VIVEKANANDA COLLEGE, TIRUVEDAKAM WEST-625234 GENERAL KNOWLEDGE



1

EVERYDAY SCIENCE

| | EVERYDAY SCIEF | NCE | |
|---|---|---|----------------------------------|
| 1. An eye defect which usually result from a | n unequal curvature of th | ne cornea is | |
| (a) Nearsightedness (b) astigmatis | n (c) color blindness (d) | night blindness | |
| 2. The element of an electric stove is made | e of | | |
| (a) Copper (b)aluminium | (c) magnalium (d) ni | crome | |
| 3. Of the following foods, which one is the | e best source of protein | (1) | |
| (a) Butter (b) fish 4 The most abundant element in the earth | (c) lettuce | (d) milk | |
| (a) Carbon dioxide (b) hydrogen | (c) oxygen | (d)nitrogen | |
| 5. Which of the following chemicals is use | eful in photography? | (u)muogen | |
| (a) Aluminium hydroxide (b) potassi | um nitrate (c) silver bro | mide (d) sodium chloride | |
| 6. The purest form of water can be obtained | d from | | |
| (a) A deep tube well (b) a running stre | am (c) a hot water spring | g (d) a heavy shower of rain | |
| 7. Which of the following vitamins is store | ed in the liver? | | |
| (a) Vitamin A (b) Vitamin C | (c) Vitamin E | (d) Vitamin K | |
| 8. Pressure cooker cooks rice faster becaus | se | | |
| (a) It always lets the steam escape (b) | high pressure crushes the | he hard covering of rice gain | (c) it does not let the |
| neat energy escape easily (d) hig | n pressure raises the boil | ing point of water | |
| 9. All element found in all organic compo | (c) nitrogen | (d) carbon | |
| 10 Penicillin is widely used as | (c) muogen | (d) carbon | |
| (a) An antiseptic (b) a disinfectant | (c) an antibiotic | (d) an insecticide | |
| | (•) •••••••••••• | (0) | |
| Gener | ral Studies | | |
| 11. Consider the following sentences regard (a) The India post payment bank has r(b) This would be the first PSU under(c) It is poised to create a national pay | ling India Post Payment eceived the certificate of the Department of Posts ments architecture riding | Bank : incorporation under the comp g on a modern payments platfo | anies Act 2013. rm. |
| Which of the above sentences is/are tr | ue? | | |
| (a) a and b (b) b and c (c) a a 12. Consider the following statement regard (a) SBM is being implemented by Min Development in rural areas. (b) To create an enabling environment (operation and maintenance) is one (c) Nagaland became the firstand India Which of the statement is/are correct | and c (d) a,b and c ling Swatch Bharat Miss histry of Urban Develops for private sector partic of the objectives of SBJ a's only open-defecation ect? | ion: nent in urban areas and Minist ipation in Capex (Capital exper M. Free State recently. | ry of Rural nditure) and Opex |
| (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 oth | er nationalised banks. | | |
| b) Board of control for cricket in In | dia (BCCI) as it is financ | cially and administratively dom | ninated by the |
| Government. | the territory of India | | |
| Choose the correct statement | the territory of mula. | | |
| (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 pri- | ce stability, while keeping in m | nind the objectives of |
| growth. | | | - |
| (b) Failure to meet the inflation target | will require the RBI to s | end a report to the president sta | arting reasons for |
| failure and proposed remedial action | ons. | | |
| Which of the statement is/are corre | ect? | | |
| (a) Only a (b) only b | (c) Both a and b | (d) Neither a nor b | |
| (a) It is released by international Mon | Global Competitive Inde | ex. | |
| (a) It is released by international Work (b) India's rank has improved 16 place | es for the second year in | a row after moderate rise in the | e vear 2014-15. |
| (c) This year, the report highlight that | declining openness is th | reatening growth and prosperit | y 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 Organisati | on (WTO): | |
| (a) The Worlds Trade Organisation (W | VTO) is the only global i | nternational organization deali | ng with the rules of |
| trade between nations. | a posto on durais - 1'i- | tondondo ofla | |
| (b) The policies of wild can cut living | g costs and raise living s | tanuarus of people. | velonment and |
| environmental protection | s, opumai use of the wol | ine o resources, sustaillable dev | cropment and |
| Which of the above statement is/ar | e 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:
 - (c) b, c and d (d) a, c and d (a) A, b and c (b) a, b 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 ______ 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 (d) Bill Clinton (c) Nelson Mandela

28. Indian Space Research Organisation in February 2017 created world record by deploying 104 satellites in space through its space vehicle

(b) PSLV-C37 (a) PSLV-C25 (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: b) 1 c) 2 d) None of these a) 0
- 33. If $\sqrt{2^n} = 64$ then the value of n is d)12 c)6 a) 2 b)4 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 $(2.697-0.498)^2 + (2.697+0.498)^2$ is 2.697x2.697+0.498x0.498 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 c)4 d)8 b)6
- 37. Which number replaces the question mark?

a) 5



| 38. | If $5 \oplus 3 = 34$ and | and $6 \oplus 2 = 40$ then | i, the value | e of 7 \oplus 1 is | | |
|-----|--------------------------|----------------------------|---------------------|----------------------|-----------------------|-----------------------|
| | a) 54 | b) 34 | c)50 | d) 30 | | |
| 39. | Find out the wr | ong number in th | e series 28 | 80, 480, 92, 2 | 4, 8, 4, 4 | |
| | a) 480 | - | b) 92 | c)24 | d)8 | |
| 40. | If P denotes X, | Q denotes /, R de | enotes +, ai | nd S denotes - | , Find the value of | |
| | 2/5 Q 5 K 85 X | 5 5 P25 | 22 | () 15 | 1) 20 | |
| | a) 10 | (b) | 23 | (c) 15 | d) 20 | |
| | | | <u>T</u> | EST OF REA | ASONING | |
| 41. | Cyclone is related | ted to Anticyclon | e in the sar | me way as flo | od is related to | |
| | a)Devastation | b)Havo | c c) | River | d)Drought | (R.R.B ,2002) |
| 42. | Needle: Clock | ; Wheel:? | | | | |
| | a) Walk | b) Roadc) Vehi | cle d) | Driving | (R.R.B ,2004) | |
| 43. | Select a figure | from amongst the | Answer F Figures | figures which | will continue the sar | ne series as |



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.



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.



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.

| ┍┸╪┰┚ | Н | 4 | j [H] | |
|-------|------|-----|-------|------|
| (X) | (1) | (2) | (3) | (4) |
| a) 1 | b) 2 | 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 | Х | 3 | 36 |
| a) 4 | | | | |

b) 7 c) 9 d) 3

| | | | Answer Key |
|---|---|--|--|
| EVERY | DAY SCIENCE | _GENERAL STUDIES | CURRENT AFFAIRS |
| 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. | B D C D A D D C | 11.D 12.B 13.B 14.A 15.B 16.D 17.B 18.C 19.C 20.A | 21.C 22.A 23.D 24.D 25.C 26.B 27.C 28.B 29.C 30.C |
| 31. | Let the smaller nu $\therefore x + 1365 = 6x$ $\implies 5x = 1350$ $\implies x = 270$ \therefore Smaller numl | Sumber be x. Then larger num x + 15 | ber = $(x + 1365)$. |
| 32. | Sum of digits = (5 x = 2. | 5 + 1 + 7 + x + 3 + 2 + 4) = 0 Ans. C | (22 + x), which must be divisible by 3. |
| 33. | $(2^{n})^{1/2}=64$ $2^{n/2}=64$ $2^{n/2}=2^{6}$ n/2=6 n=12 Ans:(d) | | |
| 34. | $(a/b)^{x-1} = (b/a)^{x-3}$ $(a/b)^{x-1} = (a/b)^{-(x-3)}$ $(a/b)^{x-1} = (a/b)^{3-x}$ $x-1=3-x$ $x+x=3+1$ $2x=4$ $x=2$ Ans;(c) | | |
| 35. | $\frac{(a-b)^2 + (a+b)^2}{a^2 + b^2 a^2 + b^2} = \frac{2(a+b)^2}{a^2 + b^2 a^2 + b^2}$ Ans = B | $\frac{a^2+b^2}{2} = 2$ | |
| 36. | Let the Number b 7X - 15 = 2X + 10 7X - 2X = 10 + 15 5X = 25 X = 5 | e X 5 | |
| 37. | In each circle, sta by 2 for the upper left. | rting at the top left segment, left circle, 3 for the upper ri | numbers increase, as you move clockwise, ght, 4 for the lower right and 5 for the lower Ans: 13 |
| 38. | $5 x 5 \bigoplus 3 x 3 = 2$ $6 x 6 \bigoplus 2 x 2 = 36$ $7 x 7 \bigoplus 1 x 1 = 49$ | $5 \bigoplus 9 = 34$ $5 \bigoplus 4 = 40$ $0 \bigoplus 1 = 50 $ Ans: c) 50 | |
| 39. | Go on dividing by Clearly, 92 is wron | 7 6, 5, 4, 3, 2, 1 respectively ng. Ans: B | to obtain the next number. |
| 40. | 275 / 5 + 85 - 5 X | 25 = 55+85-125 = 15 | Ans: C) 15 |
| 41. 42. | D. Ans: C | | <u>Answer KeY</u> |

43. Ans: (1)

- 44. Ans: (1)
- 45. Ans: (2)
- 46. Ans: D
- 47. Ans: A
- 48. Ans: C
- 49. BHASHA BRAIN <u>AHINSA</u> 1 54754 13408 <u>450874</u> Ans:a)
- 50. 5 + 9 = 14 x 6 = 84 7 +3 = 10 x 7 = 70 8 + 6 = 14 x 4 = 56 5 + 7 = 12 x 3 = 36 Ans: b) 7

VIVEKANANDA COLLEGE, TIRUVEDAKAM WEST-625234 GENERAL KNOWLEDGE Everyday Science

08.07.2017

2

| | Everyday Science | |
|-----|---|--|
| 1. | Exposure to sunlight helps a person improves his health because | |
| | (b) The infra-red light kills bacteria in the body (b) resi | stance power increase |
| | (c) the pigment cells in the skin get stimulated and produce a heat | althy 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 diab | etes? |
| 4 | (b) Antibiotics (b) insulin (c) penicillin | (d) streptomycin |
| 4. | An element common to all acids is | (d) chloring |
| 5 | (b) Oxygen (b) nydrogen (c) sulphur | (u) chiorme |
| 5. | (b) Fuse (b) fluorescent lamp (c) bearing aid | (d) wrist watch |
| 6 | Steel is more elastic than rubber because | (d) whist watch |
| 0. | (a) It's density is high (b) it is a metal (c) ratio of stress to strai | n 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 la | w (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 calv | in (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: | |
| 10 | (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) I ropical depressions (b) westerly disturbances (c) wave c | yclones (d) relief condition |
| | (a) a and b (b) b and a (c) c and d | (A) a and d |
| 13 | The 'Vaccine safety Net' site has been launched by the | (4) a and u |
| 15. | (c) State Government of Tamilnadu (b) World Heal | th Organisation (C) |
| | ministry of Health and Family welfare. India (d) Bill and | Melinda Gates Foundation |
| 14. | . Which among the following cities has decentralized biomethanati | on plants? |
| | (a) Patna (b) Pune (c) Kolkata | (d) New Delhi |
| 15. | . With reference to the United Nations Convention to Combat Des | ertification (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 | |
| 10 | (d) 1 and 2 (b) 2 and 3 (c) 1 and 3 | (d) $1, 2$ and 3 |
| 16. | (d) United bins down (b) Italy | (d) English and |
| 17 | (d) United kingdom (b) Italy (c) United states of Ai | nerica (d) France. |
| 17. | following about it: | inc development of the country. Consider the |
| | 1 More then half of the Gross Domestic Producer (GDP) come | es from MSMEs |
| | 2 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 |
| 18. | . Which of the following are silk centers of India? | |
| | 1. Dharmavaram 2. Sualkuchi 3. Bailapur 4. Cha | nderi |
| | Select the correct answer using the codes below: | |
| | (b) 1, 2 and 3 only (b) 2 and 4 only (c) 1,2 | 2 and 4 only (d) 3 and 4 only |
| 19. | . Which of the following about the National Mineral Exploration P | olicy (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 | |
| 20 | (d) Both (a) and (b) (d) None of the above | tomational National Monotom, Eurod (DME)? |
| 20. | (b) Easter global monotory appropriation (b) Eastlitate interneti | appel trade. (a) Poduce poverty around the world |
| | (a) Design national intellectual property agreement | Shar trade (c) Reduce poverty around the world |
| | (c) Design national intercetual property agreement | fairs |
| 21 | . Who has won the men's singles title of Australian open Tennis G | rand Slam 2017? |
| | (a)David ferrer (b) Rafael Nadal (c) Rog | er Federer (d) Novak Diokovic |
| 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 the 2017. Which was the first court | hrough its ruling re atry to recognize it | cognized the G | anga and Yamu og entity? | una rivers as living entities in Ma | arch | | |
|-----|--|--|--|-------------------------------------|--|-------------------|--|--|
| | (b) Australia (b) USA (c) | New Zealand (d) | Japan | g entry . | | | | |
| 24. | 4. Who has become the 21 st Lt. Governor of Delhi? | | | | | | | |
| 25. | (b) Tejendra Khanna (b) An In percentage terms, which Inc | ii Baijal (c) A.B.S. lian State has the h | ingh (d) Najee ighest forest co | b Jung ver? | ndash | | | |
| 26. | (b) Madnya Pradesn (b) Jam Which of the following is not a (b) Reliance (b) ITC (c) TC | a conglomerates? | (c) Nagaland (d |) Arunachai Pr | adesn | | | |
| 27. | Which film has won the Best F (a) Moonlight (b) La La Lan | Picture Award at th | e 89 th Academy on (d) Manches | Awards annou ter by the Sea | inced in Feb 2017? | | | |
| 28. | (a). Aung San Suu Kyi (b) Pe Pilatus PC-7 is a(n): | rvez Musharra | (c) Nelson Ma | ndela | (d) Bill Clinton | | | |
| 20 | (b) Frigate (b) aircraft carrie Which of the following countr | er (c) ship (d) air | craft External Debt? | | | | | |
| 27. | (a) United Kingdom (b) Fra | ince (c) USA (d) | India | | | | | |
| 30. | Raspberry Pi is a: (b) Computer-sized credit can | rd (b) former name | of iMac (c) cre | dit card –sized | dessert (d) credit card-sized cor | nputer | | |
| 0.1 | | Quan | titative Aptit | <u>ude</u> | | | | |
| 31. | $(-251 \times 21 \times -12) \div ? = 158$ | 3.13 | (4)150 | (a) None of t | hasa | | | |
| 20 | (a) 250 (b) 400 $(15 \ 20)^2$ 102 04 : 2 = 8 | (c) 300 | (d)150 | (e) None of t | nese | | | |
| 32. | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | (c) 8.2 | (d) 16 | (e) None of t | hese | | | |
| 33. | $333 \times 33 \times 3 = ?$ (a) 32697 (b) 36297 | (c) 32679 | (d) 39267 | (e) None of f | hese | | | |
| 34. | (a) 32077 $(b) 302771148 \div 28 \times 1408 \div 32 = ?$ | (0) 32079 | (u) <i>37201</i> | | | | | |
| | (a)1800 (b) 1804 | (c) 1814 | (d) 1822 | (e) None of t | hese | | | |
| 35. | $1425 + 8560 + 1680 \div 200 = 2$ | 2 | | | | | | |
| 36. | (a) 58.325 (b) 9973.4 4 16 36 64 100 ? | (c) 56.425 | (d) 9939.4 | (e) None of t | hese | | | |
| 37. | (a) 120 (b) 180 102 99 104 97 106 1 | (c) 136 ? | (d) 144 | (e) None of t | hese | | | |
| | (a) 96 (b) 95 | (c) 100 | (d) 94 | (e) None of t | hese | | | |
| 38. | The cost of 7 tables and 12 cha | airs is `48250. Wh | nat is the cost o | f 21 tables and | 1 36 chairs? | | | |
| 30 | (a) 96500 (b) 1,25,500 (A) can complete a piece of w | (c) $1,44,750$ | (d) Cannot be | determined (e) | None of these ate the same piece of work in 8 d | lave | | |
| 59. | In how many days can 'B' alor | ne complete the sa | me piece of wor | k? | the the same piece of work in 8 c | lays. | | |
| 40 | (a) 15 days (b) 18 days | (c) 24 days | (d) 28 days | (e) None of t | hese | | | |
| 40. | Raman drove from nome to a f the speed of 45 kms/hr. and als | so took an hour lon | at the speed of ger to reach ho | 50 kms/hr. and me. What dista | nce did he cover each way? | ive at | | |
| | a) 450 kms. (b) 225 km | is. (c) 900 km | ms. $(d) 5($ | 00 kms. (e) | None of these | | | |
| 41. | In a certain code BOARD is w | ritten 53169 and N | EAR is written | <u>ING</u> as 2416. How | is NODE written in that code? | | | |
| 10 | a) 2394 (b) 2894 | (c) 2934 | (d) 2694 | (e) None of t | hese | | | |
| 42. | B B C B C D B C D E B C D | E F B C D E F G | B C D E F | | | | | |
| 12 | a) B (b) G | (c) H | (d) D | (e) None of t | hese ma 'PED' · 'PED' maana 'WO | и ст'. | | |
| 43. | 'VIOLET' means 'BLACK'; t | hen which of the fo | ollowing will be | the color of h | uman blood? | LEI, | | |
| 4.4 | (a) Red (b) Black | (c) Green | (d) white | (e) None of t | hese | | | |
| 44. | (a) AERT (b) ATRE | (c) ARET | (d) REAT | (e) None of t | hese | | | |
| 45. | If ' \times ' means 'added to'; '- | ÷' means 'multip | lied by'; '+' r | neans 'subtra | cted from' and '-' means 'd | livided | | |
| | 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 famil of 'E's husband 'D' is the fat | y namely 'A', 'B' | ,'C','D','E' ndfather of 'F" | , and 'F', 'C How is 'D' r | ' is the sister of 'F', 'B' is the belated to 'C'? | orother | | |
| | (a) Father (b) Uncle | (c) Grandfather | (d) Bro | other | | | | |
| 47. | Rajesh walked 25 meters towa walked 25 meters. He again tu | rds South. Then he rned to his right an | e turned to his le | ft and walked 2 sters. At what c | 20 meters. He then turned to his listance is he from the starting period | left and oint and | | |
| | in which direction? | | | | | | | |
| 10 | a) 35 metersEast (b) 6 | U metersEast | (c) 35 meters | North (d) | 40 metersEast | | | |
| 48. | (a) Pen : Cap (b) B | ook : Cover | (c) Handle : Sh | nade (d) F | rame : Picture | | | |
| 49. | Traffic : Road | (h) Roote · Tro | $(c) \mathbf{R} \mathbf{I}$ | ood · Veine | (d) Car: Carage | | | |
| 50. | ZAJ, YBK, XCL, WDM, "?" | | | | (u) cui. Cui age | | | |
| | (a) VEN (b) VFM | (c) VEM | (d) VNO ♦♦♦♦♦♦ | | | | | |

Answer Key

21.C

22.A

23.C

24.B 25.D

26.C

27.A

28.D

29.D

30.D

GENERAL STUDIES CURRENT AFFAIRS EVERY DAY SCIENCE 11. D 11.D 12. A 12.D 13. B 13.B 14. B 14.B 15. C 15.A 16. C 16.C 17. D 17.B 18. C 19. C 18.C 19.C 20. B 20.D 31.B: <u>(-251 × 21 × - 12)</u> ? = 158.13 $? = \frac{63252}{158.13} = 400$ 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 = 1/8B'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. $\frac{s}{50} + 1 = \frac{s}{45}$ $\frac{s}{45} - \frac{s}{50} = 1$ $\frac{(20-18)S}{900} = 1$ $S\frac{900}{2} = 450$ 41.A B.....5, O....3, A....1, R....6, D.....9, N.....2, E.....4 NODE= 2394 42.C: SPORADI C ROPSCIDA $-1 \downarrow \downarrow \downarrow \downarrow \downarrow \downarrow \downarrow \downarrow \downarrow \downarrow$ Q N O R D J E B Similarly TROUBLE S UORTSE L B $\downarrow \downarrow \downarrow \downarrow \downarrow \downarrow \downarrow \downarrow \downarrow \downarrow \downarrow$ TNQSTF MC 43.D.VIOLET 44.A 45.B 46.C 47.A 48.D 49.C 50.A

VIVEKANANDA COLLEGE, TIRUVEDAKAM WEST-625234 15.07.2017 **GENERAL KNOWLEDGE Everyday Science** 1. If force is expressed in Newton and the distance in meter, then the work done is expressed in (d) Watt (a) Joule (b) Kg wt (c) Kg wt m A person born with the inner ear missing 2. (b) would never be able to her sound (a) Would not have the Eustrachian tube (c)would be able to hear only with an electronic hearing aid (d) could only hear a loud explosion The isotopes of an element contain the same number of 3. (c) Neutrons and protons (b) protons but different number of neutrons (c) neutrons and protons but different number of electrons (d) neutrons and electrons but different number of protons The reaction which converts sugar solution into alcohol is an example of 4. (b) hydrogenation (c) fermentation (d) hydrolysis (c) Saponification 5. A body falling freely from a height towards the earth moves with uniform (c) acceleration (c) Speed (b) velocity (d) weight The clear sky looks blue because of 6. (b) Reflection of light (b) refraction of light (c) diffraction of light (d) dispersion of light The drug quinine is used in the treatment of 7. (c) Bubonic plague (d) yellow fever (b) malaria (c) typhus Which one of following elements is least likely to be found in commercial fertilizers? 8 (c) Nitrogen (b) phosphorus (c) potassium (d) silicon Of the blood groups A, B, AB and o, which one is transfused into a person whose blood group is A? 9. (d) Group AB only (c) Group A only (b) Group B only (c) Group A and O 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. The higher the 'Clean Air Delivery Rate (CADR)' number, the more effective the air-2. purifier is for a given size of room. Which of the statements given above is/are correct? (a) 1 only (c) Both 1 and 2 (b) 2 only (d) Neither 1 nor 2 12. The 'Sunflower Movement' was a movement against the growing influence of China in e) Hong Kong (c) Taiwan (d) Mongolia (b) Macau 13. The European Union was established under its current name in 1993 following the (b) Maastricht Treaty (c) Treaty of Vienna (d) Treaty of Bonn (d) Berlin Treaty 14. The Geographical Indication (GI) tag is to be given to 'Nilambur' from Kerala. It's a variety of (c) coconut (b) teak (b) rice (d) clove 15. 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. 16. 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. 17. Consider the following about National Population Commission (NPC) of India: 1. It is chaired by the Prime Minister of India It Conducts the decennial demographic Census in India 2. 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? (b) 2 only (c) Both 1 and 2 (a)1 only (d) None **Numerical Ability** 21. The body weight of 7 students of a class is recorded as 54 kg, 78 kg, 43 kg, 82 kg, 67 kg, 42 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 (c) 36 (a) 30 (b) 32 (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



* * * * * *

Numerical Ability

21. $\frac{(54+78+43+82+67+42+75)}{7} = 63 \text{ kg}$ 22. Let the numbers be $4 \times$, $5 \times$ and 6x. Then $\frac{4x+5x+6x}{3} = 25 \Leftrightarrow 5 \times = 25 \Leftrightarrow \times = 5.$ \therefore largest number = 6× = 30. 23. Population after 2 years = 8500 $\left(1 + \frac{20}{100}\right) \left(1 + \frac{25}{100}\right)$ $= \left(8500 x \frac{6}{5} x \frac{5}{4}\right) = 12750$ 24. Let market price = 100. Then cost price (CP) = 64, selling price (SP) = 88 \therefore Gain %= $\left(\frac{24}{64}x\ 100\right)$ % = 37.5% $25.\frac{A}{B} = \frac{2}{3}, \frac{B}{C} = \frac{2}{4}, \frac{C}{D} = \frac{2}{5} \implies \frac{A}{D} = \left(\frac{A}{B}X\frac{B}{C}X\frac{C}{D}\right)$ $= \frac{2}{3}X\frac{2}{4}X\frac{2}{5} = \frac{2}{15} \implies A: D = 2:15$ 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, $\frac{2\pi r}{2\pi R} = \frac{2}{3} \Longrightarrow \frac{r}{R} = \frac{2}{3} \Longrightarrow \frac{r^2}{R^2} = \left(\frac{2}{3}\right) 2 \Longrightarrow \frac{\pi r^2}{\pi R^2} = \frac{4}{9}$ Hence ratio of areas = 4:928. Here s= (HH,HT, TH, TT) Let E = event of getting at least one head = (HT, TH, HH) $\therefore P(\mathsf{E}) = \frac{n(E)}{n(S)} = \frac{3}{4}$ 29. In two throws of a die, n (S) = $(6 \times 6)=36$ Let E = event of getting a doublet $= \{(3,6), (4,5), (5,4), (6,3)\}$:. $P(E) = \frac{n(E)}{n(s)} = \frac{4}{36} = \frac{1}{9}$ 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^{st} letter: A $\xrightarrow{+1} \rightarrow B \xrightarrow{-1} \rightarrow C \xrightarrow{+1} \rightarrow D \xrightarrow{+1} (E)$ 2nd letter: Z $\xrightarrow{-5}$ U $\xrightarrow{+(5-2)=+3}$ X $\xrightarrow{-(3-2)=-1}$ W $\xrightarrow{+(1-2)=-1}$ 3rd letter: Y $\xrightarrow{-5}$ T $\xrightarrow{+(5-2)=+3}$ W $\xrightarrow{-(3-2)=-1}$ V $\xrightarrow{+(1-2)=-1}$ _►(V) ▶ (U) 33. (b): The series is <u>ab/ab/ab/ab/ab/ab</u>. Thus the pattern 'ab' repeated 34. (c): 'Dwarf' is the antonym of 'Giant'. Similarly, the antonym of 'Genius' is 'Idiot'. 35. (c): In each set, 2^{nd} number = $(1^{st}$ number + 101) and 3^{rd} number = $(2^{nd}$ number + 101) 36. (b): – Vegetables Cabbage. Potato and Cabbage are entirely different. But both are vegetables Potato 37. (c) 38. (C): $\frac{5 \times 6 \times 4}{10} = 12$ $\frac{6 \times 7 \times 5}{10} = 21$ so missing no $= \frac{4 \times 8 \times 10}{10} = 32$ 39. (b) 40. (a) using the propr signs in the given expression $175 \div 25 + 5 \times 20 - 3 \times 10 = 7 + 5 \times 20 - 3 \times 10 = 7 + 100 - 30$ = 107 - 30 = **77 Current Affairs** 41. C, 42. D, 43. D, 44. D, 45. D, 46. D, 47. A, 48. Monazite, 49. C, 50. A

VIVEKANANDA COLLEGE, TIRUVEDAKAM WEST-625234 GENERAL KNOWLEDGE



EVERYDAY SCIENCE

- 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. _____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 assetsb) 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

4) Ministry of finance, GOI.

- 3) Technical advisory committee on monetary policyd) 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?

 a scheduled commercial bank issuing a cheque to its customer
 a customer depositing a money in scheduled commercial bank
 a customer depositing a money in scheduled commercial bank
 b 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
 5) and 2
 b) 1 only
 c) 2 and 3
 d) 1
 c) 2 and 3
- 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 b) only 2 c) only 3 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

20. Analyse in the context of NABARD -1. NABARD was established in 1982 through a parliamentary act. 2. NABARD provides consultancy services. 3. only agricultural loans are provided by it. 4. it monitors rural financial institutions. 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 (c) Cancer (a) Kidney diseases (b) Eye diseases
- (d) Bone diseases.
- (a) Football (b) Weight Lifting (c) Hockey (d) Cricket. 24. 'Santosh Trophy' is associated with (a) 8^{th} January (b) 5^{th} October (c) 10^{th} December (d) 23^{rd} June 25. Human Rights day is celebrated on the ____
- 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 (c) Mundanthurai Tiger (b) Nilgiri Thar (d) Mudumalai Elephant.
- 28. Special Education programmes were developed by _ (a) UNO (b) WHO (c) UNESCO (d) ILO
- women's Universitie(s) in Tamil Nadu. 29. There is/are (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 (c) 46 years (d) 36 years (b) 38 years (e) None of these
- 32. $(81)^4 / (9)^5 = ?$ (c)729 (a) 9 (b)81 (d)6561 (e) None of these
- 33. $(19)^{12} \times (19)^8 / (19)^4 = (19)^2$ (d)24 (e) None of these (a) 6 (b)8 (c)12
- 34. The value of $\log_2 16$ is (a) 1/8 (e) None of these (b)4 (c)8 (d)16
- 35. The value of $\log_{10}(0.0001)$ is (e) None of these (a) 1/4 (b)- 1/4 (c) -4 (d) 4
- (c) 75 % 36. How is $\frac{3}{4}$ expressed as percentage? (a) 0.75 % (b) 7.5 % (d)60% (e) None of these
- 37. The ratio 5 : 4 expressed as percent equals (a)12.5 % (b) 40 % (c)80 % (d)125 % (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? (b) TNQSRDKA (c) TNQSTFMC (a) SQTNTFMC (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 (b) Iron (c) Aluminium (d) Chlorine
- (b) Wood : Paper (c) Juice : Health 43. Milk : Butter (a) Banana : Fruit (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 (c) FKJ (d) FJK (b) FKL (c) Snow : Water (d) Pink : Blue 46. Horse : Cow (a) Milk : Ice-cream (b) Mars : Moon
- 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 (b) 10.6 km (a) 12.5 km (c) 5.5 km (d) 3.6 km
- 49. GHIZ, JKLY, MNOX, "?", STUV (a)OPQY (b) PQRS (c) PQRW (d) PQRV
- (a) Antique : Museum (b) Crime : Punishment (c) Thief : Prison (d) Animals : Zoo 50. Bird : Cage

EVERYDAY SCIENCE: 1. D 2.C 3.D 4.B 5.C 6. B 7. B 8.C 9.C 10.A GENERAL STUDIES: 11.D 12.D 13.B 14.D 15.C 16.B 17.C 18.A 19.C 20.C **CURRENT AFFAIRS:** 21.D 22.C 23.D 24.A 25.C 26.C 27.B 28.C 29.D 30.A **QUANTITATIVE APTITUDE:** 35.C 36.C 31.C 32.C 33.E 34.B 37.D 38.E 39.A 40.A 31. Sol: Let mother's age be 7x years. Then, daughter's age = x 7x - 4 = 19 (x - 4)19x - 7x = 76 - 412x = 72; x = 6Mother's age after 4 years = (7x + 4); = $(7 \times 6 + 4)$ years = 46 years 32. Sol: $(81)^4 / (9)^5 = (9^2)^4 / (9)^5 = (9)^8 / (9)^5 = 9^{(8-5)} = 9^3 = 729$ 33. Sol: $(19)^{12} \times (19)^8 / (19)^4 = (19)^{12+8} / (19)^4 = (19)^{20} / (19)^4 = 19^{(20-4)} = 19^{16}$ 34. Sol: $\log_2 16 = \log_2 2^4 = 4 \log_2 2 = 4$. 35. Sol: $\log_{10}(0.0001) = \log_{10}(1 / 10000) = \log_{10}(1 / 10^4) = \log_{10} 10^{-4} = -4 \log_{10} 10 = -4$ 36. Sol: $\frac{3}{4} = (\frac{3}{4} \times 100) \% = 75 \%$ 37. Sol: $5: 4 = 5/4 = (5/4 \ge 100) \% = 125 \%$ 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 $250x = (200 \ge 60)$; $x = (200 \ge 60) / 250 = 48$ 40. **Sol**: It follows by 2x + 2 series from R.H.S $(1.125) \times 2 + 2 = 4.25$; $(4.25) \times 2 + 2 = 10.5$ etc., **TEST OF REASONING:** 41.C 42.D 43.B 44.D 45.C 46.D 47.B 48.A 49.C 50.C .41. (C) 0 D C $R \rightarrow D$ P ↓ 0 S ↓ R U↓ 0 U в Ţ

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.



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

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

- 1. Which one of the following types of Laser is used in Laser Printers? B. Excimer Laser A. Semiconductor 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 : B. Nitrogen C. Sulphur **D**. Phosphorus A. Chlorine
- 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
- B. Satellite 5. A re-usable space rocket is called C. Space shuttle A. Apollo D. Skylab 6. Which of the following rays is used for eliminating bacteria?
- C. Ultra-violet rays A. Alpha rays B. Infrared rays D. Microwave rays
- 7. Which of the following is used in pencils? A. Graphite B. Silicon C. Charcoal **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 A. pain killer B. fire extinguisher C. mosquito repellent 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

GENERAL STUDIES

- 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)
 - 1. To bring the idle gold lying with Indian household s into the economy
 - 2. 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
- TNFS PAPER I (GS)- 2014 15. Mixed Economy refers to A. Coexistence of Small and Larger industries
 - 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 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
 - B. Open Market Operation C. Cash Reserve Ratio D. Moral Suasion A. Bank Rate Policy
- 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 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 1st April, 2004 25. Biological Oxygen Demand (BOD) is a standard criterion for

- (a) Measuring oxygen levels in blood
- (c) Pollution assay in aquatic ecosystems
- (b) Computing oxygen levels in forest ecosystems
- (d) Assessing oxygen levels in high altitude regions

29.07.2017



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 12.C 13.D 16.C 17.D 18.C **GENERAL STUDIES:** 11.A 14.C 15.C 19.A 20.C 21.A 22.A 23.D 24.D 25.C 26.D 27.A 29.A 30.A CURRENT AFFAIRS: 28.A 36.A 37.B QUANTITATIVE APTITUDE: 31.A 32.A 33.B 34.B 35.C 38.A 39.B 40.D 31.9 + 2 = 11, 11 + 4 = 15, 15 + 8 = 23, 23 + 16 = 39, 39 + 32 = 71Ans : a) 71 32. It follows by 2x + 2 series form R.H.S Ans: a) 10.5 $=> (1.125) \ge 2 + 2 = 4.25 \implies (4.25) \ge 2 + 2 = 10.5 \implies (10.5) \ge 2 + 2 = 23 \implies (23) \ge 2 + 2 = 48$ 33. Total number of balls = (6 + 4 + 2 + 3) = 15Let E be the event of drawing 2 red balls. $n(E) = {}_{6}C_{2} = \frac{6 \times 5}{2 \times 1} = 15, \quad n(s) = {}_{15}C_{2} = \frac{15 \times 14}{2 \times 1} = 105, P(E) = \frac{n(E)}{n(S)} = \frac{15}{105} = \frac{1}{7} Ans : b)\frac{1}{7}$ Then, 34. Number of blue balls = 3 balls Number of green balls = 2 balls, 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, ${}_{10}C_4 = \frac{10!}{4!x(10-4)!} = \frac{10 \times 9 \times 8 \times 7}{4 \times 3 \times 2 \times 1} = 210$ Favourable outcomes = (selection of 2 green balls out of 2 balls)x (selection of 2 balls out of 3 blue balls) $= {}_{2}C_{2} x_{3}C_{2} = \frac{2 x 1}{2 x 1} x \frac{3 x 2 x 1}{2 x 1} = 1 x 3 = 3$ Required probability = $\frac{Favorable \ out \ comes}{Total \ possible \ outcomes} = \frac{3}{210} = \frac{1}{70}$ Ans :b) $\frac{1}{70}$ Ans :b) $\frac{1}{70}$ 35. The letters of the word 'BAKERY' be arranged in 6! ways st. $6! = 6 \times 5 \times 4 \times 3 \times 2 \times 1 = 720$ Ans: c) 720 36. There are six letters in the given word MOMENT and letter 'M' has come twice Required number of ways $=\frac{6!}{2!} = \frac{6 \times 5 \times 4 \times 3 \times 2 \times 1}{2 \times 1} = 360$ Ans:a) 360 37. Radius of circle = 7 cm Given Area of rectangle = Area of circle = $\pi r^2 = \frac{22}{7} \times 7 \times 7 = 22 \times 7 = 154 \text{ cm}^2$ Ans:b) 154 cm^2 38. Each edge of cube = a cm Total surface area of cube = $6a^2$ $\Rightarrow 6a^2 = 864$ $\Rightarrow a^2 = \frac{864}{6} = 144$ $\Rightarrow a = \sqrt{144} = 12 \text{ cm}$ A Volumn of cube = a^3 cu.cm = (12 x 12 x 12) cu. Ccm. = 1728 cu. cm. Ans: a) 1728 cm³ 39. Rate = $\frac{Simple \ Interest \ x \ 100}{Principal \ x \ Time} = \frac{5400 \ x \ 100}{15000 \ x \ 3} = 12 \ \% \ \text{per annum}$ Ans: b) 12% 40. A' 1 days work = $\frac{1}{24}$ B' 1 days work $=\frac{1}{5}$, C' 1 days work $=\frac{1}{12}$, (A + B + C) 's 1 days work $=\frac{1}{24} + \frac{1}{5} + \frac{1}{12}$ LCM of 24,5, and 12 2 2 2 x 2 x 3 x 2 x 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 42.B 43.D 44.A 45.C 46.D 47.B 48.C 49.C 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 x 2, x 3, ... Missing number = $114 \times 4 = 456$.

- 44. (A): In the given code, Z = 1, Y = 2, X = 3 ..., C = 24, B = 25, and A = 26. So, GO = 20 + 12 = 32 and 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° and pin moves ACW 45° 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.

VIVEKANANDA COLLEGE, TIRUVEDAKAM WEST-625234 GENERAL KNOWLEDGE <u>EVERYDAY SCIENCE</u>

| 1. | Plants receive their nutrients mainly from |
|---------|---|
| ~ | a) chlorophyll b) atmosphere c) light d) soil |
| Ζ. | a) ammonia b) urea c) uric acid d) ammonium nitrate |
| 3. | Most highly intelligent mammals are |
| 4 | a) whales b) dolphins c) elephants d) kangaroos |
| 4. 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 |
| 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 |
| 9. | The tendency of a process to occur naturally is called |
| | a) momentum of the reaction b) spontaneity of the reaction c) equilibrium of the reaction d) none of these |
| 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? |
| | 1. It leads to deflation in economy 2. It leads to increase in primary deficit |
| | (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. (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, |
| 14 | Which of the statement given above is/are correct? (a) I only (b) 2 only (c) Both I and 2 (d) Neither I nor 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 |
| 15 | Select the correct answer using the code given below: (a) 1 only (b) 3 only (c) 1 and 3 (d) All of the above The first Newspaper in India was (a) Sambad Kaumudi (b) Pangal Caratta (a) Marat ul Albar (d) Piencer |
| 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(a) Frictional Unamployment (b) Under Employment (c) Disguided Unamployment (c) Structural Unamployment |
| 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) |
| 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 |
| | |

02.09.2017

| | Which state will be the focus | s state at the 201° | 7 World Food In | ndia (WFI)? | ao1 | |
|--|--|---|--|--|---|--|
| 24 | Which city has become the li | ndia's first city t | o use robot to co | ontrol unruly traf | gai fic? | |
| 21. | [A] Indore [B] Pune | [C] | Kochi | [D] Raipur | | |
| 25 | Which Indian personality has | s been honoured | with the "Social | l Entrepreneur of | the Year" awa | rd at The 7 th |
| 26 | Asian Awards in London? | [A] Priti Patel | [B] Zayn Ma | alik [C] Nisha | Dutt [D] As | sha Bhosle |
| 26. | [A] Axis Bank [B] ICICI | first Indian bank Bank [C] | to launch bio-d State Bank of Ir | egradable prepai idia [D] Hl | d gift cards? DFC Bank | |
| 27. | Which Indian American has | been chosen for | the 2017 NASA | Astronaut Cand | idate Class? | |
| | [A] Kayla Barron [B] |] Jasmin Moghb | eli [C] H | Robb Kulin | [D] Raja Char | ri |
| 28. | The Mahananda Wildlife Sar | nctuary (MWS) | is located in whi | ch state? | | |
| 20 | [A] West Bengal [B] | Uttar Pradesh | [C] H | Bihar | [D] Assam | |
| 29 | Which country is hosting the | 2017 G7 summ | it? [A] Japan | [B] Canada | [C] Italy | [D] Germany |
| 30. | I he book Mann Ki Baal: a s | 1 Uday Mahurka | r i on radio has b | Pankai Kumar | (D) Raiach Ia | in |
| | [A] Jitelura Singh [D] | | | | | 111 |
| 31 | Find the highest common fac | vtor of 36 and 84 | $\frac{\mathbf{NIIIAIIVEAP}}{\mathbf{(a)}}$ | (b) 6 | (c) 12 | (d) 18 |
| 31. | 11/ $48 \pm 28 \times 1/108 \pm 32 = -2$ | (a)1800 | (b) 1804 | (0) 0 | (d)1822 | (u) 18 |
| 22. 22 | 1^{3} 1^{1} 1^{5} 2^{5} | $(a)^{1000}$ | $(b) 2^{7}$ | (c)101+ | $(d)_{1022}^{7}$ | |
| 55. | 1 - 1 - 1 - 1 - 1 - 1 - 1 = ? $\sqrt{196} - \sqrt{441} = 120$ | $(u) 2 \frac{1}{40}$ | $(D)3{40}$ | $(c)9\frac{-}{8}$ | $(u) = \frac{1}{40}$ | |
| 34. | $\frac{\sqrt{150}}{7} x \frac{\sqrt{111}}{7} x \frac{120}{\sqrt{225}} = ?$ | (a)48 | (b)54 | (c)58 | (d)84 | |
| 35. | The monthly income of five j | persons are 1132 | 2, 1140, 1144, 11 | 136 and 1148 res | pectively. Wha | t is their |
| 36 | Kupal bought 65 books for r | 0 	(0) | 120 shop and 50 box | (C)1152 oks for rs 1020 fr | (0)114 wom another W | W That is the |
| 50. | average price he paid per boo | s 1050 from one | (h)18 | R 20 | $(c)^{24}$ | (d) 36 40 |
| 37 | The ages of A and B are in the | ne ratio 6:5 and t | the sum of their | ages is 44 years. | What will be th | e ratio of their |
| 0 | ages after 8 years? (a)7: | 6 (b)8 | B:7 (c)9: | 8 (d)3:4 | | |
| 38. | Mr Kashyap purchased an air | rconditioner for | rs 12000 and sol | ld it for rs 15000 | . What was the | profit |
| | percentage? (a)15 | (b)20 | (c)25 | (d)35 | | |
| 39. | A farmer borrowed rs 3600 a | it 15% simple in | terest per annum | h. At the end of 4 | years, he clear | red this account |
| 40 | by paying rs 4000 and a cow | . the cost of the (27) | $\cos is (a) 100$ | (b)1200 | (c)1550 | (d)1760 |
| 40. | 8, 27, 64,100,125, 216, 343 | (a)2/ | (b)I | (0) (c) 125 | | (d)343 |
| | | | | | | |
| 4.1 | | <u>TES</u> | ST OF REASON | NING | 1 | (-) |
| 41. | Pointing a gentleman, Deepa | <u>TES</u> k said, "His only | ST OF REASON y brother is the f | NING Ather of my daug | hter's father." | How is the |
| 41. | Pointing a gentleman, Deepa gentleman related to Deepak. | TES k said, "His only Father | ST OF REASON y brother is the f (R.R.B 2002 | NING Ather of my daug 2) | ther's father." | How is the |
| 41. 42 | Pointing a gentleman, Deepa gentleman related to Deepak. a) Grandfather b) Kunal walks 10 km towards | TES k said, "His only Father North From the | ST OF REASON y brother is the f (R.R.B 2002 c) uncle re he walks 6 kn | NING Tather of my daug 2) d) No n towards South | thter's father." ne of this Then he walks | How is the |
| 41. 42. | Pointing a gentleman, Deepa gentleman related to Deepak. a) Grandfather b) Kunal walks 10 km towards East. How far and in which d | TES k said, "His only Father North. From the lirection is he wi | ST OF REASON y brother is the f (R.R.B 2002 c) uncle re he walks 6 kn ith reference to h | NING Tather of my daug 2) d) No n towards South. his starting point | hter's father." ne of this Then he walks | How is the 3 km towards |
| 41. 42. | Pointing a gentleman, Deepa gentleman related to Deepak, a) Grandfather b) Kunal walks 10 km towards East. How far and in which d a) 5 km West b) | <u>TES</u> k said, "His only Father North. From the lirection is he wi 7 km West | ST OF REASON y brother is the f (R.R.B 2002 c) uncle re he walks 6 kn ith reference to h c) 7 km East | NING ather of my daug 2) d) No n towards South. his starting point ⁶ t d) 5 ki | hter's father." ne of this Then he walks North- East. | How is the 3 km towards |
| 41.42.43. | Pointing a gentleman, Deepa gentleman related to Deepak. a) Grandfather b) Kunal walks 10 km towards East. How far and in which d a) 5 km West b) If P means 'division', T mean | <u>TES</u> k said, "His only Father North. From the lirection is he wi 7 km West ns 'addition', M | ST OF REASON y brother is the f (R.R.B 2002 c) uncle re he walks 6 kn ith reference to h c) 7 km East means 'subtract | NING ather of my daug 2) d) No n towards South. nis starting point t d) 5 ki cion' and D mean | hter's father." ne of this Then he walks North- East. s 'multiplicatio | How is the 3 km towards on', then what |
| 41.42.43. | Pointing a gentleman, Deepa gentleman related to Deepak, a) Grandfather b) Kunal walks 10 km towards I East. How far and in which d a) 5 km West b) If P means 'division', T mean will be the value of expression | TES k said, "His only Father North. From the lirection is he wi 7 km West ns 'addition', M on 12 M 12 D | ST OF REASON y brother is the f (R.R.B 2002 c) uncle re he walks 6 kn ith reference to h c) 7 km East means 'subtract 0 28 P 7T 15 ? (| NING 2) d) No n towards South. nis starting point? t d) 5 ki cion' and D mean (I.B.P.S 2002) | hter's father." ne of this Then he walks North- East. s 'multiplicatio | How is the 3 km towards on', then what |
| 41.42.43. | Pointing a gentleman, Deepa gentleman related to Deepak. a) Grandfather b) Kunal walks 10 km towards I East. How far and in which d a) 5 km West b) If P means 'division', T mean will be the value of expression a) -30 b) | TES k said, "His only Father North. From the lirection is he wi 7 km West ns 'addition', M on 12 M 12 D -21 | ST OF REASON y brother is the f (R.R.B 2002 c) uncle re he walks 6 kn ith reference to h c) 7 km East means 'subtract 28 P 7T 15 ? (c) 15 | NING ather of my daug 2) d) No n towards South. his starting point ⁶ t d) 5 ki tion' and D mean (I.B.P.S 2002) d) 45 | hter's father." ne of this Then he walks n North- East. s 'multiplication e) none of | How is the 3 km towards on', then what of this |
| 41.42.43.44. | Pointing a gentleman, Deepa gentleman related to Deepak a) Grandfather b) Kunal walks 10 km towards East. How far and in which d a) 5 km West b) If P means 'division', T mean will be the value of expression a) -30 b) Find the missing term. | TES k said, "His only Father North. From the lirection is he wi 7 km West ns 'addition', M on 12 M 12 D -21 | ST OF REASON y brother is the f (R.R.B 2002 c) uncle re he walks 6 kn ith reference to h c) 7 km East means 'subtract 0 28 P 7T 15 ? (c) 15 | NING ather of my daug 2) d) No n towards South. nis starting point t d) 5 kn cion' and D mean (I.B.P.S 2002) d) 45 (PGDC | hter's father." ne of this Then he walks n North- East. s 'multiplication e) none of A 2005) | How is the 3 km towards on', then what of this |
| 41.42.43.44. | Pointing a gentleman, Deepa gentleman related to Deepak. a) Grandfather b) Kunal walks 10 km towards 1 East. How far and in which d a) 5 km West b) If P means 'division', T mean will be the value of expression a) -30 b) Find the missing term. 1 2 3 | TES k said, "His only Father North. From the lirection is he wi 7 km West ns 'addition', M on 12 M 12 D -21 | ST OF REASON y brother is the f (R.R.B 2002 c) uncle re he walks 6 kn ith reference to h c) 7 km East means 'subtract 0 28 P 7T 15 ? (c) 15 | NING ather of my daug 2) d) No n towards South. his starting point ⁶ t d) 5 ki tion' and D mean (I.B.P.S 2002) d) 45 (PGDC | hter's father." ne of this Then he walks n North- East. s 'multiplication e) none of A 2005) | How is the 3 km towards on', then what of this |
| 41.42.43.44. | Pointing a gentleman, Deepa gentleman related to Deepak. a) Grandfather b) Kunal walks 10 km towards East. How far and in which d a) 5 km West b) If P means 'division', T mean will be the value of expression a) -30 b) Find the missing term. 1 2 3 $4 5 6$ | TES k said, "His only Father North. From the lirection is he wi 7 km West ns 'addition', M on 12 M 12 D -21 | ST OF REASON y brother is the f (R.R.B 2002 c) uncle re he walks 6 kn ith reference to h c) 7 km East means 'subtract 0 28 P 7T 15 ? (c) 15 | NING ather of my daug 2) d) No n towards South. nis starting point ⁴ t d) 5 kn cion' and D mean (I.B.P.S 2002) d) 45 (PGDC | hter's father." ne of this Then he walks? n North- East. s 'multiplication e) none of A 2005) | How is the 3 km towards on', then what of this |
| 41.42.43.44. | Pointing a gentleman, Deepa gentleman related to Deepak. a) Grandfather b) Kunal walks 10 km towards I East. How far and in which d a) 5 km West b) If P means 'division', T mean will be the value of expression a) -30 b) Find the missing term. 1 2 3 $4 5 6$ $7 8 9$ | TES k said, "His only Father North. From the lirection is he wi 7 km West ns 'addition', M on 12 M 12 D -21 | ST OF REASON y brother is the f (R.R.B 2002 c) uncle re he walks 6 kn ith reference to h c) 7 km East means 'subtract 0 28 P 7T 15 ? (c) 15 | NING ather of my daug ather of my daug 2) d) No n towards South. nis starting point ⁶ t d) 5 kn tion' and D mean (I.B.P.S 2002) d) 45 (PGDC | hter's father." ne of this Then he walks n North- East. s 'multiplication e) none of A 2005) | How is the 3 km towards on', then what of this |
| 41.42.43.44. | Pointing a gentleman, Deepa gentleman related to Deepak. a) Grandfather b) Kunal walks 10 km towards I East. How far and in which d a) 5 km West b) If P means 'division', T mean will be the value of expression a) -30 b) Find the missing term. 1 2 3 $4 5 6$ $7 8 9$ $27 38 ?$ | TES k said, "His only Father North. From the lirection is he wi 7 km West ns 'addition', M on 12 M 12 D -21 | ST OF REASON y brother is the f (R.R.B 2002 c) uncle re he walks 6 kn ith reference to h c) 7 km East means 'subtract 0 28 P 7T 15 ? (c) 15 | NING ather of my daug 2) d) No n towards South. nis starting point t d) 5 kn fion' and D mean (I.B.P.S 2002) d) 45 (PGDC) | hter's father." ne of this Then he walks? n North- East. s 'multiplicatio e) none o A 2005) | How is the 3 km towards on', then what of this |
| 41.42.43.44. | Pointing a gentleman, Deepai gentleman related to Deepak. a) Grandfather b) Kunal walks 10 km towards I East. How far and in which d a) 5 km West b) If P means 'division', T mean will be the value of expression a) -30 b) Find the missing term. 1 2 3 $4 5 6$ $7 8 9$ $27 38 ?$ a) | TES k said, "His only Father North. From the lirection is he wi 7 km West ns 'addition', M on 12 M 12 D -21 | ST OF REASON y brother is the f (R.R.B 2002 c) uncle re he walks 6 kn ith reference to h c) 7 km East means 'subtract 0 28 P 7T 15 ? (c) 15 | NING ather of my daug ather of my daug 2) d) No n towards South. nis starting point ⁶ t d) 5 kn tion' and D mean (I.B.P.S 2002) d) 45 (PGDC 1 | (hter's father.") ne of this Then he walks n North- East. s 'multiplicatio e) none o A 2005) d) 52 | How is the 3 km towards on', then what of this |
| 41.42.43.44.45. | Pointing a gentleman, Deepal gentleman related to Deepak. a) Grandfather b) Kunal walks 10 km towards I East. How far and in which d a) 5 km West b) If P means 'division', T mean will be the value of expression a) -30 b) Find the missing term. $\boxed{1 \ 2 \ 3} \\ \hline{4 \ 5 \ 6} \\ \hline{7 \ 8 \ 9} \\ \hline{27 \ 38 \ ?} \\}$ a)49 b) 5 | TES k said, "His only Father North. From the lirection is he wi 7 km West ns 'addition', M on 12 M 12 D -21 | ST OF REASON y brother is the f (R.R.B 2002 c) uncle re he walks 6 kn ith reference to h c) 7 km East means 'subtract 0 28 P 7T 15 ? (c) 15 c) 5 ion. Suddenly Yo | NING ather of my daug ather of my daug 2) d) No n towards South. nis starting point t d) 5 kn fion' and D mean (I.B.P.S 2002) d) 45 (PGDC) 1 u notice that the ra | hter's father." ne of this Then he walks? n North- East. s 'multiplicatio e) none o A 2005) d) 52 nilway track is bi | How is the 3 km towards on', then what of this |
| 41. 42. 43. 44. 45. | Pointing a gentleman, Deepai gentleman related to Deepak. a) Grandfather b) Kunal walks 10 km towards I East. How far and in which d a) 5 km West b) If P means 'division', T mean will be the value of expression a) -30 b) Find the missing term. $ \begin{array}{r} \hline 1 & 2 & 3 \\ \hline 4 & 5 & 6 \\ \hline 7 & 8 & 9 \\ \hline 27 & 38 & ? \\ \hline a) 49 \\ \end{array} $ b) 5 A train is coming and you are st a) leave the station | TES k said, "His only Father North. From the lirection is he wi 7 km West ns 'addition', M on 12 M 12 D -21 | ST OF REASON y brother is the f (R.R.B 2002 c) uncle re he walks 6 kn ith reference to h c) 7 km East means 'subtract 0 28 P 7T 15 ? (c) 15 c) 5 ion. Suddenly Yo b) inform the | NING ather of my daug ather of my daug 2) d) No n towards South. nis starting point ⁶ t d) 5 kn tion' and D mean (I.B.P.S 2002) d) 45 (PGDC 1 u notice that the ra e authority to tak | (hter's father.") ne of this Then he walks n North- East. s 'multiplicatio e) none o A 2005) d) 52 tilway track is bi e necessary act | How is the 3 km towards on', then what of this |
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| | | | GK 6 – . | ANSWE | ERS [[| Date: 05–0 | 8 - 2017 |] | |
|---------------|--------------------------|-----------------------------------|--|-------------------------------------|------------------|-----------------|----------|------|-------|
| EVERY | DAY SCI | ENCE: | | | | | | | |
| 1.D | 2. B | 3. B | 4. C | 5. D | 6. B | 7. C | 8. C | 9. B | 10. B |
| GENER | AL STUI | DIES: | | | | | | | |
| 11. B | 12.D | 13.C | 14.C | 15.B | 16.D | 17.C | 18.C | 19.D | 20.C. |
| CURRE | NT AFFA | AIRS: | | | | | | | |
| 21.C | 22.D | 23.D | 24.A | 25.C | 26.A | 27.D | 28.A | 29.C | 30.D |
| QUANT | <u>TTATIVI</u> | <u>E APTITU</u> | UDE: | | | | | | |
| 31.36=2 | $2^{2}x3^{2}x;84=$ | $=2^{2}x3x7.$ | | | | | | | |
| h.f.c= | $=2^{2}x3=12$ | • • • • | 4 1004 | | | | | | |
| 32. Give | en express | 10n = 41x4 | 4 = 1804 | 10+65 07 | 7 | | | | |
| 33. Give | n expressi | on: $=\frac{7}{4}-\frac{1}{5}$ | $\frac{1}{3} + \frac{1}{8} = \frac{70}{1}$ | $\frac{140+05}{40} = \frac{67}{40}$ | $=2\frac{7}{40}$ | | | | |
| | | 1 0 | | 10 10 | 10 | | | | |
| 34. Give | n expressi | on: $\frac{14}{7} x \frac{21}{7}$ | $x \frac{120}{15} = 2x^3$ | 3x8 = 48 | | | | | |
| 35. Arith | metic me | $an = rs(\frac{113}{113})$ | $15 \\ 32 + 1140 + 1144$ | +1136+1148 |) | | | | |
| | •Ds 5700/ | 5-De 11/0 | 5 | |) | | | | |
| - 36 Total | monev n | 3–K8.1140 aid for 115 | books = rs | (1050 ± 102) | 0) =rs207(|) | | | |
| 50. 10tu | | ico noid no | b = 15 | (1050+102) | 0) -152070 | | | | |
| F | werage pr | ice paid pe | $r \operatorname{dook} = rs$ | (115) = rs I | 0 | | | | |
| 37. A's A | Age = (44) | $x \frac{6}{11}$) years | = 24 years | and B's age | e = (44-24) |) Years $= 20y$ | /ears | | |
| 38. c.p = | = rs 12000 | s.p = rs 1 | 5000. | | | | | | |
| p | rofit = rs (| (15000-120 |)00) = rs 30 | 00. | | | | | |
| pro | ofit % = $(\frac{1}{1})$ | $\frac{3000}{2000}$ x100 |) % = 25% | | | | | | |
| 39. $p = r$ | s 3600. r = | = 15%. t = 4 | 4vears. | | | | | | |
| S | $i = rs(\frac{3600}{1})$ | $\frac{x^{15x^{14}}}{20} = r$ | s 2160 | | | | | | |
| 40. The 1 | pattern is 2 | 23, 33, 43. | 53, 63, 73. | | | | | | |
| But, | 100 is not | a perfect c | ube. | | | | | | |
| TEST O | F REAS | DNING: | | | | | | | |

- 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

$$AD = \sqrt{AC^2 + CD^2} = \sqrt{4^2 + 3^2} = 5$$

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 ..., 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 09.09.2017 **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) Megakarvocytes 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 _plant a) *Santalum* b) *Gossypian* The first artificial seed prepared with _____ c) Mangifera d) Daucus 6. Which of the following disease spreads through air? a) TB b) Plague c) Cholera d) Typhoid 7. Photochemical smog is caused primarily by a) CO d) NO_2 b) CO_2 c) O_3 8. The working principle of Washing machine is b) Centrifugation c) Centripetal force d)Diffusion a) Surface tension 9. 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 10. The first Indian Satellite for serving the educational sector is known as b) INSAT - B a) SATEDU 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? 1. 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. 3. 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** was appointed as new chief justice of India a) Dipak Misra b) Mahadevan c) Karnan d) Hari Paranthaman 21. 22. New – Vice Chairman of NITI Ayog is a) Rajiv Misra b) Rajiv Kumar c) Sanjay Kumar d) Sowmya Swaminathan was declared as India's first world Heritage City by UNESCO. 23. b) Trivandrum c) Ahmedabad d) Hyedrabad a) Chennai 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. is the first full time women defence minister in India c) Kiran bedi a) Indira Gandhi b) Nirmala sitharaman d) Mamta Banarjee 26. is the recipient of Arjuna award from Tamil Nadu in 2017 for winning gold medal in Rio Para Olympics. b) Sunita c) P.V. Sindu a) Ashwin Balajee d) Mariappan is the recipient of Arjuna award 2017 (women) in archery 27. a) V.J. Sureka b) Saina Newal c) P.V. Sindu d) Sania Mirza 28. Where was the 9th BRICKS summit held? a) Argentina b) China c) Brazil d) South Africa 29. was appointed as new electional commissioner of India b) Gopala Krishnan c) Nazim Zaidi a) Rajesh Lakhoni d) Sunil Arora 30. was appointed as new advocate general of Tamil Nadu b) Vijay Narayan a) Navaneeta Krishnan c) Vijay Menon d) Vijay Gopalan

QUANTITATIVE APTITUDE



ANSWERS (GK 7)

| EVERYDAY SCIEN | <u>CE:</u> | 1.A | 2.C | 3.B | 4.B | 5.D | 6.A | 7.D | 8.B | 9. B | 10.C |
|--|----------------------------|-----------------------------|---|-------------------------|------------------|--------------------|---------------|------------|--------------|--------------|-----------------|
| GENERAL STU | <u>DIES:</u> | 11.C | 12.D | 13.B | 14.B | 15.D | 16.D | 17.A | 18.A | 19.D | 20.C |
| OLIANTITATIVE A | <u>5:</u> 1011 PTITI | 21.A | 22.B 32 D | 23.C | 24.В 34 | 25.B 35 B | 26.D | 27.A 37 | 28.B 38 D | 29.D 39 D | 30.B 40 C |
| 31. Given expres | sion = | <u>-</u> . 51.0 (12.1212 | + 17.00 | 05) - 9 | 9.1102 | = (29. | 1217 - | 9.1102 |) = 20. | 0115. | 40.0 |
| 32. Converting e | ach of t | he given t | fractions | into d | ecimal | form, v | ve get | : | | | |
| 5/9 = .55, 7 | 7/11 = (47 > 0 |).63, 62 > 0 55 | 8/15 = | = 0.533 | 3, 11/2 | 17 = 0. | 647 > 5/0> | 0/15 | | | |
| $33.36 = 2^{2*}3^2$: | +/ > 0.0 84 = | : 2 ² *3 *7 | > 0.55. | 5. 50, 1 | 11/1/ / | > //11 | > 5/92 | • 0/15. | | | |
| H.C.F = $2^2 *$ | 3 = 12 | 2 0 / | | | | | | | | | |
| 34. | | 26 4 | 0 | | | | | | | | |
| 2 | 24 | -36 -4 | 0 | _ | | | | | | | |
| 2 | 6 | -9 -1 | .0 | _ | | | | | | | |
| 3 | 3 | -9 - | 5 | _ | | | | | | | |
| | 1 | -3 -5 | 5 | | | | | | | | |
| 35. | | 232 | | | | | | | | | |
| | 2 | 53824 | _ | | | | | | | | |
| | 43 | 4 138 | _ | | | | | | | | |
| | 75 | 129 | | | | | | | | | |
| | 462 | 924 | _ | | | | | | | | |
| | | 924 | _ | | | | | | | | |
| | - | 0 | _ | | | | | | | | |
| 36. $\sqrt{10} + \sqrt{25} +$ | $\sqrt{108} +$ | $\sqrt{154} + \sqrt{154}$ | $\frac{1}{15} = v$ | $\sqrt{10} + \sqrt{10}$ | $25 + \sqrt{25}$ | $108 + \sqrt{108}$ | /169 | | | | |
| $\sqrt{10}$ + $\sqrt{25}$ + | $\sqrt{108} +$ | $13 = \sqrt{3}$ | $10 + \sqrt{25}$ | $+\sqrt{122}$ | Ī | | | | | | |
| $\sqrt{1}$ | $\overline{0} + \sqrt{25}$ | $+\sqrt{11} =$ | $= \sqrt{10} + \frac{1}{22}$ | $\sqrt{36}$ = | $\sqrt{10}$ | +6 = | $\sqrt{16}$ = | 4 | | | |
| 3/. (2+3+5+7) 38. 5: 4 = 5/4 | + 11 + 1 = $(5/4*)$ | (100)% = | (+23/9) | = 100/ | 9 = 1. | 1 1/9 | | | | | |
| 39. 3.5 = 35/10 | 0 = (35) | /10*100) | % = 35 | 0% | | | | | | | |
| 40. Given expre | ssion = | = (860/10 | 0*50 + | 50/100 | * 860 |) = 43 | 0+430 | = 860 | | | |
| TEST OF REASO | NING: | | | | | | | | | | |
| 41. Ans. (a) | <u></u> | | | | | | | | | | |
| Sol. The new | / letter s | sequence | is IBUTE | DISTR | | | | | | | |
| 42 Ans (d) | er from | the left is | i E | | | | | | | | |
| Sol. We have | : E < A | < B, A < | D <b.< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></b.<> | | | | | | | | |
| Since C is the | tallest, | , so we ha | ave $E < A$ | 4 < D < | < B < (| C | | | | | |
| Clearly, D lies | s in the | midale | | | | | | | | | |
| Sol. The give | en name | es may be | arrange | ed in th | e alpha | abetical | order | | | | |
| So, the answ | er is (d) | Mohinde | r | | | | | | | | |
| 44. Ans. (a) Sol Parents i | ndulain | a in sav d | otormin | ation of | thoir | unhorn | child a | onorally | , do so | as thou | want to keen |
| only a boy child | and do a | away with | a girl cl | hild. So | , argu | ment I | holds. | Also pec | ple hav | /e a rig | ht to know only |
| about the health | , develo | pment an | d genera | al well- | being | of the c | hild be | fore its | birth, a | nd not | the sex. So, |
| argument II does | s not ho | old strong. | | | | | | | | | |
| All except Ja | guar ar | e different | t species | s of Moi | nkeys | or apes | , while | Jaguar | belongs | s to cat | family |
| 46. Ans (b); Sol | | | | _ | | | | - | 2 | | , |
| The moveme | nts of S aav's die | anjeev fro | om A to I m startii | Farea: | s show + | n in Fig | jure | | | | |
| = AF = (AB + | - BF) | stance no | | | ιA | | | | | | |
| = AB + (BE - | · EF) = / | AB + (CD | – EF) | | _ | . . | | | | | |
| = [10 + (2) + (20 + (20 + (20 + (20 + (20 + (2) + (20 + (2) + (20 + (2) + (20 + (2) + (20 + (2) + (20 + (2) + (2) + (2) + (20 + (2) + (2 | - 10)] n . the So | netres = (utb_of A | (10 + 10) |)) metr | es = 2 | 0 metre | es | | | | |
| So, Sanjeev i | s 20 me | etres to th | e South | of his : | startin | g point. | | | | | |
| 47. Ans. (d); So | d. | | | | | | | | | | |
| As you know, | a numl | ber which | comes a | after a | given r | number | is said | to follo | w it wh | ile the o | one which comes |
| Thus the num | ber sati | sfying the | given c | onditio | ns may | / be ma | arked a | s follows | 5 | | |
| 3595455 | 3584 | 56735 | 7554 | 5235 | 10 | | | | | | |
| 48. Ans. (d); So | il. | 6 ~ 8 + ' | 3 - 51 | | | | | | | | |
| In the secon | d colum | $10, 15 \times 4$ | + 5 65 | | | | | | | | |
| In the third o | column, | missing r | number | = 20 × | 5 +20 | = 120 | | | | | |
| 49. Ans. (d) | I | | | | | | | | | | |
| Letter T | E | R | М | I | | N | А | Т | I | 0 | |
| Code 1 | 2 | 3 | 4 | 5 | | 6 | 7 | 1 | 5 | 8 | |
| | | | | | | | | | | | |

VIVEKANANDA COLLEGE, TIRUVEDAKAM WEST-625234 GENERAL KNOWLEDGE

16.09.2017

8

EVERYDAY SCIENCE

| EVE | RYDAY SCIENCE | |
|--|---------------------------|---|
| 1. Which animal never drinks water in its entire l | ife? | |
| 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 ostric | h d. Muscular cell |
| 3. Normal blood sugar level in numan beings is | 120mm m / 100mm l. of k | |
| a. $80 - 120$ mg/100 ml of blood b. 70 | - 120mg/100ml of t | |
| C. 90 = 120 mg/100 m of blood $C. 80$ | | Noon a Yanan d Hydragan |
| 4. Which allong the following is not a hobie gas: | a. Hellulli D. | Neon C. Xenon u. Hydrogen |
| J. Rusuing is reduction. | c Poduction | d Polymorization |
| 6 What is an isotono? | | |
| a Atoms with different mass number | h 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. Bioloav | d. Geoloay |
| 8. Atomic number is represented by | tter. | ar ecology |
| a. A b. M c. X | d. Z | |
| 9. Which one of the following is not an allotrope of | of carbon? | |
| a. Diamond b. Graphite | c. Fullerenes | d. Glass |
| 10. Mole can be defined as number of atoms fou | nd in o | f carbon 12? |
| a. 11 grams b. 14 grams | c. 10 grams | d. 12 grams |
| 5 | 5 | 5 |
| GEN | IERAL STUDIES | |
| 11. Which country will become the world's larges | t milk producer by2 | 026. 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 Hom | e (C) SBI Rea | al State (D) SBI Home |
| 13. Which new pension scheme has been launche | ed by the Union Gov | ernment for Senior Citizen? |
| (A) Pradhan Mantri Vaya Vandana Yojana (Pl | MVVY) (B)Pradha | n Mantri Vaya varun yojana (PMVVY) |
| (C) Pradhan Mantri Vaya vradh yojana (PM | VVY) (D)Pradhai | n Mantri Vaya vaman yojana (PMVVY) |
| 14. Which Mobile app has launched by the Union | Government for roa | d maintenance? |
| (A) Road BHIM (B) Kartavya | (C) Aaramb | h (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 of | Gap Index" ranking | to the countries of the world? |
| (A) World Economic Forum (B) UN Human Rigl | nts Council (C) UN v | women (D) World Health Organization |
| 17. Who among the following can join the Nation | al Pension System (| NPS)? |
| (A) Resident Indian Citizens Univ (B) R | Person of age from 2 | 1 to 55 only. |
| (C) All State Government employees joining | the service after the | a date of notification by the respective |
| State Governments (D) All Central | Government employ | vees including those for armed forces |
| 18 What is/are the advantage/advantages of im | 04 nlementing the "Nat | ional Agricultural Market" scheme? |
| I It is a nan India electronic trading portal f | for agricultural comp | nodities II It provides the |
| farmer with access to nationwide market wi | th prices commensu | rate with the quality of the produce |
| Select the correct answer using the code give | en below: | face with the quality of the produce. |
| (A) 1 only (B) 2 only (C) Both 1 | & 2 (D) Ne | ither 1 or 2 |
| 19. Which of the following is a most likely consequence | e of implementing the | "Unified Payments Interface (UPI)"? |
| (A) Mobile wallets will not be necessary for o | nline payments (B) | Digital currency in about two decades |
| (C) FDI inflows will drastically increase (D) Dire | ct transfer of subsidies | s to poor people will become very effective |
| 20. What is / are the most likely advantages of in | mplementing "Goods | and Service Tax (GST)"? |
| It will replace multiple taxes collected by mult | iple authorities and wi | ll thus create a single market in India. |
| 2. It will drastically reduce the "Current Account I | Deficit" of India and wi | Il enable it to increase its foreign |
| exchange reserves. 3. It will enorr | nously increase the gr | owth and size of economy of India and will |
| enable it to overtake China in the near future. | | |
| Select the correct answer using the code g | iven below: | |
| (A) I UNIY (B) 2 & 3 ONIY (C) | iasoniy (L | י) ב, 2, 8, 3 |
| ~ | | |
| | | |
| 21. The traditional Bonderam festival has started | in which state? | |
| [A] GOa [B] Karnataka | | |
| 22. The Punjad National Bank (PNB) has signed a | n agreement with w | nich telecom company to roll out open |
| mobile wallet Speed pay? [A] Vodatone Ind | | Uj Reliance Jio [D] Idea Cellular |
| 25. Konjum Taba, who has clinched gold at the 20 | J1/ Commonwealth | weightlifting Championships, is |

- associated with which weight category? [A] 82 kg [B] 65 kg [C] 57 kg [D] 94 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 a | as new interim Chairman of G | oods and Services Tax Ne | etwork (GSTN)? |
|----------|--------------------------|------------------------------|--------------------------|-------------------|
| | [A] Manisha Singh | [B] Ajay Bhushan Pandey | [C] Inder Jit Singh | [D] Hasmukh Adhia |
| $\sim -$ | 14/I · I T I · · · · I | | | 2010 T |

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? c) 15 a) 8 b) 14 d) 17 a) 4 34. How children play badminton as well as cricket? b) 6 c) 9 d) 10 35. Total how many children are there in the class? c) 35 d) 36 a) 31 b) 33 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>Cc) M>D>C>Ld) 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. b) 20 c) 24 (UPSSSC -2016) a) 18 d)22 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) b) 720 c) 750 d) 780 a) 700 39. The product of 0.09 and 0.007 is _ (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 B. 63 D. 73 A. 53 C. 83 43. Which one is the same as Mumbai, Kolkata and Cochin? B. Kanpur D. Sholapur A. Delhi C. Chennai 44. 7: 56: : 5 : ? C. 30 D. 35 A. 25 B. 26 45. Find the smallest number which when divided by 25, 40 or 56 has in each case 13 as remainder. C. 1439 A. 1413 B. 1400 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? C. A A. C B. B D. E 47. Find the odd one out: A. Owl B. Eagle C. Hawk D. Parrot 48. OTE, PUF, QVG, RWH, ? B. TCI C. SXJ A. SYJ D. SXI 49. B-1, D-2, F-4, H-8, J-16, B. L-32 C. M-32 A. K-64 D. L-64 50. Arrange the colours of the rainbow (in the reverse order) (from the top edge): 1. Blue; 2. Indigo; 4. Green; 5. Violet 3. Yellow; A. 3, 4, 1, 2, 5 B. 4, 3, 1, 5, 2 C. 5, 3, 4, 2, 1 D. 2, 4, 3, 1, 5

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; So, 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 2a=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. L C 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
$$\begin{bmatrix} x & 2 & x & 2 & x & 2 \\ B-1, & D-2, & F-4, & H-8, & J-16, & L-32 \\ +2 & +2 & +2 & +2 \\ \end{bmatrix}$$

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

VIVEKANANDA COLLEGE, TIRUVEDAKAM WEST-625234 GENERAL KNOWLEDGE

| | EVERYDAY SCIENCE | | | | | |
|-------------|---|--|--|--|--|--|
| 1. | 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 \mathcal{P} (b) N \mathcal{C} \mathcal{P} (c) N \mathcal{K} | | | | | |
| 3. | Addison's disease is caused by the excessive secretion of: | 5, P | | | | |
| | (a) Antidiuretic Hormone (b) Luteinising Hormone (c) Melanophore stimulating Hormone (d) Adrenocorticotrophic Ho | ormone | | | | |
| 4. | A light year is a unit of: | | | | | |
| 5. | (a) Time (b) Energy (c) Length (d) Mass Which of the following layers make radio transmission possible? | | | | | |
| 6 | (a) Troposphere (b) Ionosphere (c) Mesosphere | (d) Stratosphere | | | | |
| - - | (a) Carbon dioxide (b) Sugar (c) Bacteria | (d) Oxygen | | | | |
| /. | (a) Photoelectric effect (b) Stark effect (c) Thermionic effect | (d) Piezo-electric effect | | | | |
| 8. | (a) seedless fruits (b) parthenogenesis fruits (c) parthenocarpic | c 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) Th GENERAL STUDIES | ne | | | | |
| 11. | What is the purpose of setting up of Small Finance Banks (SFBs) in India | ? | | | | |
| | 1. To supply credit to small business units 2. To supply credit to su | mall and marginal farmers | | | | |
| | 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. | the Indian society together and inspire patriotic feelings among the peop | and Shivaji Festivals to bring le? | | | | |
| 10 | a) BalGangadharTilak b) Gopal Krishna Gokhale c) JoyotiraoGovindraoPhule | d) Mahadev Govind Ranade | | | | |
| 15. | 1. Repo rate 2. Bank rate 3. Reverse repo rate | | | | | |
| 11 | a) 1 and 2 only b) 2 only c) 1 only d) 3 or Consider the following statements regarding BharativaMabila Bank (BMB) | ıly | | | | |
| 14. | 1. It is the only public bank in the country fully owned by the governmen | t | | | | |
| | 2. It works exclusively for women. | c) Both 1 and 2 d) Noithor 1 nor | | | | |
| 15. | Consider the following list of statements: | | | | | |
| | 1. The 'Nightingale of Inida (MS Subbulakshmi) was borne here. | acti and chawl was here | | | | |
| | 2.Gandniji'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 Silanpadikaram, destroys this entire | city | | | | |
| | The above statements refer to which city from among the following? | city. | | | | |
| 16 | a)Kanchipuram b) Kaveripattinam c) Madurai Which of the following pairs is/are correctly matched? | d) Karur | | | | |
| 10. | 1.Brihadeeswara Temple – Tanjore 2.DraupadiRath – Madurai | | | | | |
| | 3. Kailasa temple – Ellora a) 1 and 2 b) 1 and 3 c) 3 and 4 d) 1 2 | ram Land 3 | | | | |
| 17. | What is BHIM | | | | | |
| | a) It is a medium range sub-sonic missile b) It is a software de c) It is an mobile app developed for bill payments d) None of the above | veloped for NISAR | | | | |
| 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 debent bond is always secured. On liquidation of the company, the debenture he | ture is always unsecured, a olders are paid prior to bond | | | | |
| | holder. Which of the above mentioned statements is/are correct? | | | | | |
| 20. | a) 1 only b) 2 only c) Both 1 and 2 d) neither 1 nor 2 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 Minis CURRENT AFFAIRS | ster Office | | | | |
| 21. | Who has won the Korean super series badminton in 2017? | | | | | |
| 22 | a. Carolina Marin b. P.V.Sindhu c. Saina Neival d. Ran On Cassini Satellite has stopped its service | jani | | | | |
| <u>~</u> ~. | a.15 th Sep 2017 b. 21th Sept 2017 c. 15 th Aug 2017 | d. 20 th May 2017 | | | | |
| 23. | M.S.Dhoni has achieved 100 th fifties against a. Australia b. Srilanka C. England d. Wes | st Indies | | | | |
| 24. | Who is the Defense Minister of India? | | | | | |
| 25 | a. Pon.Radhakrishnan b. Nirmala Seetharaman c. Arun Jetley Which state has become the first Indian state to approve e-vehicle policy | y d. Sushma Swaraj ? | | | | |
| _01 | a. Kerala b. Andhra Pradesh c. Karnataka d. Odl | nisha | | | | |





VIVEKANANDA COLLEGE, TIRUVEDAKAM WEST-625234 GENERAL KNOWLEDGE

07.10.2017

10

V

| | 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) Ileu | lm |
| 3. | Which one among the following gland is an endocrine gland? | |
| | a) Adrenal b) Liver c) Pancreas d) Salivary gl | and |
| 4. | During the process of respiration in human beings, the exchange of gases takes p | place in |
| - | a) Bronchi b) Alveoli c) Bronchiole d) Pleura | |
| 5. | Pituitary giand is situated in | abdomon |
| 6 | a) The base of the field (b) The base of the brain (c) The field (c) The | abuomen |
| 0. | a) 46 b) 47 c) 48 d) 49 | |
| 7 | The acid which is secreted by the glands in the stomach wall is | |
| <i>,</i> . | a) sulphuric acid b) hydrochloric acid c)nitric acid d) pho | osphoric acid |
| 8. | The number of bones in the human body system is | |
| | a) 306 b) 206 c) 260 d) 370 | |
| 9. | Which of the following is known as the voice box? | |
| | a) Trachea b)pharynx c) epiglottis d) larynx | |
| 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 Min | nistry? |
| 1 2 | a) Rita Teaotia committee b) Etele Rajender committee c) Hasmukh Adhia committee | d) Sushil Modi committee |
| 12. | . Which state Government has launched shaneed Gram vikas Yojana to provide houses to | freedom fighters? |
| 12 | d) Mailard Sillid D) Ullar Prauesii C) Rajasilari U) Jil | di Kildilu n ita digital platform? |
| 15. | a) FINO payments bank b) Airtel payments bank c) Paytm payments bank d) In | dia 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 in | nitiate world peace |
| 15. | . Which Bollywood personality has been appointed as the brand ambassador of Ut | tarkhand Swachh Bharat |
| | Mission (SBM)? a) Amitabh Bachchan b) Priyanka Chopra c) Deepika paduk | one d) Akshay Kumar |
| 16. | . Which state government has launched a mobile app 'People First' for citizens? | |
| 17 | a) Udisha b) Assam c) Andhra Pradesh d) Uttar Prad | esn |
| 17. | . Which Union Minister has idunched Sanaj Dijii har Ghar Yojaha SAUDHAGYA ((| d) Narondra Modi |
| 18 | Which country hosted the 7th ASEM Economic Ministers Meeting (ASEM EMM7)? | |
| 10. | a) Japan b) South Korea c) China d) Net | herlands |
| 19. | What is the theme of 2017 World Rabies Day (WRD) ? | |
| _ | a) Rabies: 100% Vaccine preventable b) Rabies- Educate, Vaccinate, Elimi | inate |
| | 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) Ma | dhya 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? | |
| าว | 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? | d) Sigmar Cabriel |
| 24 | d) Angeld Merker D) Martin Schulz C) Loundr de Malziere When did Narondra Medi, the Prime Minister of India Jaunch newer for all schem | u) Sigmar Gabriel |
| 24. | 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) 2010312017 |
| _0. | a) Ronaldo, Messi and Nevmer b) Wavne Rooney, Mwsut Ozil, | Alex Ferguson |
| | c) Paul Pogba, Ronaldinho, Zlatan Ibrahimovic d) Sunil Chhetri, Bharchung Bh | utia, Jeje Lalpekhlua |
| 26. | Which state cabinet approves Religious Freedom Bill 2017 on 1 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? | |
| 20 | a) Devendra Jhajharia b) Sardar Singh d) only A | a) Both A and B |
| 29. | . who look oath as new comptroller and Auditor General (CAG) of India? | d) Shri Dajiy Mahrichi |
| ۲U | a) Shiri Nareshi iyer b) Shiri Kajeshi Shafina (C) Shiri Vijay Shastri Which airways launches "Fly Now Pay Later" scheme recently? | uj Shili Kajiv Menrishi |
| 50. | a) Singanore Airlines b) Kenya Airways c) Ftihad Airways | d) Emirates |
| | ay on gapore Annuos by Kenya An ways C) Eunau An ways | a) Enniates |

QUANTITATIVE APTITUDE

- 31. The monthly incomes of five persons are Rs.1132, Rs.1140, Rs.1144, Rs.1136, Rs.1148 respectively. What is their arithmetic mean? b)1120 a) 1100 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 a) a=b=c b)a:b:c = 3:2:4 c) 4a=5b=c 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? d)30 a) 5 c)20 b)10
- 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 c)15 d)17
- observations is b)13 a) 11 36. The mean of 1^2 , 2^2 , 3^2 , 4^2 , 5^2 , 6^2 , 7^2 is a) 10
- b)20 c)30 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? a) 15 b)30 c)9 d)42
- 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 b)37/2 d) none of these c)3
- 40. The average of X1,X2 and X3 is 14. Twice the sum of X2 and X3 is 30. what is the value of X1? 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? D. 30 C. 29
 - A. 27 B. 28





rank

ANSWERS (GK 10) 1.C 3.A 4.B **EVERYDAY SCIENCE:** 2.A 5.B 6.A 7.B 8.B 9.D 10.B 13.B 14.A 16.C 17.D **GENERAL STUDIES:** 11.C 12.D 15.D 18.B 19.D 20.C 25.A CURRENT AFFAIRS: 21.B 22.D 23.A 24.C 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 a:b:c = 3:2:4 c=(5+4+3)/3 = 4, 33. (2+7+6+x)/4=5 15+x = 20X=5 (18+1+6+x+y)/5 = 1025+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 = (27x3)=81 years Son's Age = 81-70 = 11 years 35. (X+(X+2) +(X+4) +(X+6) +(X+8))/5=11 5X+20=55, X=7 Required mean = (11+13+15)/3=39/3=13 The numbers are 7,9,11,13,15 36. n=7, Sum of square of n natural numbers = n(n+1)(2n+1)/6 (7x8x15)/6=140 140/7 = 2037. Let the second number be x. then, first number =2x, third number =4x2x+x+4x=56x37x=168 X=24 Required difference = 4x-2x = 2x2x=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 11x3=33 Average of c,d and e =17 so,17x3=51 Average of e & f = 22 so,22x2=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, Average = 94/6 40. X1+X2+X3 = 14 X 3 = 42 2(X2 + X3) = 30X2+X3=15 X1=42-15 =27 41.B 42.B 43.B 44.D 45.D 46.C 47.A 48.A 49.A 50.C TEST OF REASONING: Dropped numbers are: 4,8,12,14,16,20,24,28,32,34,36,40. 41. B) 42.B) First column X 3 + 1, Second column X 3 + 2, Third column X3 + 3 43. B) +1 each : $A \rightarrow B \rightarrow C \rightarrow D$ +3 each : $F \rightarrow I \rightarrow L \rightarrow O$ +5 each : $K \rightarrow P \rightarrow U \rightarrow Z$ +7 each : $P \rightarrow W \rightarrow D \rightarrow K$ 44. D) 90 = 7X3X5 - (7+3+5)13 = 1X6X4 - (1+6+4)80 = 2X6X8 - (2+6+8)45. D) 12th 46.C) 47. A) $6^3 - 5^3 = 91$, $8^3 - 7^3 = 169$, $10^3 - 7^3 = 657$ $11^{3} - 10^{3} = 331$ 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)