$ is $C$, then the relation between $A, B$ and $C$ is $\quad$ a) $a=b=c \quad b) a: b: c=3: 2: 4 \quad$ c) $4 a=5 b=c \quad$ d) $a+b+c=12$
33. The average of $2,7,6$ and $x$ is 5 and the average of $18,1,6, x$ and $y$ is 10 . What is the value of $y$ ?
a) 5
b) 10
c) 20
d) 30
34. In a family, the average age of a father and a mother is 35 years. The average age of the father, mother and their only son is 27 years. What is the age of son?
a) 10 years
b) 10.5 years
c) 11 years
d) 12 years
35. If the mean of 5 observations $x, x+2, x+4, x+6$ and $x+8$ is 11 , then the mean of the last three
observations is
a) 11
b) 13
c) 15
d) 17
36. The mean of $1^{2}, 2^{2}, 3^{2}, 4^{2}, 5^{2}, 6^{2}, 7^{2}$ is $\begin{array}{llll}\text { a) } 10 & \text { b) } 20 & \text { c) } 30\end{array}$
d) 40
37. Out of three numbers, the first is twice the second and is half of the third. If the average of the three numbers is 56 . Then difference of first and third number is
a) 12
b) 20
c) 24
d) 48
38. The average of 6 numbers is 7 . The average of three numbers of them is 5 . What will be the average of remaining numbers? $\begin{array}{lllll}\text { a) } 15 & \text { b) } 30 & \text { c) } 9 & \text { d) } 42\end{array}$
39. Average of $a, b$, and $c$ is 11 , average of $c, d$, and $e$ is 17 , average of $e$ and $f$ is 22 ,average of $e$ and $c$ is 17.Find out the average of a, b, c, d, e and f a) 47/3 $\begin{array}{lllll}\text { b) } 37 / 2 & \text { c) } 3 & \text { d) none of these }\end{array}$
40. The average of $X 1, X 2$ and $X 3$ is 14 . Twice the sum of $X 2$ and $X 3$ is 30 . what is the value of $X 1$ ?
a) 12
b) 16
c) 20
d) 27

## TEST OF REASONING

41. How many numbers from 1 to 40 will be left out if all those numbers each of which is exactly divisible by 4 and /or has 4 as one of the digits are dropped?
A. 27
B. 28
C. 29
D. 30
42. Find the missing number

| 5 |
| :--- |
| 16 |
| 49 |


| 9 |
| :--- |
| 29 |
| 89 |


| 15 |
| :---: |
| $?$ |
| 147 |

A. 45
B. 48
C. 51
D. 54
43. Find the missing letter

$$
\begin{array}{cccc}
A & B & C & D \\
F & I & L & O \\
K & P & U & Z \\
P & W & D & ? \\
& & & B
\end{array}
$$

A. P
C. J
D. $L$
44. Find ' $X$ ' in the triangle:

A. 16
B. 96
C. 50
D. 80
45. In a row of 25 children, Simbu, when shifted by four places towards his right becomes tenth from the right end. What was his original position from the left end ?
A. 8
B. 9
C. 10
D. none of the above
46. Charlie is five ranks below top student Chandu in a class of forty students. What is Charlie 's rank from the bottom in the class.
A. 33
B. 34
C. 35
D. 36
47. Find out the missing number

$$
\begin{aligned}
& 6 * 5=91 \\
& 8 * 7=169 \\
& 10 * 7=657
\end{aligned}
$$

Then 11* $10=$ ?
A. 331
B. 993
C. 678
D. 845
48. Find the odd one out A. Whale B. crocodile
C. tortoise
D. frog
49. Find the number that must come inside the bracket (?)

| 173 | (24) | 526 |
| :--- | :--- | :--- |
| 431 | $(18)$ | 325 |
| 253 | (?) | 471 |

A. 22
B. 42
C. 30
D. 06
50. In a row of boys, Sriram is $7^{\text {th }}$ from the left and mani is $12^{\text {th }}$ from right. If they interchange their positions Sriram becomes $22^{\text {nd }}$ from the left . how many boys are there in the row ?
A. 19
B. 31
C. 33
D. 34

## ANSWERS (GK 10)

| EVERYDAY SCIENCE: | 1.C | 2.A | 3.A | 4.B | 5.B | 6.A | 7.B | 8.B | 9.D | 10.B |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| GENERAL STUDIES: | 11.C | 12.D | 13.B | 14.A | 15.D | 16.C | 17.D | 18.B | 19.D | 20.C |
| CURRENT AFFAIRS: | 21.B | 22.D | 23.A | 24.C | 25.A | 26.D | 27.A | 28.D | 29.D | 30.C |
| QUANTITATIVE APTITUDE: | 31.D | 32.B | 33.C | 34.C | 35.B | 36.B | 37.B | 38.C | 39.A | 40.D |

31. Arithimetic mean $=(1132+1140+1144+1136+1148 / 5)=5700 / 5=1140$
32. $a=(0+5+4+3) / 4=3$
$b=(-1+0+1+5+4+3) / 6=2$
$c=(5+4+3) / 3=4, \quad a: b: c=3: 2: 4$
33. $(2+7+6+x) / 4=5$
$15+x=20$
X=5
$(18+1+6+x+y) / 5=10$
$25+5+y=50$
$Y=50-30=20$
34. Sum of ages of father and mother $=(35 \times 2)=70$ years

Sum of ages of father, mother and son $=(27 \times 3)=81$ years
Son's Age $=81-70=11$ years
35. $(X+(X+2)+(X+4)+(X+6)+(X+8)) / 5=11$
$5 X+20=55, \quad X=7$
The numbers are $7,9,11,13,15 \quad$ Required mean $=(11+13+15) / 3=39 / 3=13$
36. $n=7$,

Sum of square of $n$ natural numbers $=n(n+1)(2 n+1) / 6$
$(7 \times 8 \times 15) / 6=140$
$140 / 7=20$
37. Let the second number be $x$. then, first number $=2 x$, third number $=4 x$
$2 x+x+4 x=56 x 3$
$7 x=168$
$X=24$
Required difference $=4 x-2 x=2 x$
$2 x=48$
38. Average of 6 numbers $=7$

Sum of 6 numbers $=42$
Average of 3 numbers=5
Sum of 3 numbers $=15$
Sum of remaining three numbers $=42-15=27$
Average $=27 / 3=9$
39. Average of $a, b, c=11$ therefore $11 \times 3=33$

Average of $c, d$ and $e=17$ so, $17 \times 3=51$
Average of e \& $f=22$ so, $22 \times 2=44$
Average of e \&c =17 so,17x2=34
$a+b+c+c+d+e+e+f-e-c=33+51+44-34=128-34=94$
Therefore $a+b+c+d+e=94, \quad$ Average $=94 / 6$
40. $X 1+X 2+X 3=14 X 3=42$
$2(X 2+X 3)=30$
$X 2+X 3=15$
$X 1=42-15=27$
$\begin{array}{lllllllllll}\text { TEST OF REASONING: } & \text { 41.B } & 42 . \mathrm{B} & 43 . \mathrm{B} & \text { 44.D } & \text { 45.D } & 46 . \mathrm{C} & 47 . \mathrm{A} & 48 . \mathrm{A} & \text { 49.A } & \text { 50.C }\end{array}$
41. B) Dropped numbers are: $4,8,12,14,16,20,24,28,32,34,36,40$.
42. B) First column $\times 3+1$, Second column $\times 3+2$, Third column $X 3+3$
43. B) +1 each : $A \rightarrow B \rightarrow C \rightarrow D$
+3 each : $\mathrm{F} \rightarrow \mathrm{I} \rightarrow \mathrm{L} \rightarrow \mathrm{O}$
+5 each : $K \rightarrow P \rightarrow U \rightarrow Z$
+7 each : $\mathrm{P} \rightarrow \mathrm{W} \rightarrow \mathrm{D} \rightarrow \mathrm{K}$
44. D) $90=7 \times 3 \times 5-(7+3+5)$
$13=1 \times 6 \times 4-(1+6+4)$
$80=2 \times 6 \times 8-(2+6+8)$
45. D) $12^{\text {th }}$
46. C)
47. A) $6^{3}-5^{3}=91, \quad 8^{3}-7^{3}=169, \quad 10^{3}-7^{3}=657 \quad 11^{3}-10^{3}=331$
48. A) Except Whale, all three creatures can live in water as well as land.
49. A) Sum of digits of number outside the brackets is equal to the number inside the bracket.
50. C)

