

GENERAL AWARENESS

1. A new coin called 'Rupiya' was issued for the first time by:

[1] Sher Shah Suri	[2] Akbar
[3] Ala ud din Khilji	[4] Mohammed Shah Tughlaq
2. Monsoon is caused by:

[1] Impact of summer temperatures on the seas	[2] Movement of clouds
[3] Seasonal reversal of winds	[4] Rise in temperature
3. In the world of sports, the sobriquet 'Indo-Pak Express' is applied to:

[1] Shree Santh and Shoaib Akhtar	[2] Rohan Bopanna and Aisam-Ul-Haq Quareshi
[3] Sonia Mirza and Shahar Peer	[4] Rohan Bopanna and Shahar Peer
4. The world's busiest port today:

[1] Port of Rotterdam	[2] Port of Shanghai
[3] Port of Singapore	[4] Port of Dubai
5. Which Company owns 'Sugar Free', the leading brand of artificial sweetener in India?

[1] Cipla	[2] Cadila	[3] Glaxo	[4] Monsanto
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6. Nand Lal Bose, Manjit Bawa, Tyeb Mehta are:

[1] Classical Singers	[2] English Poets	[3] Photographers	[4] Painters
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7. What is Phishing?

[1] A Government plan	[2] A stem cell
[3] Fraudulent way of acquiring PIN and bank passwords using email	[4] None of these
8. The Indian company that manufactures automobiles for Mitsubishi is:

[1] Tata Motors	[2] Bajaj Tempo
[3] Mahindra	[4] Hindustan Motors
9. Which of these is not a film directed by Mira Nair?

[1] Earth	[2] Monsoon Wedding
[3] Kamasutra	[4] Salaam Bombay
10. The major US Toy manufacturer that recently suffered a breakdown in supply chain from China on account of legally unacceptable toxic substances in its products is:

[1] Leo Toys	[2] Mattel Toys
[3] Universal Toys	[4] Funskool Toys
11. Some of the large deals entered into by IT majors in India are listed here as options. They are all billion dollar deals except one. Which one?

[1] TCS-Nielson	[2] Tech Mahindra-BT
[3] Infosys-ABN AMRO	[4] IBM-Bharti
12. A suicide car bomb caused havoc in England in July 2007 at the following airport:

[1] Glasgow	[2] Heathrow	[3] Birmingham	[4] Nottingham
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13. Pakistan signed Free Trade Agreement (FTA) and a five-year investment package with:

[1] USA	[2] European Union	[3] China	[4] Russia
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14. Major oil finds are recently reported in:
[1] Krishna Godavari Basin [2] Cauvery Basin
[3] Rajasthan Desert [4] Lower Assam Valley
15. The propagation of radio signals is greatly influenced by:
[1] troposphere [2] ionosphere [3] exosphere [4] thermosphere
16. According to Dun & Bradstreet which one of the following is the largest employer among Indian ITES and BPO companies?
[1] Genpact [2] Accenture Services [3] Wipro BPO 2 [4] IBM Daksh
17. "In God we trust, the rest we have to bring data on the table." This statement was made by the famous industrialist:
[1] J.R.D. Tata [2] Aditya Birla
[3] Dhirubhai Ambani [4] Narayan Murthy
18. Following options are a list of forex rates for US Dollar on a day recently. Identify the entry that is reversed.
[1] 1 US \$ = Rs 39.35 [2] 1 US \$ = €1.42
[3] 1 US \$ = £0.48 [4] 1 US \$ = ¥114
19. Which of the following is not provided in the Constitution?
[1] Election Commission [2] Planning Commission
[3] Public Service Commission [4] Finance Commission
20. When did Governor General's rule end in India:
[1] 15th August 1947 [2] 9th August 1948
[3] 26th January 1950 [4] 2nd October 1950
21. The newspaper which was recently voted as the largest selling newspaper in the world is:
[1] The Los Angeles Times [2] The Times of India
[3] The London Times [4] The New York Times
22. Which of the following countries is the top source of FDI inflows into India at present?
[1] Singapore [2] USA [3] UK [4] Mauritius
23. The human cell contains:
[1] 44 chromosomes [2] 48 chromosomes
[3] 46 chromosomes [4] 23 chromosomes
24. In 2006, the three largest economies in the world were:
[1] USA, Japan and Germany [2] USA, China and Japan
[3] USA, China and Germany [4] USA, UK and France
25. The runner-up in the recent Vice-Presidential election was:
[1] Mr Bhairon Singh Shekhawat [2] Dr Najma Heptullah
[3] Mr Praful Patel [4] Mr Hameed Ansari
26. Egg is a rich source of nutrients except:
[1] Vitamin C [2] Protein [3] Vitamin D [4] None of the above
27. In banking terminology, CRR means:
[1] Credit Reserve Ratio [2] Cash Reserve Ratio
[3] Credit Rating Ratio [4] Cash Rating Ratio

28. "Bollywood" name has been granted as a trademark to which US-based Media and Entertainment company by Indian Trademark Registry?
[1] Viacom [2] Universal Studios
[3] Disney Enterprises [4] Miramax
29. Lakshmi Mittal, the famous NRI industrialist, is partnering with Government of India for the following big project:
[1] Oil Refinery [2] Atomic Power Plant
[3] Biotechnology [4] Mining
30. Which of the following allows one to start and continue to share regularly any of his/her own personal experience, knowledge, opinion or thought with the internet community?
[1] Portal [2] Email [3] Blog [4] Chat
31. Zapak Digital Entertainment is an on line gaming venture promoted by:
[1] UTV [2] Balaji Telefilm
[3] Zee TV [4] Anil Dhirubhai Ambani Enterprises
32. In August 2007, Chennai High Court passed a landmark judgment that may have far reaching consequences on pharmaceuticals industry, dismissing a writ petition filed by:
[1] Ranbaxy [2] Sandoz [3] Novartis [4] Glaxo
33. Koneru Humpy plays:
[1] Badminton [2] Cricket [3] Chess [4] Weight Lifting
34. In recent months the monks of Myanmar marched the streets of Yangon in hundreds:
[1] To spread the message of peace [2] To celebrate Buddha purnima
[3] To protest against the ruling government [4] To take the normal route for alms
35. To recover the national loss suffered by small investors in the IPO allotment scam from the National Securities Depository Services Ltd & Central Depository Services Ltd and eight depository participants, a second interim order was passed by:
[1] SEBI [2] RBI [3] AFMI [4] Supreme Court
36. Indian Broadcasting Service was renamed in 1936 as:
[1] Akashwani [2] Nabhowani
[3] Doorwani [4] All India Radio
37. Which of the following is not a principal organ of the UN?
[1] General Assembly [2] Trusteeship Council
[3] Security Council [4] World Health Organisation
38. Who was the composer of the classical composition 'Moonlight Sonata'?
[1] Ludwig Van Beethoven [2] Joseph Haydn
[3] Johann Bach [4] Handel
39. During the year 2006-07 Indian Railways earned a profit of approximately:
[1] Rs 20,000 crores [2] Rs 14,000 crores
[3] Rs 18,000 crores [4] Rs 16,500 crores
40. Starbucks, the coffee chain retailer's name is inspired from which book:
[1] The Scarlet Letter [2] Mobydick
[3] Uncle Tom's Cabin [4] None of the above

GENERAL ENGLISH

Directions (Qs. 41 to 46): Read the following passage and answer within its context.

The world dismisses curiosity by calling it idle, or mere idle curiosity—even though curious persons are seldom idle. Parents do their best to extinguish curiosity in their children because it makes life difficult to be faced every day with a string of unanswerable questions about what makes fire hot or why grass grows. Children whose curiosity survives parental discipline are invited to join our university. Within the university, they go on asking their questions and trying to find the answers. In the eyes of a scholar, that is mainly what a university is for. Some of the questions that scholars ask seem to the world to be scarcely worth asking let alone answering. They ask questions too minute and specialised for you and me to understand without years of explanation. If the world inquires of one of them why he wants to know the answer to a particular question he may say, especially if he is a scientist, that the answer will in some obscure way make possible a new machine or weapon or gadget. He talks that way because he knows that the world understands and respects utility. But to you who are now part of the university, he will say that he wants to know the answer simply because he does not know it. The way a mountain climber wants to climb a mountain simply because it is there. Similarly a historian when asked by outsiders why he studies history may come out with argument that he has learnt to repeat on such occasions, something about knowledge of the past making it possible to understand the present and mould the future. But if you really want to know why a historian studies the past, the answer is much simpler: something happened, and he would like to know what. All this does not mean that the answers which scholars find to their questions have no consequences. They may have enormous consequences but these seldom form the reason for asking the question or pursuing the answers. It is true that scholars can be put to work answering questions for the sake of the consequences as thousands are working now, for example, in search of a cure for cancer. But this is not the primary function of the scholar, for the consequences are usually subordinate to the satisfaction of curiosity.

41. Common people consider some of the questions asked by scholars as unimportant:
[1] since they are not worth asking or answering.
[2] because the question is related to new machines and gadgets.
[3] because the common man doesn't understand questions without years of explanations.
[4] scholars ask very minute, specialised questions beyond the comprehension of the common man.
42. In a statement 'that is mainly what a university is for' 'that' refers to:
[1] parents refusal to answer questions.
[2] children's curiosity that survives parental strictures.
[3] questions not worth answering.
[4] the aim and scope of the university to provide an opportunity to curious minds to find out the answers to their questions.
43. According to the passage the general public respects:
[1] new inventions.
[2] are useful invention.
[3] any invention that makes life easier for them.
[4] a scientist who invents gadgets and machines for them.
44. The writer compares the scientist to:
[1] a historian and mountain climber. [2] a historian.
[3] a mountain climber. [4] a scholar.
45. The primary function of a scholar is different from the search for a cure for cancer because:
[1] the answers to the scholar's question have no consequence unlike the results of the research involving a cure for cancer.

- [2] the answer sought by the scholar is selfish unlike the consequences of cancer research which are for the common weal.
- [3] the primary function of a scholar is satisfaction of his mental curiosity, while research involving a cure for cancer demands a constant, systematic and planned pursuit by several scholars.
- [4] several scholars work for a cancer cure while a single scholar works with a selfish motive.
46. Idle curiosity means:
[1] curiosity is lazy. [2] idle people are curios.
[3] curiosity is apt. [4] casual curiosity.
47. Find the correct match of definition/meaning with usage for the word:
WOULD
definition/meaning
(1) willingness
(2) obstinacy persistence
(3) determination
(4) improbable or real condition
Usage
5. He would go for a walk even when it was raining.
6. He would do as you say.
7. He beat the ox, but it wouldn't move.
8. If you came across a snake what would you do?
[1] 1-8, 2-5, 3-6, 4-7 [2] 1-6, 2-7, 3-5, 4-8
[3] 1-5, 2-7, 3-8, 4-6 [4] 1-7, 2-5, 3-6, 4-8
48. Choose the most appropriate passive construction of the sentence:
'He is doing his job well.'
[1] His job is done well by him. [2] His job is being done well.
[3] He has been doing his job well. [4] His job is being well done.
49. There are three underlined words below, followed by their usages. Determine the sentences, in which the use of words is correct or appropriate:
Pray, Prey, Prying
A. If you pray with faith, they say, it will be answered.
B. He has fallen a prey to cheats.
C. Prying into the affairs of others is bad.
[1] A and B [2] A and C [3] A, B and C [4] B and C

Directions (Qs. 50 to 54): The following is an excerpt from a recent article by David Ewing Duncan. Read the passage and answer the questions within its context.

Eye surgeon Virendar Sangwan has perfected a procedure so cutting-edge that most who have tried it have failed. In an operating theatre in the central Indian city of Hyderabad, he surgically implants corneas grown in a petri dish from stem cells by his colleague Geeta Vemuganti in patients with damaged eyes. Together they perform about 80 corneal regeneration procedures a year, making the L.V. Prasad Eye Institute, where they work, one of the most prolific facilities in the world using stem cells to regenerate tissues of any kind.

The Sangwan-Vemuganti team uses stem cells found in the tissues of living adults, not ones derived from embryos. Teams all over the world are working with adult stem cells, trying to coax them to regrow cells in hearts, brains, livers and other organs, but progress is slow. Besides corneas, scientists have had some success regrowing skin cells and bone tissues, but those procedures remain experimental. "A number of programs around the world have tried to perfect this treatment, but they have had bad outcomes", says University of Cincinnati eye surgeon and stem cell specialist Edward Holland. "It is impressive what they

are doing at Prasad.” In addition to the Hyderabad project, only Holland’s program and a half-dozen others in the world conduct operations using corneas grown from stem cells.

The treatment uses stem cells harvested from the limbus, located where the cornea touches the white of the eye. For those with damaged corneas, these cells—called “limbic” and “conjunctiva”—are harvested from a patient’s good eye, if he has one, or from a close relative. They are placed in a petri dish and chemically tweaked to grow into the lower layer of a cornea, called epithelium. It is then transplanted into the eye of the patient where in most cases it takes hold and grows. In 56% of the cases at the Prasad Institute, patient could still see clearly after 40 months later.

Indians are well known for reverse engineering, meaning they can deduce how drugs are made in order to produce generic versions. But in this case, Sangwan and Vemuganti, a pathologist, developed the technique on their own from reading papers and running experiments in the lab. Sangwan says he had a number of patients with burned eyes who could not be helped with standard corneal transplants from cadavers, so he persuaded Vemuganti to try growing corneas in her lab. “You know how to grow cells, and I know how to do the transplant surgery”, Vemuganti recalls him saying. “Why don’t we work together?” She smiles and shakes her head. “I had no clue if this was going to work.”

Vemuganti’s major innovation was developing a platform on which to grow corneas. First she designed a circular glass tube about the size of a stack of coins. Then she overlaid the glass with tissue from a human placenta which is “a good surface to grow corneas on.” She says. After that she placed stem cells in four places around a circle, added a growth medium, and watched the corneas begin to grow. Commercial interests among stem cell companies for the procedure has been scant because of the perceived small volume of patients, says venture capitalist Antoun Nabhan of Bay Capital, who sits on the board of Cellerant, a leading stem cell company in San Carlos, Calif. But corneal stem cell treatment may have wider applications, say ophthalmologist Ivan Schwab of University of California at Davis. “These stem cells are similar to others in the body that make mucous membrane”, he says. “These techniques of growing stem cells might one day be used to treat mucous-membrane tissue in the sinuses, bladder, and other organs.”

50. According to the article Sangwan-Vemuganti team’s cutting-edge procedure of implanting cornea grown from stem cells is considered a major advancement by the experts because:
- [1] They derive stem cells from embryos.
 - [2] Their labs are customised to grow stem cells.
 - [3] They regrow cells in hearts, brains, livers with stem cells from tissues of living adults.
 - [4] They derive stem cells from tissues of living adults and grow cells in labs.
51. Sangwan-Vemuganti procedure is carried out on:
- [1] Patients requiring any corneal transplant.
 - [2] Patients with damaged corneas.
 - [3] Patients with damaged eyes of any kind.
 - [4] None of the above.
52. The world recognizes this Indian innovation because Indian scientists are normally known:
- [1] To be good at analysing and finding out a method of how an existing drug is made.
 - [2] As they are good researchers of drugs.
 - [3] As they are good at carrying out experiments to create generic drugs.
 - [4] As they are able to carry out drug trials on large samples.
53. The pathologist, Vemuganti, started growing cornea in a petri dish:
- [1] By following procedures published in research papers.
 - [2] By inventing a totally new procedure.
 - [3] By experimenting with procedures published in journals.
 - [4] By following the instructions of the transplant surgeon.

- [1] 1-8, 2-5, 3-6, 4-7
[3] 1-5, 2-8, 3-7, 4-6
- [2] 1-6, 2-5, 3-8, 4-7
[4] 1-6, 2-8, 3-5, 4-7
68. Neophyte is the opposite of:
[1] student [2] clown [3] veteran [4] professional
69. Find the **maximum** number of times that any one of the given words fits the set of sentences.
disabled flimsy crippled lame
1. Don't make _____ excuses.
2. Liberalisation may have _____ smaller manufactures.
3. Being a defaulter at the stock exchange makes him a _____ dick.
4. A _____ person may limp.
[1] in all the four sentences [2] in three sentences
[3] in two sentences [4] in only one
70. Which of the following does not make a sensible word/phrase when added to the given word?
FIRE
[1] fly [2] engine [3] stick [4] escape
71. Arrange the sentence 1,2,3,4 to form a logical sequence between sentences I and II. Choose the alternative where the four combinations make a meaningful sentence.
I. We all value having the freedom:
1. which many of us fail to honour
2. to make the choices we want in our careers
3. but with great freedom comes great responsibility
4. so most companies fall prey to the policies which become rigid.
II. and that's probably one reason we find most companies not following what they preach.
[1] 1,3,4,2 [2] 2,3,1,4 [3] 1,4,2,3 [4] 3,2,1,3

Directions (Qs. 72 to 74): Read the edited excerpt of an article by NELSON VINOD MOSES and answer the questions in this context.

A successful non-resident Indian employed in the United States returns to a backward Indian village and transforms the lives of the villagers. Sounds familiar? At 31, Ashwin Naik is pacing through the path Shah Rukh Khan traced in his offbeat Bollywood movie, Swades. Naik had just quit his cushy job in a genomics firm in the US to join MIT Sloan School of Business. With a month in hand, he headed home and travelled through the remote areas of Bagalkot district in Karnataka. The woeful social conditions he saw moved him. Naik chucked the MBA course and in six months set up Vaatsalya Healthcare, a rural healthcare delivery system.

In February 2005, Vaatsalya's first hospital opened in Hubli. Two more centres were opened in Gadag and Karwar to offer specialist services of surgeons and facilities such as physiotherapy for children suffering from cerebral palsy. "We introduced paediatric surgery for infants below six months", says Naik. "Else, patients would have to be taken to distant cities of Hubli or Bangalore." Naik plans 100 more units in five States in the next three years. Mere charity by an affluent, middle-class professional? Far from it. Vaatsalya is one among rapidly spreading 'for profit' social enterprises that serves the poor and brings in profit. Mumbai-based Ziqitza, an ambulance services company, is another. It never refuses a patient for money, and charges Rs 50 to Rs 200.

Done fleetingly in India and elsewhere till now, entrepreneurial minds with a social conscience are methodically creating such models at a greater pace. "There has been a boom in the past two years", says Varun Sahni, country director of Acumen Fund, a US-based social fund that invests in companies that target low income communities. "Currently, there are about 1,000 in India."

The timing seems perfect. There is a wide market acceptance and funding has been coming in easily. These enterprises work across a swathe of areas including healthcare, education, rural energy, agriculture, arts and crafts, banking and more. 'For profit' entrepreneurs are obsessed with social and environmental impact in addition to the financial returns. Since they are answerable to the investors, they try expanding the business rapidly. SKS Microfinance, for instance, started in 1998 and has now over 900,000 customers, 440 branches and an outstanding loan disbursement of over Rs 452 crore as of August 2007.

72. Identify the appropriate business model of the kind of enterprise described by the author.
[1] Servicing societies at no profit.
[2] Profiting from poor people.
[3] Setting up enterprises for masses of low-income groups on experimental basis.
[4] Setting up enterprises for social causes for profit and expand rapidly.
73. Which of the following companies does not illustrate the idea explained by the author?
[1] SKS Microfinance [2] Acumen Fund
[3] Ziqitza [4] Vaatsalya Healthcare
74. According to the author, which of the following options describes 'for profit' entrepreneurs most appropriately?
[1] NRI's paying back to their motherland.
[2] Those affluent, middle-class professional treating it as charity.
[3] Those who work towards getting financial returns on social business by expanding quickly.
[4] Those who have sympathetic investors for their business ideas for poor.
75. A contextual usage is provided for the word below. Pick the word that is most inappropriate.
MALINGER. The young man made it a point to malingering in spite of the assigned work load.
[1] Wander [2] Laze [3] Evade [4] Argue
76. The following is a scrambled sentence with the segments marked 1, 2, 3 and 4. Choose the alternative with the order of segments that best reconstruct the sentence.
1. For all the padre's rhetoric about the English as God's Chosen People, the padre had a whole tribe of Anglo- Indian first cousins.
2. Padre Rotton was an even more striking case.
3. by various Indian wives, all of whom were at that moment engaged in fighting on the rebel side in Avadh, where they took an active part in besieging the British Residency in Lucknow.
4. These included James Rotton who could not speak English and the twenty two Muslim sons of his convert cousin, Felix Rotton.
[1] 1, 2, 3, 4 [2] 2, 1, 4, 3 [3] 1, 4, 2, 3 [4] 2, 4, 1, 3
77. Choose the sentence in which the given word is used correctly (grammatically and semantically)
ALMOST.
[1] As I crossed the road a scooterist almost hit me.
[2] Crossing the road a scooterist hit me almost.
[3] A scooterist across the road almost hit me.
[4] A scooterist almost hit me crossing the road.
78. In the following sentence choose the erroneous segment.
We took a taxi (A) so we would be on time(B) for the meeting (C)
[1] Error in segment A [2] Error in segment B
[3] Error in segment C [4] No error
79. Find the ODD one out from the group of words which are related in some way or the other.
[1] din [2] cacophony [3] racket [4] cadence

80. Fill in the blanks with the correct alternative:
Caw is to crows as _____ is to cows.
[1] bleat [2] snort [3] low [4] bellow

QUANTITATIVE AND DATA INTERPRETATION & SUFFICIENCY

81. Two identical trains A and B running in opposite directions at same speed take 2 minutes to cross each other completely. The number of bogies of A are increased from 12 to 16. How much more time would they now require to cross each other?
[1] 40s [2] 50s [3] 60s [4] 20s
82. The average of nine numbers is M and the average of three of these is P. If the average of remaining numbers is N, then:
[1] $M = N + P$ [2] $2M = N + P$
[3] $3M = 2N + P$ [4] $3M = 2P + N$
83. A special lottery is to be held to select a student who will live in the only deluxe room in a hostel. There are 100 Year-III, 150 Year-II, and 200 Year-I students who applied. Each Year-III's name is placed in the lottery 3 times; each year-II's name, 2 times; and each Year-I's name, 1 time. What is the probability that a Year-III's name will be chosen?
[1] $\frac{1}{8}$ [2] $\frac{2}{9}$ [3] $\frac{2}{7}$ [4] $\frac{3}{8}$
84. How many arrangements can be formed out of the letters of the word EXAMINATION so that vowels always occupy odd places?
[1] 72000 [2] 86400 [3] 51600 [4] 64000
85. Area of a square natural lake is 50 sq kms. A diver wishing to cross the lake diagonally, will have to swim a distance of:
[1] 10 miles [2] 12 miles [3] 15 miles [4] None of these
86. The number 311311311311311311 is:
[1] divisible by 3 but not by 11 [2] divisible by 11 but not by 3
[3] divisible by both 3 and 11 [4] neither divisible by 3 nor by 11
87. Two persons are climbing up on two moving escalators which have 120 steps. The ratio of 1st person's speed to that of 1st escalator is 2:3 (steps). The ratio of 2nd person's speed to that of 2nd escalator is 3 : 5 (steps). Find the total number of steps they both have taken together.
[1] 85 [2] 93 [3] 80 [4] 75
88. A rainy day occurs once in every 10 days. Half of the rainy days produce rainbows. What per cent of all the days do not produce rainbow?
[1] 95% [2] 10% [3] 50% [4] 5%
89. If $n = 1 + x$, where x is the product of 4 consecutive positive integers, then which of the following is/are true?
1. n is odd;
2. n is prime
3. n is a perfect square
[1] 1 and 3 only [2] 1 and 2 only [3] 1 only [4] None of these

90. In a factory, each day the expected number of accidents is related to the number of overtime hour by a linear equation. Suppose that on one day there were 1000 overtime hours logged and 8 accidents reported and on another day there were 400 overtime hours logged and 5 accidents. What is the expected number of accidents when no overtime hours are logged?
 [1] 2 [2] 3 [3] 4 [4] 5
91. Thirty days are in September, April, June and November. Some months are of thirty one days. A month is chosen at random. Then its probability of having exactly three days less than maximum of 31 is:
 [1] $\frac{15}{16}$ [2] 1 [3] $\frac{3}{48}$ [4] none of these
92. In 4 years, the simple interest on a certain sum of money is $\frac{7}{25}$ of the principal. The annual rate of interest is:
 [1] 4% [2] 4.5% [3] 7% [4] 9%
93. Inside a triangular park, there is a flower bed forming a similar triangle. Around the flower bed runs a uniform path of such a width that the sides of the park are exactly double the corresponding sides of the flower bed. The ratio of areas of the path to the flower bed is:
 [1] 1 : 1 [2] 1 : 2 [3] 1 : 3 [4] 3 : 1
94. The intersection of two cubes cannot be:
 [1] cube [2] triangle [3] a rectangle [4] None of these
95. The table below shows the temperatures in degrees Fahrenheit in a city over one week.

Noontime Temperatures						
Mon	Tue	Wed	Thu	Fri	Sat	Sun
66	78	75	69	78	77	70

- If m represents the median temperature, f represents the temperature that occurs most often, and a represents the average (arithmetic mean) of the seven temperatures, which of the following is the correct order of m , f , and a ?
 [1] $a < m < f$ [2] $a < f < m$ [3] $m < a < f$ [4] $m < f < a$
96. In a school drill, a number of children are asked to stand in a circle. They are evenly spaced and the 6th child is diametrically opposite the 16th child. How many children are made to stand in the circle?
 [1] 16 [2] 20 [3] 22 [4] None of the above
97. A man purchased 40 fruits; Apples and oranges for Rs 17. Had he purchased as many oranges as apples and as many apples as oranges, he would have paid Rs 15. Find the cost of one pair of an apple and an orange.
 [1] 70 paise [2] 60 paise [3] 80 paise [4] 1 rupee
98. Consider the following piecewise definition of the function f .

$$f(x) = \begin{cases} 3 - x, & \text{if } x < 0 \\ x^2 + 2, & \text{if } x \geq 0 \end{cases}$$
 Evaluate $f(-3)$
 [1] 6 [2] 0 [3] 11 [4] -7

99. A man earns 6% SI on his deposits in Bank A while he earns 8% simple interest on his deposits in Bank B. If the total interest he earns is Rs.1800 in three years on an investment of Rs 9000, what is the amount invested at 6%?
 [1] 3000 [2] 6000 [3] 4000 [4] 4500
100. Bags I, II and III together have ten balls. If each bag contains at least one ball, how many balls does each bag have? Decide whether the data given in the statements are sufficient to answer the question.
 Statement (1) : Bag I contains five balls more than bag III.
 Statement (2) : Bag II contains half as many balls as bag I.
- [1] Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient to answer the question asked.
 [2] Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient to answer the question asked.
 [3] BOTH statements (1) and (2) TOGETHER are sufficient to answer the question asked, but NEITHER statement ALONE is sufficient to answer the question asked.
 [4] EACH statement ALONE is sufficient to answer the question asked.

Directions (Qs. 101 to 103): Use the table about the speed of a train over a 3-hour period. The time count does not begin from starting of train.

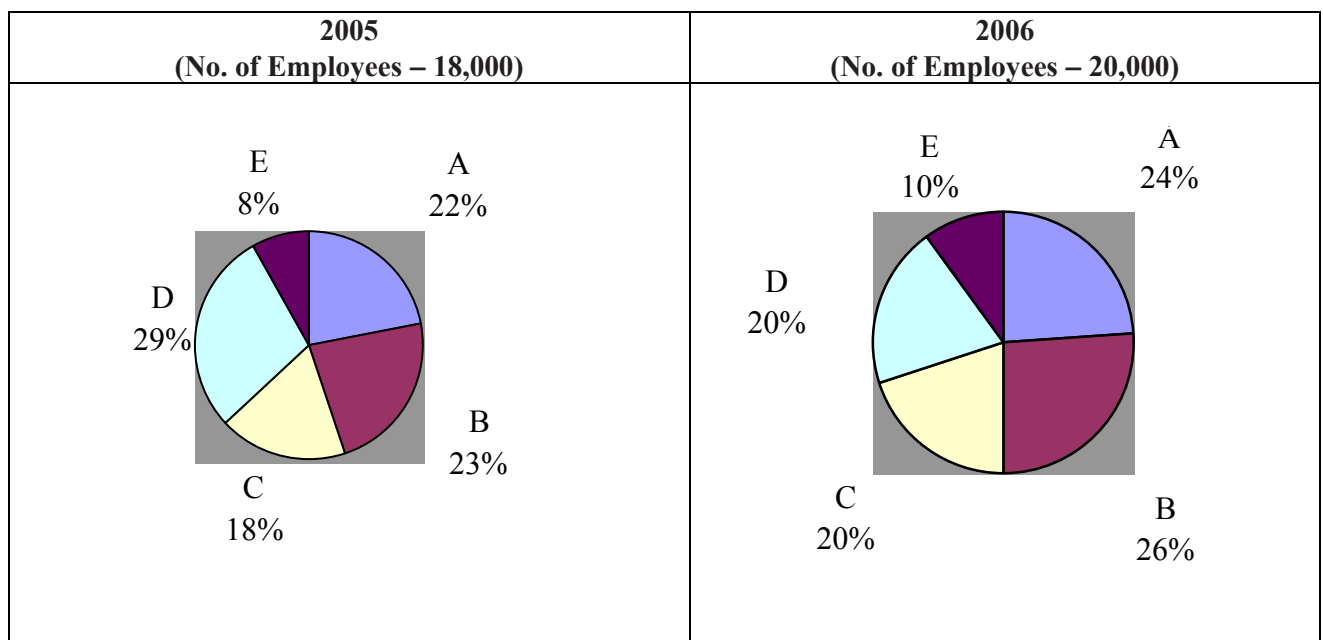
Time (Minutes)	Speed at given time (in km/hour)
0	40
30	45
45	47.5
60	50
90	55
120	60
150	65
180	70

101. How fast was the train travelling 2½ hours after the beginning of the time period?
 [1] 50 km/hr [2] 55 km/hr [3] 60 km/hr [4] 65 km/hr
102. During the three-hour period shown in the table, the speed of the train increased by:
 [1] 25% [2] 100% [3] 75% [4] 125%
103. At time t, measured in minutes after the beginning of the time period, which of the following gives the speed of the train in accordance with the table?
 [1] t/6 [2] 6t [3] 40 + t [4] 40 + t/6
104. A ladder is lying against a wall which is 5 metres high. If the ladder slips 2 metres away from the wall, the top of the ladder touches the foot of the wall. The length of the ladder is:
 [1] 5 m [2] 5.25 m [3] 7.25 m [4] 4 m
105. The profits of Biscuits India Ltd soared by 32% in the year 2006-07 as compared to year 2005-06. By what % did Biscuits India's Sales increase in 2006-07 compared to the previous year?
 (Assume: Profit = Sales – Expenses)
 Decide whether the information given in the two statements is sufficient to solve the problem.
 Statement (1) : Expenses in 2006-07 were Rs 1,400 crores, as compared to Rs 1,220 crores in 2005-06.
 Statement (2) : Sales in 2006-07 were Rs 4,300 crores.

110. **Statement X** : In 2004, the number of candidates offered jobs as a proportion of the number of CV's posted was higher for Technical than for Managerial candidates.
Statement Y : In 2004, among those short-listed by Employers, the Technical category had a higher success rate in securing jobs than the Managerial category.
111. **Statement X** : The percentage of drop-outs (from Registration stage to posting CV's) had decreased from 2004 to 2005 for Managerial category.
Statement Y : The percentage of drop-outs was higher for Technical than for Managerial category in 2005.
112. **Statement X** : The percentage increase in number of Registrations from 2004 to 2005 is higher for Managerial candidates than for Technical candidates.
Statement Y : The overall Registrations have grown by more than 25%.

Directions for (Qs. 113 to 116): The following piecharts give the percentage distribution of employees in different Departments in XYZ Company Ltd. during the years 2005 and 2006. Answer the questions using this data.

**A—Administration; B—Operations; C—Sales & Marketing;
 D—Finance & Accounts; E—Corporate HQ**



113. In which Dept is the variation in strength the maximum in 2006?
 [1] A [2] B [3] D [4] E
114. If 300 employees left Operations at the end of 2005, how many joined in 2006?
 [1] 480 [2] 960 [3] 1360 [4] None of these
115. What is the percentage increase in No. of employees in Sales & Marketing?
 [1] 2% [2] 2.34% [3] 23.45% [4] None of these
116. If the average monthly salary of employees in Administration was Rs 12,000 in 2005, what was the approximate total Salary expense of Administration in 2005?
 [1] Rs 47 crores [2] Rs 57 crores
 [3] Rs 66 crores [4] Rs 66 lakhs

Directions (Qs. 117 to 119): The following table gives cost data of select stock prices on 3rd December 2003 in two markets, BSE of India and NQE of Kya Kya island. Closing stock refers to the price at the close of trading hours and opening stock to the price at the beginning of the day. The Number currency of Kya Kya is # and the exchange rate is $\theta = \text{Rs. } 11$.

3 rd December 2003				
	Closing		Opening	
	BSE (RS.)	NQE (in #)	BSE (Rs.)	NQE (in #)
SIFY	247	22	232	21
INFY	115	10.5	105	9.5
Wipro	68	6.5	60	5.5
TCS	444	40	450	40.5

117. Which share and which market showed the highest % increase on 3rd December 2003?
 [1] SIFY on BSE [2] INFY and NQE
 [3] Wipro on NQE [4] TCS on NQE
118. Arbitrage means buying in one market and selling simultaneously in another market. If Mr Ghosh Babu were to buy a share at the opening price on one exchange and be able to sell it at the opening price on the other exchange, on which share does he make maximum % profit?
 [1] SIFY [2] INFY [3] Wipro [4] TCS
119. In an M&A deal SIFY is purchased by its parent company SATYAM which purchases 15% of SIFY's equity shares. Total SIFY's equity shares is 1 million. How much does Satyam pay in Rs for the stake if 50% of its purchases were on BSE's operating price and balance on BSE's closing price?
 [1] 36 million [2] 3.5 million [3] 363 million [4] 217 million
120. In March 2007, Computers Ltd made a bundled offer of its Laptops together with Deskjet printers to boost Sales, though both the Laptop and the printer were also available individually. What is the price of the Printer, if purchased separately? Decide whether the information given in the two statements is sufficient to solve the problem.
 Statement (1) : The bundled offer price was Rs 42,600.
 Statement (2) : The Laptop, without the bundle offer was priced at Rs 39,400.
 [1] Any one of the two statements (1) or (2) is sufficient to answer the question
 [2] Each of the statement (1) or (2) taken alone, is sufficient to answer the question
 [3] Both statements, taken together, are sufficient to answer the question, but neither of them alone is sufficient.
 [4] Both the statements together are insufficient to answer the question.

ANALYTICAL & LOGICAL REASONING SECTION

Directions (Qs. 121 to 123): Read the following passage and answer the questions.

An employee has been assigned the task of allotting offices to six of the staff members. The offices are numbered 1-6. The offices are arranged in a row and they are separated from each other by six foot high dividers. Hence voices, sounds and cigarette smoke flow easily from one office to another.

Miss Ruby needs to use the telephone quite often throughout the day. Mr Minhas and Mr Brar need adjacent offices as they need to consult each other often while working. Miss Harsha is a senior employee and has to be allotted the office number 5, having the biggest window.

Mr Dongre requires silence in the offices next to his. Mr Tanjore, Mr Minhas and Mr Dongre are all smokers. Miss Harsha finds tobacco smoke allergic and consequently the offices next to hers are to be occupied by non-smokers.

Unless specifically stated all the employees maintain an atmosphere of silence during office hours.

121. The ideal candidate to occupy the office furthest from Mr Brar would be:
[1] Miss Harsha [2] Mr Minhas [3] Mr Tanjore [4] Mr Dongre
122. The three employees who are smokers should be seated in the offices.
[1] 1, 2 and 4 [2] 2, 3 and 6 [3] 1, 2 and 6 [4] 1, 2 and 3
123. In the event of what occurrence, within a period of one month since the assignment of the offices, would a request for a change in office be put forth by one or more employees?
[1] Mr Dongre quitting smoking.
[2] The installation of a noisy teletype machine by Miss Harsha in her office.
[3] Miss Ruby needs silence in the office(s) next to her own.
[4] Mr Tanjore taking over the duties formerly taken care of by Mss Ruby.
124. You have three chests in front of you. The first chest is labelled "GOLD", the second is labelled "SILVER" and the third is labelled "GOLD OR SILVER". You have been told that all the labels are on the wrong chests and that one chest contain gold coins, one contains silver coins and one contains bronze coins.
- How many chests do you need to open to deduce which label goes on which chest?
[1] 0 [2] 1 [3] 2 [4] Cannot deduce
125. How many minutes before 12 noon is it when it is 27 minutes past 10 a.m.?
[1] 39 [2] 93 [3] 49 [4] 94
126. Shankar and Jwala are both members of a Youth club, though they are not speaking to each other and refuse to work with each other. Chaya, the club president, is appointing members to the fundraising committee, but she has resolved that she will not appoint anyone without his or her explicit consent. Shankar tells Chaya, "I will not consent to appointment on that committee unless I know whether Jwala is to be a member of it." And Jwala says, "I will not consent to be a member of that committee unless I know whether Shankar will be appointed to it."

If all three of these people stick by these resolutions, then:

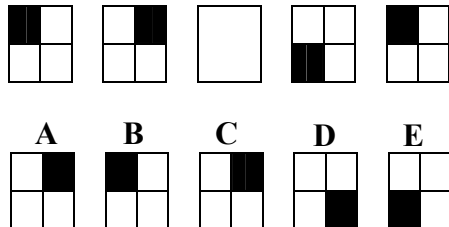
- [1] Neither of them can be appointed to the committee.
[2] They must either both be appointed or both be left out.
[3] The committee may finally have one of them, both of them, or neither of them as members.
[4] Either one of them can be appointed, but not both.
127. A bank customer had Rs 100 in his account. He then made 6 withdrawals, totaling Rs 100. He kept a record of these withdrawals, and the balance remaining in the account, as follows:

Withdrawals	Balance left
Rs. 50	Rs. 50/-
Rs. 25	Rs. 25
Rs. 10	Rs. 15
Rs. 8	Rs. 7
Rs. 5	Rs. 2
Rs. 2	Rs. 0
Rs.100	Rs. 99

So, why are the Totals not exactly right?

- [1] There is a mistake in the total of withdrawals.
- [2] There is a mistake in the total of the balance.
- [3] The two totals need not be equal.
- [4] The bank has cheated the customer.

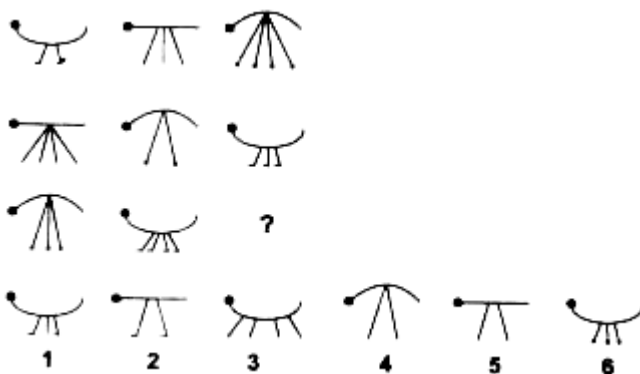
128. Which pattern from the bottom line (A, B, C, D or E) is missing from the top line?



- [1] A
- [2] B
- [3] D
- [4] E

Directions (Qs. 129 to 131): During their school Silver Jubilee Reunion, four alumni were discussing their starting annual salaries back in 1981. The salaries in question were Rupees 40, 50, 60 and 70 thousand per year. Of course the present MD of a private company earned the most. Arvind earned more than Biswajeet, and the doctor earned more than Dhruv the engineer. Chinmay could not remember what he started on. Biswajeet the lawyer did not start on Rs 50,000, nor did Dhruv.

129. What is Chinmay's current profession?
 [1] MD [2] Lawyer [3] Doctor [4] Engineer
130. What was the Lawyer's starting salary?
 [1] 40,000 [2] 50,000 [3] 60,000 [4] 70,000
131. Who received the highest starting salary?
 [1] Arvind [2] Biswajeet [3] Chinmay [4] Dhruv
132. Which image from the bottom row should replace the question mark?



- [1] 3
- [2] 6
- [3] 2
- [4] 5

133. A man has a job which requires him to work 8 straight days and rest on the ninth day. If he started work on a Monday, the 12th time he rests will be on what day of the week?
 [1] Sunday [2] Wednesday [3] Tuesday [4] Friday

What are the ages of each of the three children?

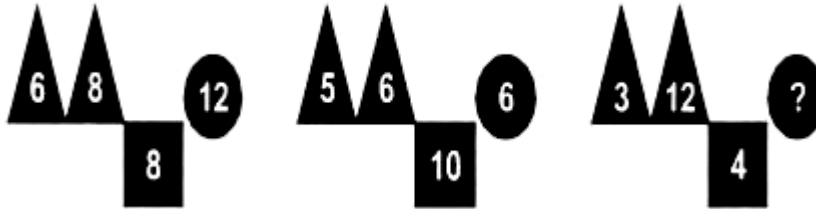
[1] 9, 2, 2

[2] 6, 6, 1

[3] 12, 3, 1

[4] 6, 3, 2

139. What number will replace the question mark?



[1] 40

[2] 18

[3] 19

[4] 24

140. An ingredient in coffee, known as RTC, has been found to inactivate common cold viruses in experiments. In previous experiments, researchers found that inactivated common cold viruses can convert healthy cells into cancer cells. It can be concluded that the use of coffee can cause cancer.

Which one of the following, if true, most seriously weakens the argument?

[1] Several teams of scientists performed the various experiments, and all of the teams had similar results.

[2] The carcinogenic effect of RTC could be neutralised by the other ingredients found in coffee.

[3] When RTC kills common cold viruses it weakens the immune system, and it might thus diminish the body's ability to fight other viruses, including viruses linked to cancers.

[4] If chemists modify the structure of RTC, RTC can be safely incorporated into medications to prevent the common cold.

141. Jaideep was given some money by his mother on his birthday. Jaideep spent all of it in five stores. In each store he spent one rupee more than half of what he had when he came in. How much did he get from his mother?

[1] Rs 25

[2] Rs 30

[3] Rs 46

[4] Rs 52

Directions Qs. (142 to 144): Use the data given below to answer the questions.

The following are the results of a survey conducted on a small cross section of students from Symbiosis Group of Institutes, to determine the readership of three Magazines. This survey was conducted in December 2006.

- Number of students who **read only Business India** was 40

- 60 students **read only Outlook**

- 110 students **read only India Today**

- 30 students **read all three magazines**

- 20 read **Business India and India Today, but not Outlook**

- 50 read **Business India and Outlook, but not India Today**

- 40 read **Outlook and India Today, but not Business India**

142. What was the total no. of students surveyed?

[1] 210

[2] 350

[3] 390

[4] None of these

143. How many students did not read Business India?

[1] 40

[2] 170

[3] 240

[4] None of the above

144. When another survey was conducted in May 2007 with the same set of students, their tastes had changed and the findings were different. All of them read India Today. 120 read Outlook, and no one read Business India. Hence, in May 2007, how many students read only India Today?

[1] 60

[2] 110

[3] 230

[4] None of the above

149. Where should the letter 'W' be placed?

B C D E J K L P
A H M T U V

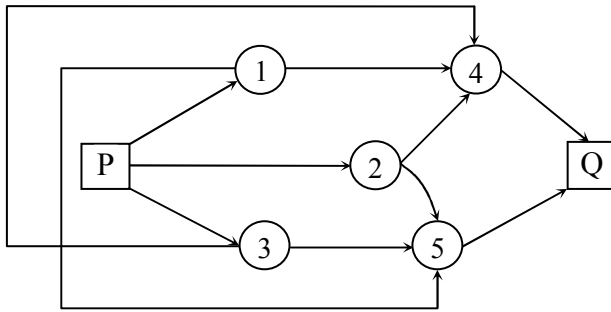
[1] Above

[2] Below

[3] Both

[4] None

150. What is the number of routes from P to Q?



[1] 5

[2] 6

[3] 9

[4] 12

