

BBA : CBS 2009 Series – 41

Answer Key

Qs.	Ans. Key	Qs.	Ans. Key	Qs.	Ans. Key	Qs.	Ans. Key	Qs.	Ans. Key	Qs.	Ans. Key
1	D	26	C	51	B	76	C	101	D	126	D
2	B	27	B	52	C	77	A	102	C	127	D
3	B	28	C	53	C	78	D	103	A	128	C
4	D	29	A	54	B	79	A	104	C	129	A
5	A	30	C	55	A	80	D	105	D	130	A
6	C	31	B	56	C	81	A	106	B	131	A
7	C	32	C	57	D	82	C	107	A	132	A
8	C	33	C	58	B	83	C	108	B	133	B
9	B	34	A	59	C	84	D	109	A	134	C
10	C	35	D	60	C	85	B	110	D	135	D
11	B	36	C	61	B	86	B	111	C	136	D
12	C	37	C	62	C	87	A	112	D	137	C
13	B	38	A	63	D	88	A	113	D	138	A
14	B	39	B	64	B	89	B	114	D	139	C
15	B	40	B	65	C	90	C	115	A	140	C
16	C	41	C	66	D	91	D	116	A	141	B
17	A	42	B	67	A	92	B	117	A	142	D
18	A	43	C	68	B	93	B	118	C	143	C
19	C	44	D	69	D	94	B	119	A	144	D
20	A	45	C	70	A	95	C	120	C	145	C
21	C	46	A	71	B	96	D	121	B	146	B
22	C	47	B	72	B	97	B	122	C	147	C
23	B	48	D	73	C	98	D	123	B	148	B
24	C	49	D	74	C	99	A	124	C	149	D
25	B	50	A	75	A	100	B	125	C	150	B

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Actual Question Paper

1. Which is the first Indian Company to be listed in NASDAQ
(A) Reliance (B) TCS (C) HCL (D) Infosys
2. Dalichi Sankyo has taken over which of the following Companies/Corporation of Indian base
(A) Jet Airways (B) Ranbaxy
(C) Bhilai Steel Plant (D) National Textiles Corporation
3. 'Inspire the Next' is the slogan of
(A) EPSON (B) Hitachi (C) Sony (D) LG
4. XYLO – Cars are being manufactured by
(A) TOYOTA (B) HYUNDAI (C) TATA MOTORS (D) MAHINDRA
5. The Brand Ambassador for OMEGA Watches in India is
(A) Shahrukh Khan (B) Amir Khan (C) George Clooney (D) Sania Mirza
6. Maruti Udyog Limited recently launched a new model called
(A) SX 4 (B) 800 DUO (C) A-Star (D) FABIA
7. Who is the current President of NASSCOM ?
(A) Pramod Bhasin (B) Rajiv Memani (C) Kiran Karnik (D) Ganesh Natrajan
8. "Featherlite" is associated with
(A) Woolen Garments (B) Sanitary ware (C) Furniture (D) Travel Bags
9. The Pay Revision Committee for the public sector executives which submitted its report recently was headed by
(A) Justice S. Ratnavel Pandian (B) Justice (Retd.) M. J. Rao
(C) Justice (Retd.) M. B. Shah (D) Dr. Montek Singh Ahluwalia
10. The recent meeting of G-20 Summit was held in
(A) New York (B) Helsinki (C) London (D) Washington
11. M. S. Dhoni, Indian Cricket Team captain promotes –
(A) Airtel (B) Aircel (C) Big TV (D) Tata Indicom
12. The News channel which hosts the "News Hour" is
(A) NDTV (B) UTV India (C) "TIMES NOW" (D) ZEE NEWS
13. 'Sar Utha Ke Jiyo' is the slogan of
(A) LIC of India (B) HDFC Standard Life (C) ICICI Prudential (D) AVIVA
14. "God's Own Country" is the slogan of
(A) Himachal Pradesh Tourism Corporation (B) Kerala Tourism Corporation
(C) J&K Tourism Corporation (D) Goa Tourism Corporation
15. VAIO Laptop is manufactured and marketed by
(A) IBM (B) SONY (C) COMPAQ (D) WIPRO

16. Who is the author of the book 'Economic Nightmare of India'?
(A) Morarji Desai (B) Narayana Murthy (C) Charan Singh (D) Jyoti Basu
17. Who is the present chairman of SEBI?
(A) C. B. Bhave (B) P. C. Jha (C) G. Domodharan (D) J. Harinarayan
18. Pantaloon's Femina Miss India 2009 pageant was held in
(A) Mumbai (B) New Delhi (C) Chandigarh (D) Bangalore
19. Who among the following has not been inducted as Director in the 'Satyam' Board by the Government?
(A) Deepak Parekh (B) Kiran Karnik (C) Anand Mahindra (D) Tarun Das
20. Which of the following is a British Firm?
(A) Vodafone (B) Airtel (C) Aircel (D) Ericsson
21. OTCEI is
(A) Atomic submarine of China (B) Economic Policy of USA
(C) An Indian Share Market (D) A defence research organization
22. A train which has started last year between Kolkata (India) and Dhaka (Bangladesh) has been named
(A) Sadbhawana Express (B) Shanti Express
(C) Maitri Express (D) Aman Express
23. The headquarters of which of the following is correctly given?
(A) UNO – London (B) WTO – Geneva (C) ILO – New York (D) FAO – Chicago
24. Which among the following is a public sector commercial bank?
(A) ICICI Bank (B) HDFC Bank
(C) Indian Overseas Bank (D) UTI Bank
25. Who is the Chairman of the Planning Commission?
(A) President (B) Prime Minister (C) Finance Minister (D) Governor of RBI
26. POSCO which is to establish a steel plant in Orissa belongs to which country?
(A) USA (B) South Africa (C) South Korea (D) Germany
27. Which one has become 8th member of SAARC?
(A) China (B) Afghanistan (C) Mauritius (D) Myanmar
28. Which of the following cities has become the first 100% e-literate city of India?
(A) Pune (B) Hyderabad (C) Kozikode (D) Bangalore
29. UNO has fixed the target for 'Education for All' till the year
(A) 2012 (B) 2013 (C) 2014 (D) 2015
30. Who is the richest resident Indian in the Economic Magazine – Forbes 2008?
(A) Azim Premji (B) Laxmi Mittal (C) Mukesh Ambani (D) Ratan Tata

Directions for Questions 31–36: Choose the set of words, that when inserted in the sentence with blanks, best fit the meaning of the sentence as a whole.

31. He was _____ because his plans had gone _____.
(A) pleased awry (B) distraught awry
(C) pleased distraught (D) awry distraught
32. The musical performance _____ my _____ and made the evening memorable.
(A) deliberated intentions (B) masqueraded nerves
(C) stimulated senses (D) freed nostrils
33. He worked with so much _____ that no one could _____ with him.
(A) Laziness criticize (B) competition zeal
(C) zeal compete (D) zeal praise
34. The smuggler yielded to the _____ and fell into the police _____.
(A) temptation trap (B) ransom cordon
(C) bribe car (D) drugs sleep
35. The _____ of 24 × 7 news is difficult to _____ to.
(A) vicarious satiate (B) flamboyance understand
(C) nuisance adopt (D) plethora relate
36. Raj _____ hard, but Rahul _____ works.
(A) work harder (B) work hard
(C) works hardly (D) works hard

Directions for Questions 37–47: Choose the most appropriate word nearest in meaning to the word given in capitals.

37. INSURRECTION
(A) blessing (B) prohibition (C) uprising (D) surety
38. CAPITULATE
(A) succumb (B) slander (C) sylvan (D) measure
39. INDIGENT
(A) indigestion (B) poor (C) obstinate (D) greedy
40. GARRULOUS
(A) Laconic (B) wordy (C) frozen (D) ferocious
41. PLAUDIT
(A) scholar (B) cheat (C) commendation (D) complaint

Directions for Questions 42–48: Read the following passage carefully and answer the questions that follow:

A majority of companies in India are trying to be selective while planning their workforce, compensation and benefit cuts for this year, even as they anticipate a decline in their company's business performance, next year, reveals a new Mercer Survey, 'Leading Through Unprecedented Times'.

The survey states that Indian companies are likely to curtail overall hiring, while continuing to hire talent to fill shortages in key skill-sets. Another interesting fact that the survey reveals is that most companies in India still hope to avoid significant workforce reductions. However, it also states that a deep or prolonged economic downturn could force a more drastic action. "Clearly, what the survey indicates is that while workforce reductions will occur in India, there will be hiring which will be selective and skill based, and most companies believe they can avoid significant workforce cuts," express Padma Ravichandar, Country Leader, Mercer Consulting (India). S. Y. Siddiqui, Managing Executive Officer (Admn.), Maruti Suzuki India Limited, says : "Our expansion plans and recruitment intentions continue to remain unaltered. We are specifically looking at strengthening the R & D capability of our company. And in this quest, we have already planned to scale up our manpower requirements for our R & D functions to almost 1,000 employees by 2010–11. The number of engineers hired has shot up from a little less than 300 that we recruited in the beginning of the last year, to around 600 now. Recently the company has recruited a batch of 250 Graduate Engineer Trainees (GETs) too. We have undertaken many initiatives to bring down costs, across operations but neither are we holding back our recruitment activities nor are we handing over pink slips to our employees to cut costs. The current situation does raise a lot of concern but we view it as a short term phenomenon and are confident that India will emerge as a strong economy in the near future."

42. According to the Mercer survey, companies in India anticipate
- (A) A rise in business performance (B) A decline in business performance
(C) Benefit cuts for their employees (D) Curtailing hiring
43. The hiring pattern anticipated in the survey is
- (A) Overall workforce reductions
(B) Increased recruitment
(C) Curtailed hiring with a focus on hiring employees with key skill sets
(D) Hiring in the area of R & D
44. The tone of the survey is
- (A) Pessimistic (B) Optimistic
(C) Neutral (D) Guardedly Optimistic
45. According to the statement given by S. Y. Siddiqui, Maruti plans to
- (A) Hand out plenty of pink slips in the coming year
(B) Hire plenty of GETs in the coming year
(C) Focus on recruitment in the area of R & D
(D) Hold back recruitment activities
46. The antonym of the following word appears in the title of the survey.
- (A) Customary (B) Economical
(C) Honest (D) Expensive

47. What is the relationship between the survey report and Siddiqui's statement?
 (A) Antithetical (B) Complementary (C) No relationship (D) Contradictory
48. The main point of concern in the passage is
 (A) Business Performance (B) Shortage in key skill-sets
 (C) Expansion Plans (D) Recruitment Intentions

Directions for Questions 49–53: Choose the correct antonym for the following words given in CAPITALS.

49. GERMANE
 (A) teutonic (B) healthy (C) massive (D) irrelevant
50. PERMANENT
 (A) mutable (B) indifferent (C) improper (D) frugal
51. INSIPID
 (A) juicy (B) tasty (C) emaciated (D) silly
52. AMENABLE
 (A) agreeable (B) responsive (C) intractable (D) accomodative
53. ABHOR
 (A) detest (B) hate (C) adore (D) absolve

Directions for Questions 54–59: In each of the following groups, one word is misspelt. Choose that word.

54. (A) intransigent (B) inocuous (C) incognito (D) illicit
55. (A) comensurate (B) collaborate (C) castigate (D) corpulent
56. (A) caricature (B) profusion (C) priviledge (D) benediction
57. (A) preference (B) lettering (C) betterment (D) detterent
58. (A) opportunity (B) oprobrium (C) obsolete (D) onerous
59. (A) cushion (B) fusion (C) mision (D) fashion

Directions for Questions 60–64: Each of the following questions has a pair of words that have a relationship to each other. Choose the alternative from the choices given that has the same relationship.

60. MOROSE : CHEERFUL
 (A) Fragile : Frail (B) Beautiful : Pretty (C) Replete : Deprive (D) Pittance : Paltry
61. FLOCK : BIRD
 (A) Classroom : Student (B) Team : Player
 (C) Garden : flower (D) Parliament : Minister

62. RIVER : OCEAN
 (A) River : Distributary (B) River : Tributary (C) Tributary : River (D) Distributary : River
63. VIXEN : FOX
 (A) Kitten : Cat (B) Lion : Tiger (C) Bull : Ox (D) Hen : Cock
64. ALPHABET : WORD
 (A) Word : Book (B) Word : Sentence (C) Word : Essay (D) Word : Speech

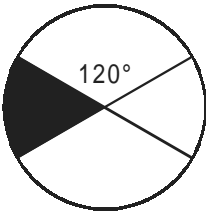
Directions for Questions 65–70: In the following you have been provided with the beginning and the end of a sentence. The rest of the sentence is broken into 4 parts, each labelled w, x, y and z. You are required to arrange these so as to form a complete and meaningful sentence. Choose the correct combination from the choices given.

65. It takes can be seen at once.
 w) for the results of a good
 x) a long time
 y) deed to show
 z) but the results of an evil deed
 (A) zywx (B) wxyz (C) xwyz (D) yzwx
66. The girl to give the beggar.
 w) put her hand
 x) coin
 y) into the money bag
 z) and drew out a
 (A) zxyw (B) yzwx (C) wxyz (D) wyzx
67. The use of intelligence tests and can be accurately measured.
 w) is an inherited characteristic
 x) which has nothing to do with the child's environment
 y) has been dominated
 z) by the idea that intelligence
 (A) yzwx (B) zywx (C) wzyx (D) xzwy
68. In democratic countries by all sections of society.
 w) is rightly condemned
 x) press
 y) any effort to restrict
 z) the freedom of the
 (A) yxwz (B) yzwx (C) ywxz (D) yzwx
69. Applications in the scale of pay as admissable by the Companies' Act.
 w) are invited from
 x) in the department of Sales
 y) eligible candidates
 z) for filling up two posts
 (A) zxyw (B) zywx (C) yxwz (D) wyzw

70. All coloured objects in varying degrees.
 w) or transmit others
 x) wavelength of light
 y) selectively absorb certain
 z) and reflect
 (A) yxzw (B) wxyz (C) yxwz (D) xwyz
71. Three consecutive positive even numbers are such that thrice that first number exceeds double the third by 2, the third number is
 (A) 10 (B) 14 (C) 16 (D) 12
72. Which of the following is true
 (A) $7^{3^2} = (7^3)^2$ (B) $7^{3^2} > (7^3)^2$ (C) $7^{3^2} < (7^3)^2$ (D) None of the above
73. Two poles 15 m and 30 m high stand upright in a playground. If their feet be 36 m apart, then the distance between their tops is
 (A) 30 m (B) 36 m (C) 39 m (D) 40 m
74. How many words can be formed with the letters of the word 'EQUATION'?
 (A) 6! (B) 7! (C) 8! (D) 9!
75. If $\frac{X}{Y} = \frac{3}{4}$, then the value of $\frac{6}{7} + \frac{y-x}{y+x}$ is
 (A) 1 (B) 2 (C) 3 (D) 4
76. A man takes 8 hrs to walk to a certain place and ride back. However, he could have gained 2 hrs, if he had covered both ways by riding. How long would he take to walk both ways?
 (A) 2 hrs (B) 8 hrs (C) 10 hrs (D) 12 hrs
77. A sells a bicycle to B at a profit of 30% and B sells it to C at a loss of 20%. If C pays Rs. 520/= for it, at what price did A buy?
 (A) Rs. 500/- (B) Rs. 520/- (C) Rs. 540/- (D) Rs. 580/-
78. In a locality, two thirds of the people have cable TV, one-fifth have VCR, and one-tenth have both. The fraction of people having either cable-TV or VCR is
 (A) 19/30 (B) 3/5 (C) 17/30 (D) 23/30
79. A consumer survey shows that 60% Indians like watching television and 70% like listening to FM radio. What is the percentage of Indians according to the survey who like both?
 (A) 30% (B) 60%
 (C) Between 30% and 70% (D) Between 30% and 60%

80. If $f(x) = \frac{x-1}{x+1}$, the $f(2x)$ is
- (A) $\frac{2f(x)+1}{f(x)+3}$ (B) $\frac{f(x)+1}{f(x)-2}$ (C) $\frac{3f(x)+1}{f(x)+1}$ (D) None of the above

81.



If the two lines in the above circle intersect at the center of the circle making an angle of 120° , what fraction of circular area is shaded?

- (A) $\frac{1}{6}$ (B) $\frac{1}{2}$ (C) $\frac{1}{4}$ (D) $\frac{1}{3}$
82. If Lata will be 40 years old after 7 years, what was her age y years ago?
 (A) $33 + y$ (B) $y - 33$ (C) $33 - y$ (D) None of the above
83. Mr. Sood wants to put up fencing on two sides of his rectangular yard and erect walls on other two sides which measure 20 feet each. If the yard has an area of 700 square feet, how many feet of fencing does he need?
 (A) 60 (B) 50 (C) 70 (D) 80
84. Three children, X, Y and Z of a business tycoon inherit his property worth crores of rupees. Out of the total amount, Rs. 200 crores were donated to charity. The remaining amount was divided among X, Y and Z in the ratio 2 : 3 : 4. If Y's share is Rs. 300 crores, what was the business tycoon's property worth?
 (A) Rs. 1500 Crores (B) Rs. 2000 crores (C) Rs. 1650 crores (D) None of the above
85. Increasing the original price of an article by 16% and then increasing the new price by 20% is equivalent to increasing the original price by
 (A) 36.35% (B) 39.2% (C) 38% (D) None of the above
86. $(1 + \sqrt{3})(\sqrt{3} - 1)$ is equal to
 (A) -2 (B) 2 (C) -3 (D) -1
87. If $\log_4 64 + \log_3 9 = \log_{10} x$, then x is equal to
 (A) 10^5 (B) 10^7 (C) 10^{12} (D) 10^{15}

88. If $a^2 - b^2 = 18$, what is the value of $(a + b)$ if $(a - b) = 9$
 (A) 2 (B) 9 (C) 27 (D) None of the above
89. What is the value of n if $(3^{2n+4})^2 3^4 = 1$
 (A) 3 (B) -3 (C) 12 (D) -12
90. If $x^2 - 2xy + y^2 = 81$. What is the value of $\sqrt{x - y}$?
 (A) 81 (B) 9 (C) 3 (D) None of the above

Directions for Questions 91–93: Identify the missing number.

91. 20, 30, 25, 35, ?, 40
 (A) 45 (B) 35 (C) 25 (D) 30
92. 11, 19, ?, 41, 55
 (A) 31 (B) 29 (C) 26 (D) 39

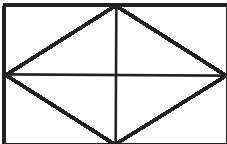
93.

41	44
36	66

72	78
62	?

 (A) 120 (B) (C) 130 (D) 132

94. It costs a manufacturer Rs. X per component to make the first 1000 components. All subsequent components cost $\frac{X}{3}$ each. If $X = \text{Rs. } 1.50$. How much will it cost to manufacture 4,000 components.
 (A) Rs. 3,500 (B) Rs. 3,000 (C) Rs. 4,000 (D) Rs. 3,250
95. A train travelling at 60 mph enters a tunnel that is 5 miles long. The train is one mile long. How many minutes does it take for the train to pass through the tunnel?
 (A) 4 (B) 5 (C) 6 (D) 7
96. P and Q are the two positive integers such that $PQ = 64$. Which of the following cannot be the value of $P + Q$.
 (A) 20 (B) 65 (C) 16 (D) 35
97. How many triangles are there in the following figure



- (A) 8 (B) 12 (C) 10 (D) 14

98. The multiplicative inverse of $-\frac{1}{18}$ is
- (A) 0 (B) 1 (C) $\frac{1}{18}$ (D) -18
99. Solve for x when $\frac{\log_3 9^x + \log_{81} 9}{\log_9 81} = \frac{1}{4}$
- (A) 0 (B) 1 (C) $\frac{1}{2}$ (D) $-\frac{1}{2}$

Directions for Questions 100–105: The table below shows the unit sales of the TT950 motorcycle in six European countries over a six month period. These motorcycles are imported into each country by a main dealer. Use this information to answer the questions.

Motorcycle Sales (Model TT950)							
Country	Jan	Feb	Mar	Apr	May	Jun	Total
Germany	34	47	45	54	56	60	296
UK	40	44	6	47	47	46	260
France	37	32	32	32	34	33	200
Belgium	14	14	14	16	17	14	89
Spain	29	29	28	31	29	31	177
Italy	22	24	24	26	25	23	144
Total	176	190	179	206	208	207	1166

100. What percentage of the overall total was sold to the German importer?
- (A) 22.0 (B) 25.4 (C) 25.8 (D) 24.1
101. What percentage of the overall total was sold in May?
- (A) 24.1 (B) 25.6 (C) 27.1 (D) 17.9
102. Which month showed the biggest increase in total sales from the previous month?
- (A) Feb (B) Mar (C) Apr (D) May
103. What percentage of the monthly total was sold to the biggest importer in February?
- (A) 24.7 (B) 23.1 (C) 36.5 (D) 51.1
104. What is the average number of units per month imported into Italy over the first four months of the year?
- (A) 22 (B) 23 (C) 24 (D) 25
105. What percentage of total imports is accounted for by the three smallest importers?
- (A) 37.1 (B) 40.0 (C) 36.6 (D) 35.1

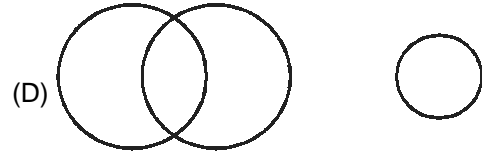
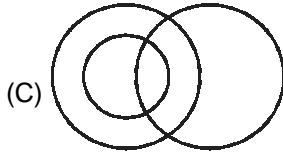
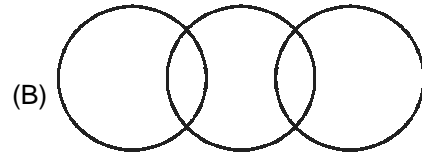
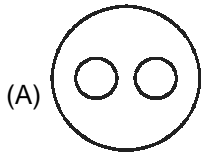
106. If the length of a rectangle increases by 10% and the breadth of that rectangle decreases by 12% then the % change in area is
 (A) 3% (B) 3.2% (C) 4.6% (D) 4%
107. The circumference of a circle is 100 cm. The side of the square inscribed in the circle is
 (A) $\frac{\sqrt{2}}{\pi} 50$ (B) $\frac{\pi}{\sqrt{2}} 50$ (C) $\frac{\sqrt{2}}{\pi} 100$ (D) $\frac{\pi}{\sqrt{2}} 100$
108. The sum of 1st n odd numbers is
 (A) n (B) n^2 (C) $n^2 + 1$ (D) $n^2 - 1$
109. Solve $\frac{\left\{ \left(\frac{1}{3} \right)^{-3} - \left(\frac{1}{2} \right)^{-3} \right\}}{\left(\frac{1}{4} \right)^{-3}}$
 (A) $\frac{19}{64}$ (B) $\frac{27}{16}$ (C) $\frac{64}{19}$ (D) $\frac{16}{25}$
110. If $\left(x - \frac{1}{x} \right) = 5$. Find the value of $x^2 + \frac{1}{x^2}$
 (A) 16 (B) 20 (C) 25 (D) 27

Directions for Questions 111–114: Read the following information carefully and choose the right answer.

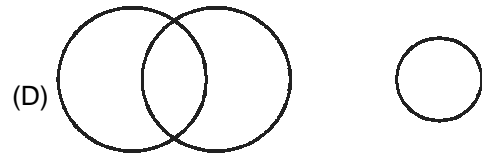
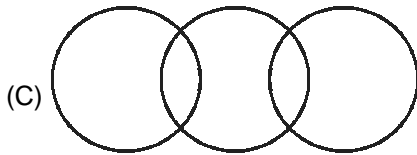
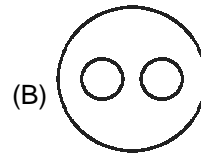
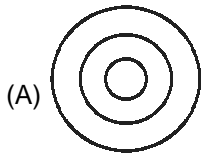
Seven people J, K, L, M, N, O and P are standing in a single file line, facing an information booth. The first person is closest to the booth. N is somewhere ahead of O. There is exactly one person standing between L and P. M is immediately behind both K and M.

111. If M and L are fourth and fifth in line respectively, which of the following must be true?
 (A) K is first (B) N is first (C) O is sixth (D) O is seventh
112. In the sequence worked out for Ques. 81 which of the following may not be true?
 (A) P is last (B) K is first (C) N is second (D) M is second
113. In the sequence worked out for Ques. 81 what is the position of J.
 (A) 4th (B) 6th (C) 2nd (D) None of the above
114. If J is standing immediately behind P, then which of the following must be true?
 (A) J is fifth (B) L is first (C) L is second (D) O is seventh

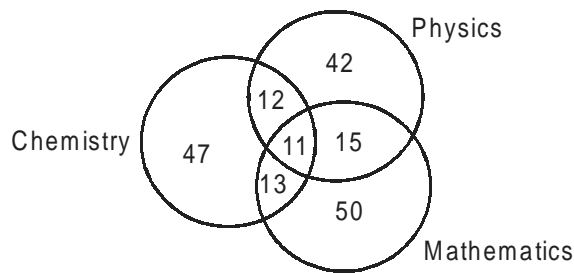
115. Which of the following diagrams correctly represents elephants, wolves and Animals



116. Which of the following diagrams correctly illustrates the relationship among carrots, vegetables and food?



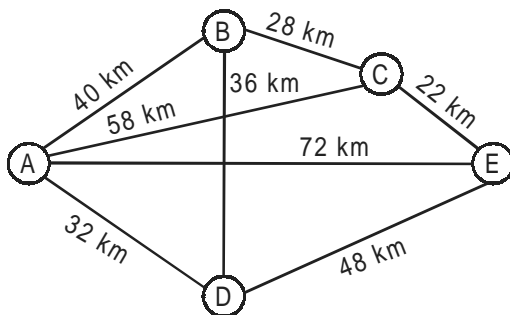
Directions for Questions 117–119: The diagram given below shows the number of students who got distinction in three subjects out of 500 students. Study the diagram carefully and answer the questions that follow.



117. What is the percentage of students who got distinction in only two subjects?
 (A) 8% (B) 9% (C) 10% (D) 12%
118. What is the percentage of students who got distinction?
 (A) 28% (B) 35% (C) 38% (D) 40%

119. The percentage of students with distinction marks in mathematics is
 (A) 17.8% (B) 18.6% (C) 19.2% (D) 20.6%
120. Pointing to a man, a woman said, "His mother is the only daughter of my mother." How is the woman related to the man?
 (A) Mother (B) Daughter (C) Sister (D) Grandmother

Directions for Questions 121–123: The figure below is a geometrical presentation of a route map. Refer to this diagram and answer the questions that follow.



121. By what distance is the straight line joining journey from A to E shorter than via D.
 (A) 10 km (B) 8 km (C) 12 km (D) 6 km
122. If one drives from city A to city E via C only, with a speed of 40 km per hour, how much time will it take to reach E?
 (A) 1 hr 20 mins (B) 2 hr 40 mins (C) 2 hrs (D) 1 hr 35 mins
123. A man make a round trip from A, via B, C, E and D in 5 hours. He completes his journey upto E in 3 hours. What should be his speed after E to complete the journey in stipulated time?
 (A) 35 km/hr (B) 40 km/hr (C) 38 km/hr (D) 32 km/hr

Directions for Questions 124–130: Read the following passage carefully and choose the best answer.

In a game exactly six inverted cups stand side by side in a straight line and each has exactly one ball hidden under it. The cups are numbered consecutively 1 through 6. Each of the ball is painted a single solid color. The colors of the balls are green, magenta, orange, purple, red and yellow. The balls have been hidden under the cups in a manner that conforms to the following conditions:

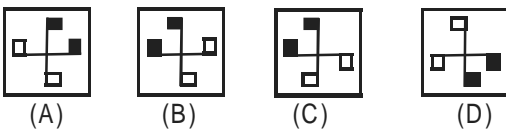
The purple ball must be hidden under a lower-numbered cup than the orange ball.

The red ball must be hidden under a cup immediately adjacent to the cup under which the magenta ball is hidden. The green ball must be hidden under cup 5.

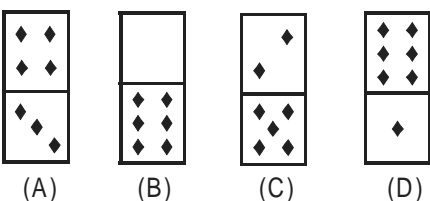
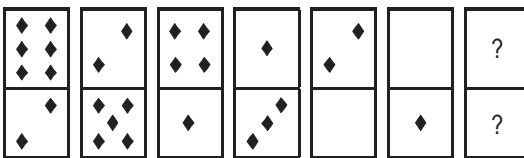
124. Which of the following could be the colors of the balls under the cups, in order from 1 through 6?
 (A) Green, Yellow, Magenta, Red, Orange, Yellow
 (B) Magenta, Green, Purple, Red, Orange, Yellow
 (C) Magenta, Red, Purple, Yellow Green, Orange
 (D) Orange, Yellow, Red, Magenta, Green Purple

125. If the magenta ball is under cup 4, the red ball must be under cup
 (A) 1 (B) 2 (C) 3 (D) 5
126. A ball of which of the following colors could be under cup 6?
 (A) Green (B) Magenta (C) Purple (D) Yellow
127. If the purple ball is under cup 4, the orange ball must be under cup
 (A) 1 (B) 2 (C) 3 (D) 6
128. Which of the following must be true?
 (A) The green ball is under a lower numbered cup than the yellow ball
 (B) The orange ball is under a lower numbered cup than the green ball
 (C) The purple ball is under a lower numbered cup than the green ball
 (D) The purple ball is under a lower numbered cup than the red ball
129. If the orange ball is under cup 2, balls of which of the following colors could be under cups immediately adjacent to each other?
 (A) Green and magenta (B) Green and purple (C) Orange and yellow (D) Purple and red
130. If the magenta ball is under cup 1, balls of which of the following colors must be under cups immediately adjacent to each other?
 (A) Green and Orange (B) Green and Yellow (C) Purple and Red (D) Purple and Yellow

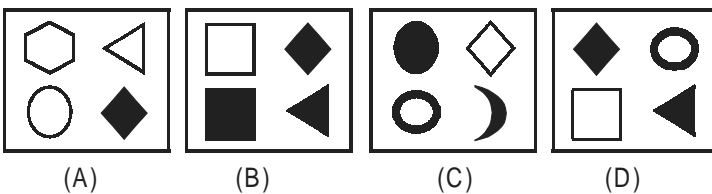
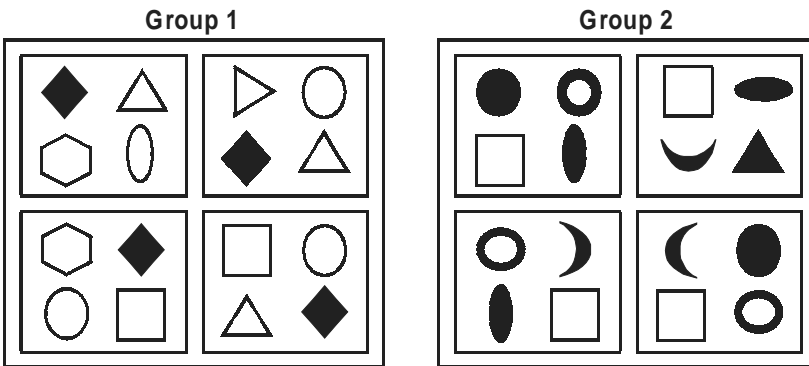
131. Which figure is the odd one out?



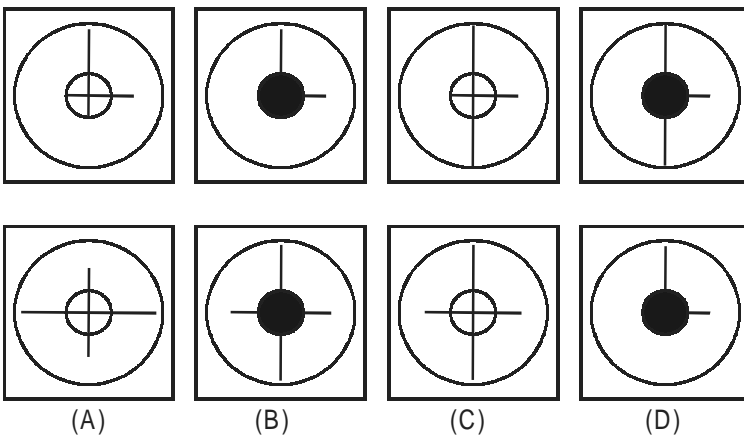
132. Which figure is next in the series?



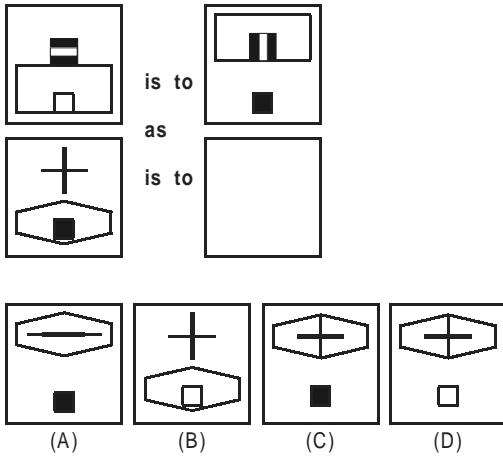
133. Which figure belongs in neither group ?



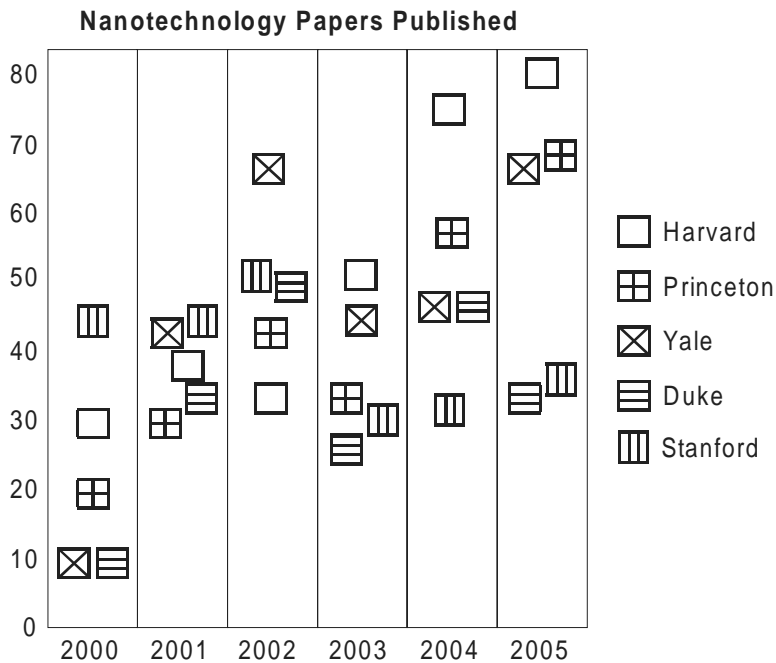
134. Which figure completes the series?



135. Which figure completes the statement ?



Directions for Questions 136–140: The table below shows the number of nonotechnology papers published by leading US Universities over a six year period. Use this information to answer the questions.



136. How many papers were published by researchers at Yale in 2002
 (A) 50 (B) 55 (C) 60 (D) 65

137. In what year did researchers at Stanford publish most papers?
 (A) 2000 (B) 2001 (C) 2002 (D) 2003
138. In what year did researchers at Duke and Yale first publish the same number of papers
 (A) 2000 (B) 2001 (C) 2002 (D) 2003
139. In what year did researchers at Princeton publish more papers than those at Harvard?
 (A) 2000 (B) 2001 (C) 2002 (D) 2004
140. Which university published the second highest number of papers over the period?
 (A) Harvard (B) Princeton (C) Yale (D) Duke

Directions for Questions 141–145: Refer to the following data and answer the questions that follow.

A numerical machine accepts two values X and Y. Then it updates these values as $X = XY$ and $Y = Y + 1$ in every step. The machine stops at $X \geq N$.

141. For $X = 3$, $Y = 2$ and $N = 100$, how many steps are performed before the machine stops?
 (A) 2 (B) 3 (C) 4 (D) 5
142. In the above question, what is the final value of X?
 (A) 6 (B) 20 (C) 72 (D) 360
143. In the above question, what is the final value of Y?
 (A) 4 (B) 5 (C) 6 (D) 20
144. If the value of N is changed to 500, what would be the final value of X?
 (A) 360 (B) 500 (C) 560 (D) 2160
145. If $X = 2$ and $Y = 3$, what should be the minimum value of N such that final value of Y is 7?
 (A) 300 (B) 360 (C) 720 (D) 860

Directions for Questions 146–147: In a certain code language

- (i) 'Pic vic nic' means 'Winter is cold';
 (ii) 'to nic re' means 'summer is hot';
 (iii) 're pic too' means 'winter and summer';
 (iv) 'vic tho pa' means 'nights are cold';
146. Which word in that language means 'Summer'?
 (A) nic (B) re (C) to (D) pic
147. To find the answer to the above question, which of the following statements is superfluous?
 (A) only (ii) (B) only (iv) (C) Both (i) and (iv) (D) neither (i) nor (iv)

148. A man is facing north-west. He turns 90° in the clockwise direction and then 135° in the anticlockwise direction. What direction is he facing now?
(A) East (B) West (C) North (D) South

Directions for Questions 149–150: In a particular coded language the alphabets are written as A = 2; B = 5; C = 10; D = 17; E = 26; ----- Decode the language and answer the following

149. 5 82 325 17 stands for
(A) BURN (B) BARK (C) BIND (D) BIRD
150. Which of the following will be the coded Language for the word EXAM?
(A) 26 626 2 145 (B) 26 577 2 170 (C) 36 626 2 145 (D) 36 577 2 169