AFCAT
Air Force Common Admission Test
Solved Paper 2014   Held on 31-08-2014

Directions (Q. Nos. 1-6) *Select the most appropriate word from the options against each number.*

Science has made an **(1)** contribution to the relief of human suffering and humanity **(2)** a deep **(3)** of gratitude to scientists whose **(4)** and sacrifices have led to many **(5)** discoveries and inventions which have done so much to **(6)** human pain and misery.

1. (a) excessive   (b) enormous
     (c) intensive   (d) active

2. (a) feels   (b) offers
     (c) owes   (d) acknowledges

3. (a) amount   (b) fund
     (c) loan   (d) debt

4. (a) labours   (b) discoveries
     (c) achievements   (d) successes

5. (a) strange   (b) useful
     (c) advantageous   (d) profitable

6. (a) decrease   (b) disappears
     (c) alleviate   (d) belittle

Directions (Q. Nos. 7-9) *Read the following passage carefully and answer the questions given below it.*

Language is often used for one of the following three purposes, namely, to inform, to convince and to persuade. The first, requiring talent of telling what we know, is a matter of little difficulty. The second demands reasoning. The third, besides reasoning, demands all the aid that we can obtain from the use of figures of speech or figures of rhetoric, which means the power of persuasion.

7. Rhetoric is the
     (a) art of reasoning
     (b) use of figure of speech
     (c) power of persuasion
     (d) means of communicating information

8. The art of persuasion requires the use of
     (a) information and talent feels
     (b) reasoning and information
     (c) figure of speech
     (d) reasoning and figure of speech

9. The above passage is
     (a) informative   (b) persuasive
     (c) convincing   (d) rhetorical

Based on Memory

Directions (Q.Nos.10-13) *Choose the word which is nearest in meaning to the given word.*

10. Liberalise
     (a) Resist   (b) Change
     (c) Function   (d) Malfunction

11. Pragmatic
     (a) Theoretical   (b) Suitable
     (c) Realistic   (d) Productive

12. Pristine
     (a) Fresh   (b) Old   (c) Preserve   (d) Dirty

13. Intrepid
     (a) Middle   (b) Tolerant   (c) Rude   (d) Fearless

Directions (Q. Nos. 14-17) *Choose the word which is nearly opposite in meaning to the given word.*

14. Angelical
     (a) Magnanimous   (b) Benevolent
     (c) Diabolical   (d) Critical

15. Haughtiness
     (a) Affability   (b) Unskilled
     (c) Adduce   (d) Abject

16. Bellow
     (a) Tout   (b) Whisper   (c) Stupour   (d) Down

17. Inequity
     (a) Law   (b) Illegal   (c) Slander   (d) Libel

Directions (Q. Nos.18-21) *Choose the word that best defines the given phrase.*

18. Tickled pink
     (a) Greatly pleased   (b) Coloured
     (c) Deeply upset   (d) Embarrassed

19. Split one's side
     (a) Intense pain   (b) To laugh a lot
     (c) To be hurt   (d) None of the above

20. Building castles in the air
     (a) Making impossible plans
     (b) Making tall promises
     (c) Building skyscrapers
     (d) Structures without strong foundation

21. At the drop of a hat
     (a) Willingly and softly   (b) Willingly and immediately
     (c) Willingly and silently   (d) Slowly and silently

Directions (Q.Nos. 22-25) *Choose the correctly spelt word.*

22. (a) Parentheses   (b) Parenthsis
     (c) Parentesis   (d) Parenthses

23. (a) Verstile   (b) Versatile
     (c) Versetile   (d) Versatele

24. (a) Hemmorrhage   (b) Hemorrhage
     (c) Haemorrhage   (d) Hemmorrage

25. (a) Vetnerinarian (b) Veternarian
     (c) Vetrinarian   (d) Veterinarian

Directions (Q.Nos. 26-29) *Which word or words explains the meaning of the following idioms.*

26. Airy-Fairy
     (a) Most important (b) Nervous
     (c) Not practical (d) Confident

27. Be given the axe
     (a) To move fast   (b) Carpenter
     (c) Woodcutter   (d) To lose job

28. To go like a bomb
     (a) Loud explosion (b) To move fast
     (c) Terrorism   (d) Not practical

29. Bolt from the blue
     (a) Unexpected   (b) Lighting
     (c) Nervous   (d) Sudden

Directions (Q.Nos. 30-65) *Choose the most appropriate answer.*

30. Which of the following rulers had the title 'Kaviraja'
     (a) Kumaragupta   (b) Chandragupta
     (c) Skandagupta   (d) Samudragupta

31. The Viceroy who divided Bengal by following the divide and rule policy was.
     (a) Lord Curzon   (b) Lord Ripon
     (c) Lord Lytton   (d) Lord Mayo

32. The right to vote in the national elections in India is based on the principle of
     (a) Restricted franchise   (b) Hereditary privileges
     (c) Property qualifications (d) Universal adult suffrage

33. Algae often float on surface of water during day but sink during night due to
     (a) evolution and trapping of oxygen bubbles during the day in their photosynthesis process
     (b) becoming light as they consume most of their food in the night
     (c) warming action of Sun during the day
     (d) release of absorbed air by warming of water

34. Who is the author of 'Train to Pakistan'?
     (a) Arun Shourie   (b) J N Dixit
     (c) Khushwant Singh (d) Ismat Chugtai

35. On which river is Berlin city situated?
     (a) Potomac (b) Irrawaddy (c) Rhine (d) Spree

36. The Commonwealth Games Relay Baton has traditionally contained
     (a) sand from the last host city
     (b) a message from the Head of the Commonwealth
     (c) The Commonwealth Games Motto
     (d) sand from each competing nation

37. Who was the first woman to climb Mount Everest?
     (a) Junko Tabei   (b) Tenzing Norgay
     (c) Aarti Pradhan (d) Bachendri Pal

38. Who founded the Asiatic Society of Bengal in Kolkata?
     (a) Warren Hastings (b) John Shore
     (c) Sir William Jones (d) Lord Cornwallis

39. When is the World Poetry Day recognized by the UNESCO observed?
     (a) 02 February   (b) 30 December
     (c) 21 March   (d) 14 February

40. In which respect have the Centre-State relations been specifically termed as municipal relations?
     (a) Centre's control of the State in the legislative sphere
     (b) Centre's control of the State in financial matter
     (c) Centre's control of the state in the administrative sector
     (d) Centre's control of the state in the planning process

41. The youngest mountain range in the world is
     (a) Himalayas (b) Alps   (c) Andes   (d) Rockies

42. Who was the first Commander in Chief of Indian Air Force in Independent India?
     (a) Gen KM Kariyappa
     (b) Field Marshal Sam Manekshaw
     (c) Major Stringer Lawrence
     (d) Thomas Walker Elmhirst

43. What is the 'splash and burn agriculture' in Indonesia called as?
     (a) Jhoom cultivation (b) Roke cultivation
     (c) Milpa cultivation (d) Ladang cultivation

44. Which theory gave birth to the French Revolution and the Revolution in America?
     (a) Legal theory of rights   (b) Theory of natural rights
     (c) Social welfare theory   (d) Historical theory of rights

45. 38th parallel is a boundary line between ....
     (a) United States and Canada (b) Pakistan and India
     (c) Turkey and Cyprus   (d) South and North Korea

46. 'Satyameva Jayate' is borrowed from which of the following?
     (a) Mundaka Upanishad (b) Mahabharat
     (c) Ramayana   (d) Arthshashtra

47. Two-third of a consignment was sold at a profit of 5% and the remainder at a loss of 2%. If the total profit was ₹ 400, what was the value of the consignment?
     (a) ₹13000 (b) ₹17000 (c) ₹15000 (d) ₹40000

48. 7 is added to a certain number, the sum is multiplied by 5, the product is divided by 9 and 3 is subtracted from the quotient. The remainder left is 12. What is the number?
     (a) 20   (b) 30   (c) 40   (d) 5

49. A train covers a distance of 10 km in 12 min. If its speed is decreased by 5 km/h, what is the time taken by the train to cover the same distance?
     (a) 14 min 33 s   (b) 13 min 33 s
     (c) 13 min 20 s   (d) 15 min 20 s

50. A is thrice as good a workman as B, and takes 10 days less to do a piece of work than B takes. How many days will B take to complete, if he works alone?
     (a) 21   (b) 15   (c) 18   (d) 24

51. In Arun's opinion his weight is greater than 65 kg but less than 72 kg. His brother does not agree with Arun and he thinks that Arun's weight is greater than 60 kg but less than 70 kg. His mother's view is that his weight cannot be greater than 68 kg. If all of them are correct in their estimation, what is the average of different probable weights of Arun?
(a) 71 kg   (b) 67 kg
(c) 67.5 kg   (d) 68 kg

52. In three annual examinations, of which the aggregate marks of each was 500, a student secured average marks 45% and 55% in the first and the second yearly examinations respectively. To secure 60% average total marks, it is necessary for him in third yearly examination to secure .... marks.
(a) 300   (b) 350   (c) 355   (d) 400

53. A towel was 50 cm broad and 100 cm long. When bleached, it was found to have lost 20% of its length and 10% of its breadth. Find the percentage of decrease in area?
(a) 32   (b) 28   (c) 33   (d) 24

54. How many digits will be there to the right of the decimal point in the product of 95.75 and 0.02554?
(a) 5   (b) 6
(c) 7   (d) Insufficient data

55. A and B can do a piece of work in 30 days while B and C can do the same work in 24 days and C and A in 20 days. They all work for 10 days and B and C leave. How many days more will A take to finish the work?
(a) 12   (b) 18   (c) 20   (d) 22

56. A factory employs skilled workers, unskilled workers and clerks in the proportion 8 : 5 : 1 and the wages of a skilled worker as unskilled worker and a clerk are in the ratio 5 : 2 : 3. When 20 unskilled workers are employed, the total daily wages of all, amount to ₹ 318. What is the daily wages (in ₹) paid to each category of employees?
(a) 240, 57, 19   (b) 210, 70, 13
(c) 230, 65, 12   (d) 240, 60, 18

57. A cat takes 5 leaps for every 4 leaps of a dog, but 3 leaps of the dog are equal to 4 leaps of the cat. What is the ratio of the speed of the cat to that of the dog?
(a) 13:14   (b) 15:11   (c) 17:15   (d) 15:16

58. Ram, Shiv and Ganesh assemble for a contributory party. Ram brings 3 apples while Shiv brings 5. Since Ganesh did not bring any, he contributed ₹ 8. How many rupees should Ram and Shiv respectively get, assuming each of the three consumes an equal portion of the apples?
(a) 1, 7   (b) 2, 5   (c) 5, 3   (d) 2, 6

59. A man deposited a total sum of ₹ 88400 in the name of his two sons aged 19 and 17 yr so that at the age of 21, both will get equal amounts. If the money is invested at the rate of 10% compound interest per annum what are the shares of his two sons?
(a) ₹48200   (b) ₹48400
(c) ₹42600   (d) ₹44200

60. A train is moving at a speed of 132 km/h. If the length of the train is 110 m, how long will it take to cross a railway platform 165 m long?
(a) 6.0 s   (b) 7.5 s   (c) 7.0 s   (d) 8.5 s

61. The sum of the number of boys and girls in a school is 150. If the number of boys is x, then the number of girls becomes x% of the total number of students. How many boys are there in the school?
(a) 51   (b) 65   (c) 60   (d) 95

62. A scored 30% marks and failed by 15 marks. B scored 40% marks and obtained 35 marks more than those required to pass. what is the pass percentage?
(a) 33   (b) 40   (c) 34   (d) 48

63. A banker lent ₹ 6000 at 10% and ₹ 5000 at 12% at the same time and for same period of time. The banker received ₹ 2400 as total interest on both loans. Find the period for which the banker had lent the amount.
(a) 3 yr 6 months   (b) 3 yr
(c) 2 yr 6 months   (d) 2 yr

64. Two pipes A and B can fill a tank in 20 and 30 min, respectively. If both the pipes are used together, then how long will it take to fill the tank?
(a) 12 min   (b) 15 min   (c) 25 min   (d) 50 min

65. Speed of a boat in still water is 9 km/h and the speed of the stream is 1.5 km/h. A man rows to a place at a distance of 105 km and comes back to the starting point. What will be the total time taken by him?
(a) 16 h   (b) 18 h
(c) 24 h   (d) 28 h

Directions (Q. Nos. 66-70) *Each of these questions given below contains three elements. These elements may or may not have some inter-linkage. Each group of elements may fit into one of these diagrams at (a), (b), (c) and (d). You have to indicate the group of elements which correctly fits into the diagrams.*
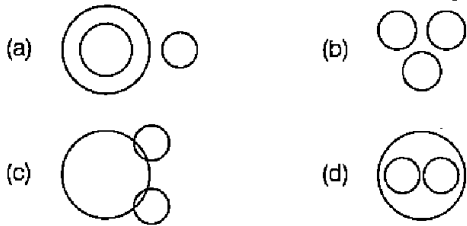
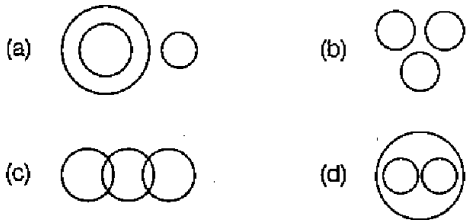**66.** Which of the following diagrams indicates the best relation between Judge, Thieves and Criminals?

(a)   (b)

(c)   (d)

67. Which of the following diagrams indicates the best relation between India, Haryana and World?
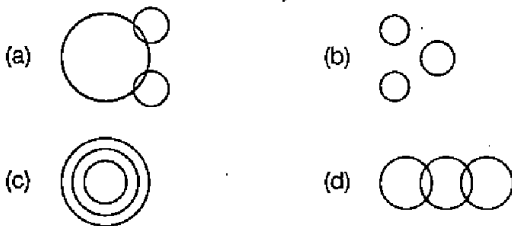
(a)   (b)

(c)   (d)

68. Which of the following diagrams indicates best relation between Pigeon, Bird and Dog?

(a) (b)

(c) (d)

69. Which of the following diagrams indicates the best relation between Earth, Sea and Sun?

(a) (b)

(c) (d)

70. Which of the following diagrams indicates the best relation between Hockey, Football and Cricket?

(a) (b)

(c) (d)

Directions (Q. Nos. 71-75) *In each of the following questions find out the alternative which will replace the question mark.*

71. Carbon : Diamond
Corundum : ....?........
(a) Garnet (b) Ruby (c) Pukhraj (d) Pearl

72. Architect : Building
Sculptor : ....?........
(a) Museum (b) Stone (c) Chisel (d) Statue

73. Eye : Myopia
Teeth : ....?........
(a) Pyorrhoea (b) Cataract (c) Trachoma (d) Eczema

74. Conference : Chairman
Newspaper : ....?........
(a) Reporter (b) Distributor (c) Printer (d) Editor

75. Safe : Secure
Protect : ....?........
(a) Lock (b) Sure (c) Guard (d) Conserve

Directions (Q.Nos. 76-80) *In each of the following questions, five words have been given out of which four are alike in some manner, while the fifth one is different. Choose the word which is different from the rest.*

76. (a) Potassium (b) Silicon
(c) Zirconium (d) Gallium

77. (a) Tea (b) Cinchona
(c) Rubber (d) Chalk

78. (a) Hangar (b) Platform
(c) Dock (d) Park

79. (a) Deck (b) Quay
(c) Stern (d) Bow

80. (a) Tall (b) Huge
(c) Thin (d) Sharp

Directions (Q. Nos. 81-85) *Choose the most appropriate answer.*

81. Which one of the following is always with 'Bargain'?
(a) Exchange (b) Sumptuousness
(c) Triviality (d) Eloquence

82. Which one of the following a 'Drama' must have?
(a) Actors (b) Story (c) Sets (d) Director

83. A boy is sitting at the back seat of a car. When the driver suddenly starts moving the car (in forward direction), the boy experiences a backward force?
(a) Always (b) Never (c) Often (d) Sometimes

84. Which one of the following is always found in 'Wonder'?
(a) Crowd (b) Lumber (c) Astonishment (d) Rustic

85. 'Disclosure' always involves
(a) Agents (b) Display (c) Exposition (d) Secrets

Directions (Q.Nos. 86-89) *Each of the following questions consists of five figures marked (1), (2), (3), (4) and (5) called the problem figures followed by four other figures marked (a), (b), (c) and (d) called the answer figures. Select a figure from amongst the answer figures which will continue the same series as established by the five problem figures.*
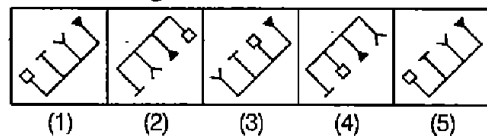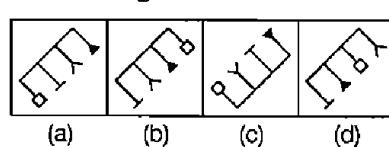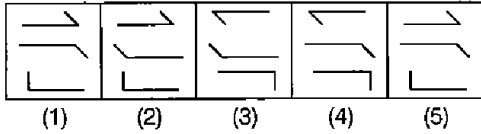
86. Problem Figures

(1) (2) (3) (4) (5)

Answer Figures

(a) (b) (c) (d)

87. Problem Figures

(1) (2) (3) (4) (5)

Answer Figures

(a) (b) (c) (d)
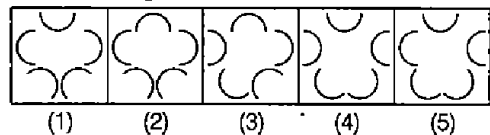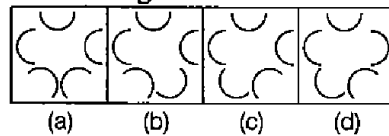
88. Problem Figures

(1)   (2)   (3)   (4)   (5)

Answer Figures

(a)   (b)   (c)   (d)
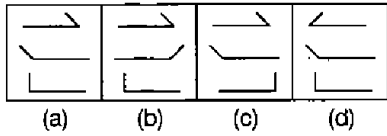
89. Problem Figures

(1)   (2)   (3)   (4)   (5)

Answer Figures

(a)   (b)   (c)   (d)
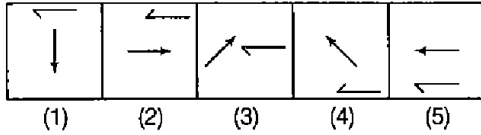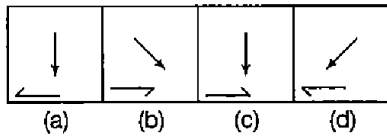
**Directions** (Q.Nos. 90-93) *Each of the following questions consists of two sets of figures. Figures (1), (2), (3) and (4) constitute the problem set while figures (a), (b), (c) and (d) constitute the answer set. There is a definite relationship between figures (1) and (2). Establish a similar relationship between figures (3) and (4) by selecting a suitable figure from the answer set that would replace the question mark (?) in figure (4).*

90. Problem Figures

(1)   (2)   (3)   (4)

Answer Figures

(a)   (b)   (c)   (d)

91. Problem Figures

(1)   (2)   (3)   (4)

Answer Figures

(a)   (b)   (c)   (d)
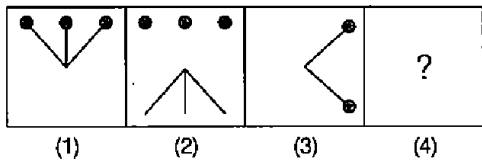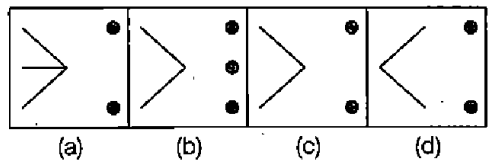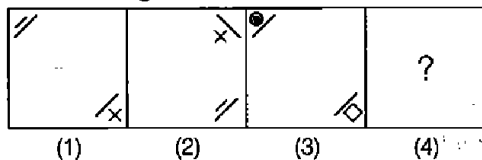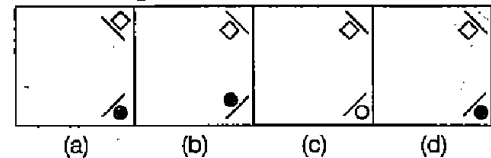
92. Problem Figures

(1)   (2)   (3)   (4)

Answer Figures

(a)   (b)   (c)   (d)
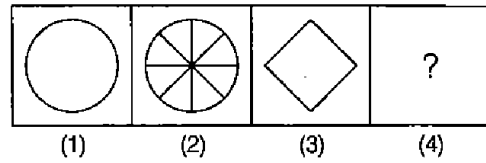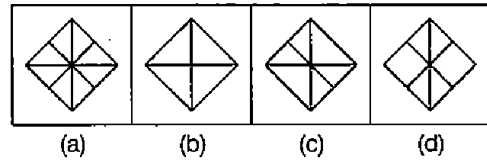
93. Problem Figures

(1)   (2)   (3)   (4)

Answer Figures

(a)   (b)   (c)   (d)
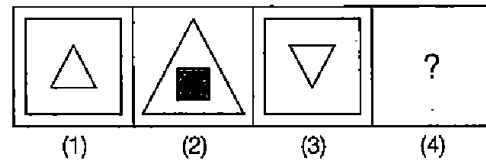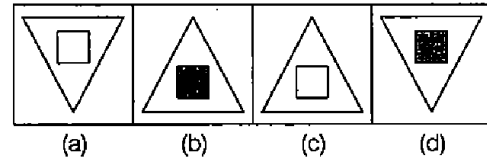
Directions (Q. Nos. 94-97) *In each problem, out of the four figures marked (a), (b), (c) and (d) three are similar in a certain manner. However, one figure is not like the other three. Choose the figure which is different from the rest.*

94.

(a)   (b)   (c)   (d)

95.

(a)   (b)   (c)   (d)

96.

(a)   (b)   (c)   (d)

97.

(a)   (b)   (c)   (d)

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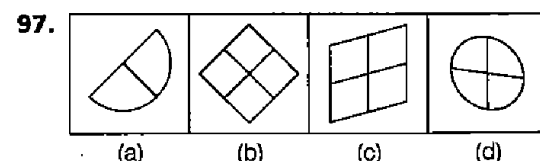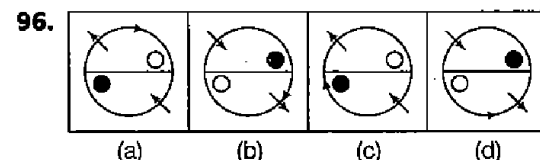
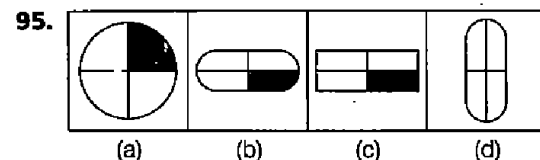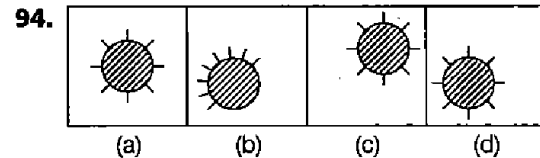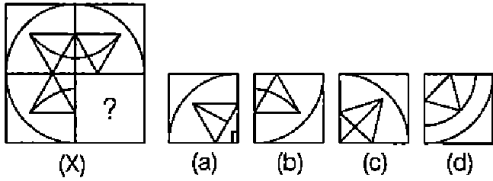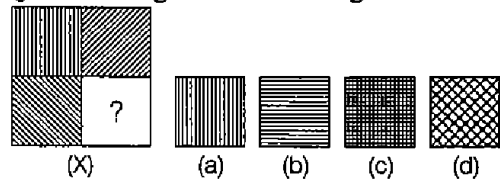**Directions** (Q. Nos. 98-100) *In each of the following questions, select a figure from amongst the four alternatives which when placed in the blank space of figure (X) would complete the pattern.*
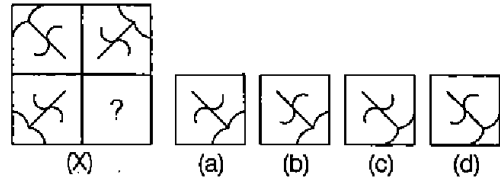
98. Question Figure Answer Figures

(X)   (a)   (b)   (c)   (d)

99. Question Figure Answer Figures

(X)   (a)   (b)   (c)   (d)

100. Question Figure Answer Figures

(X)   (a)   (b)   (c)   (d)

Answers

1. (b)	2. (c)	3. (a)	4. (a)	5. (b)	6. (c)	7. (c)	8. (d)	9. (a)	10. (b)
11. (c)	12. (a)	13. (d)	14. (c)	15. (a)	16. (b)	17. (a)	18. (a)	19. (b)	20. (a)
21. (b)	22. (a)	23. (b)	24. (c)	25. (d)	26. (c)	27. (d)	28. (b)	29. (a)	30. (d)
31. (a)	32. (d)	33. (a)	34. (c)	35. (d)	36. (b)	37. (a)	38. (c)	39. (c)	40. (d)
41. (a)	42. (d)	43. (c)	44. (b)	45. (d)	46. (a)	47. (c)	48. (a)	49. (c)	50. (b)
51. (b)	52. (d)	53. (b)	54. (b)	55. (b)	56. (d)	57. (d)	58. (a)	59. (b)	60. (b)
61. (c)	62. (a)	63. (d)	64. (a)	65. (c)	66. (b)	67. (d)	68. (a)	69. (a)	70. (b)
71. (b)	72. (d)	73. (a)	74. (d)	75. (c)	76. (a)	77. (d)	78. (d)	79. (d)	80. (d)
81. (d)	82. (b)	83. (a)	84. (c)	85. (d)	86. (a)	87. (b)	88. (a)	89. (a)	90. (c)
91. (b)	92. (a)	93. (d)	94. (b)	95. (d)	96. (d)	97. (a)	98. (b)	99. (b)	100. (d)

Hints and Solutions

1. Enormous means 'extremely large'.
2. Owe something to somebody is used.
3. Out of the given alternatives 'amount' fits the blank appropriately.
4. 'Labours and sacrifices' is the appropriate phrase.
5. Out of the given alternatives 'useful' fits the blank appropriately.
6. Alleviate means 'to make something less severe'.
7. Clearly stated in the last sentence of the passage.
8. The answer can be inferred from the last sentence of the passage.
9. The answer is clear after reading the passage.
10. Liberalise means 'to make something such as law or political or religious system less strict'.
11. Pragmatic means 'realistic'.
12. Pristine means 'fresh and clean'.
13. Intrepid means 'fearless'.
14. Angelical means 'related to angels'.
    Diabolical means 'morally bad and evil'.
15. Haughtiness means 'unfriendliness because you feel you are better then others'. Affability means 'friendliness and pleasantness'.
16. Bellow means 'to shout in a loud deep voice'.
17. Inequity means 'something that is unfair, injustice'.
18. Tickled pink means 'greatly pleased'.
19. Split one's side means 'to laugh a lot'.
20. Building castles in the air means 'making impossible plans'.

21. At the drop of a hat means 'willingly and immediately'.
22. The correctly spelt words 'Parentheses'.
23. The correctly spelt word is 'Versatile'.
24. The correctly spelt word is 'Haemorrhage'.
25. The correctly spelt word is 'Veterinarian'.
26. Airy-Fairy means 'not practical'.
27. Be given the axe means 'to lose job'.
28. To go like a bomb means 'to move fast'.
29. Bolt from the blue means 'unexpected'.
30. Gupta ruler Samudragupta is mentioned as great musician and issued coins of Veena type. He is mentioned as Kaviraja in Prayag Prasasti, by Harisena.
31. Lord Curzon divided Bengal in 1905, by following the divide and rule policy.
32. The Article 326 of the Indian Constitution grants universal adult suffrage, according to which, every adult citizen is entitled to cast his/her vote in all state elections unless that citizen is 'convicted of certain criminal offences' or 'deemed unsound of mind.' As per this concept, the right to vote is not restricted by caste, race sex, religion or financial status.
33. In day time, the algae is producing oxygen through photosynthesis, when enough oxygen is produced during the day, it gets trapped in bubbles and it can lift the clumps upto the surface. In night, this oxygen is consumed and CO_2 is produce, so algae sinks.