

Instructions for candidates

TIME ALLOTTED – 2HRS

1. Total No. of Questions – 100. Each Question is of three marks.
2. One mark will be deducted for every wrong answer.

NUMERICAL ABILITY

1. Which one of the following will completely divide $3^{31} + 3^{32} + 3^{33} + 3^{34}$
a) 150 b) 120
c) 155 d) 30
2. $999\frac{956}{999} \times 999$ is equal to:
a) 998997 b) 999897
c) 989997 d) 999987
3. By which number should 0.33 be multiplied so that product becomes 99?
a) 300 b) 320
c) 400 d) 360
4. The rowing speed of man in still water is 20 km/h. Going downstream, he moves at the rate of 25 km/h. The rate of stream is
a) 45 km/h b) 2.5 km/h
c) 5 km/h d) 10 km/h
5. A person can swim in still water at 4 km/h. If the speed of water is 2 km/h. How many hours will the man take to swim back against the current for 6 km.
a) 3 b) 4
c) $4\frac{1}{2}$ d) Insufficient data
6. The total number of students in a school is 819. If the number of girls in the school is 364, then what is the respective ratio of the total number of boys to the total number of girls in the school?
a) 26 : 25 b) 21 : 17
c) 18 : 13 d) 5 : 4
7. The ratio of the present ages of Sushma and Karishma is 6 : 7 respectively. The ratio of their ages 8 years hence would be 8 : 9 respectively. What would be the respective ratio of their ages after 12 years?
a) 17 : 19 b) 15 : 17
c) 9 : 10 d) 10 : 11
8. The simple interest on a certain sum for 2 years at the rate of 5% per annum is Rs.160. What would be the difference of compound interest and simple interest for the same period and at the same rate of interest?
a) Rs.2 b) Rs.10
c) Rs.6 d) Rs.4
9. What is the difference between CI and SI, if sum is Rs.10,000 for 3 years at the rate of 3%?
a) Rs.42 b) Rs.30
c) Rs.27.27 d) Rs.35
10. The average of 7 consecutive numbers is 20, the largest of these numbers is:
a) 24 b) 23
c) 22 d) 20
11. The average of odd numbers up to 100 is
a) 5.5 b) 50
c) 49.5 d) 49
12. If one number is 80% of the other and the sum of their square is 656, then the numbers are:
a) 4, 5 b) 8, 10
c) 16, 20 d) 14, 12
13. If the numerator of a fraction is increased by 120% and denominator is also increased by 350% then the fraction become $\frac{11}{27}$ what was fraction?
a) $\frac{4}{5}$ b) $\frac{5}{6}$
c) $\frac{6}{5}$ d) $\frac{5}{4}$
14. 21 binders can bind 1400 books in 15 days. How many binders will be required to bind 800 books in 20 days?
a) 7 b) 9
c) 12 d) 14
15. A does a work in 10 days and B does the same work in 15 days. In how many days they together will do the same work?
a) 5 days b) 6 days
c) 8 days d) 9 days
16. A train covers 180 km distance in 4 hour Another train covers the same distance in 1 hour less. What is the difference in the distance covered by these trains in one hour?
a) 45 km b) 9 km
c) 40 km d) 10 km

17. A train 150 meters long takes 20 seconds to cross a platform 45 meter long. Find the speed of train.
a) 30 km/ h b) 32 km/ h
c) 35 km/h d) 38 km/h
18. A car finishes a journey in ten hours at the speed of 80 km/hr. If the same distance is to be covered in eight hours how much more speed does the car have to gain?
a) 8 km/hr b) 10 km/hr
c) 12 km/hr d) None of theses
19. A person X sold an Item to Y at 40% loss, then Y sold it to third person Z at 40% profit and finally Z sold it back to X at 40% profit. In this whole process what is the percentage loss or profit of X?
a) 70% b) 62.5%
c) 57.6% d) 55%
20. If Joel sells an article at $\frac{4}{5}$ th of its marked price and secures a profit of 20%, what will be the profit or loss percentage if he sells it at the actual marked price?
a) 45% b) 60%
c) 50% d) 56%
21. The average of 50 numbers is 38. If two numbers namely 45 and 55 are discarded. The average of the remaining numbers is?
a) 35 b) 32.5
c) 37.5 d) 36
22. Find out the HCF of $a \times m \times r$ and $b \times m \times 2 \times r$
a) ma b) mr
c) 2 mr d) ambr2
23. On simplification $\frac{(2.644)^2 - (2.356)^2}{0.288} = ?$
a) 6.91 b) 5
c) 6.81 d) 7.1
24. A train is travelling at the rate of 45 km/hr. How many seconds it will take to cover a distance of $\frac{4}{5}$ km?
a) 36 sec b) 64 sec
c) 90 sec d) 120 sec
25. Working 5 hours a day, A can complete a piece of work in 8 days and working 6 hours a day, B can complete the same work in 10 days .working 8 hours a day. They both can complete the work in?
a) 3 days b) 4 days
c) 4.5 days d) 5.4 days

REASONING AND MILITARY APTITUDE TEST

- Direction- (26-30) Which is the one that does not belong to the same group?**
26. a) nephrology b) entomology
c) astrology d) mycology
27. a) Rectangle b) Triangle
c) Square d) Circle
28. Which one of following is wrongly matched?
a) Red fort, Delhi
b) Great Wall of China, China
c) Humayun tomb, Delhi
d) White House, Moscow
29. a) Table b) Chair
c) Cupboard d) Computer
30. army, corps, brigade, division, company
a) army b) corps
c) brigade d) company
- Direction-(31-35) Find the similar relation**
31. Whale : Mammal :: Turtle : ?
a) Amphibian b) Reptile
c) Fish d) Mollusk
32. Optimist : Cheerful :: Pessimist : ?
a) Petty b) Selfish
c) Gloomy d) Mean
33. King : Palace :: Eskimo : ?
a) Caravan b) Asylum
c) Monastery d) Igloo
34. Restaurant : Menu :: ?
a) Library : Catalogue
b) Journal : Newspaper
c) Book : Encyclopedia
d) College : Account
35. Moon : Satellite :: Earth : ?
a) Sun b) Planet
c) Solar system d) Round
36. Introducing Reena, Monika said, "She is the only daughter of my father's only daughter." How is Monika related to Reena?
a) Mother b) Niece
c) Cousin d) None of these
37. Meena correctly remembers that her father's birthday is after 18th may but before 22nd May. Her brother correctly remembers that their father's birthday is before 24th May but after 20th May. On which date in May was definitely their's father's birthday?

- a) 20th b) 19th
 c) 18th
 d) Cannot be determined
 e) None of these

38. m _ l m _ l m m _ l

- a) mllml b) mlml
 c) llmlm d) mmlml

39. **Statements:** All roads are trees. No tree is soap.

Conclusion:

- I. No soap is road.
 II. Some trees are roads.
 III. No road is soap.

- a) Only I b) Only II
 c) Only III d) None follows

40. **Statements:** Some hotels are bricks. All bananas are bricks.

Conclusion:


- I. Some bananas are hotels.
 II. Some bricks are hotels.
 III. No banana is hotel.

- a) Only I and II b) Only II and III
 c) Only I follows
 d) Only II either I or III

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

- a)  b) 
 c)  d) 

42. Which of the following diagrams indicates the best relation between Doctors, Human Beings and Married People?

- a)  b) 
 c)  d) 

43. Which of the following diagrams indicates the best relation Children, Naughty and Studious?

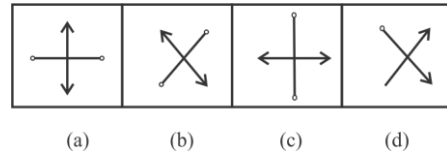
- a)  b) 
 c)  d) 

44. Which of the following diagrams indicates the best relation between Thief, Criminal and Police?

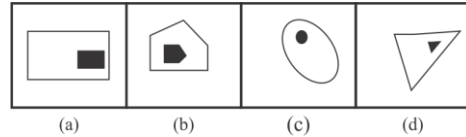
- a)  b) 
 c)  d) 

Direction (20-21) Find the odd one out.

45.

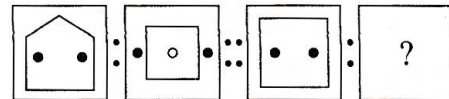


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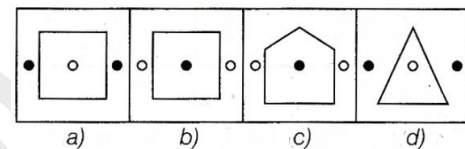


47. Find the similar relation

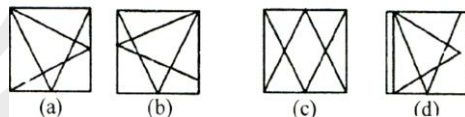
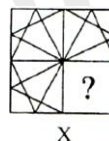
Question Figures



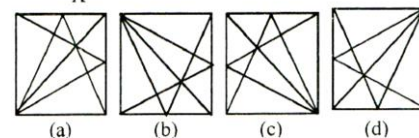
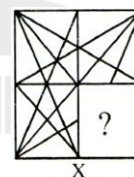
Answer Figures



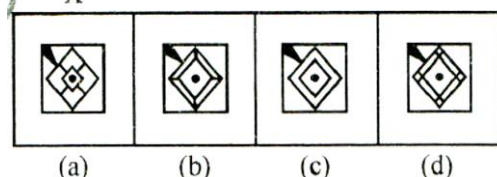
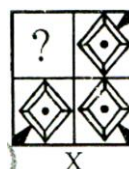
48.



49.

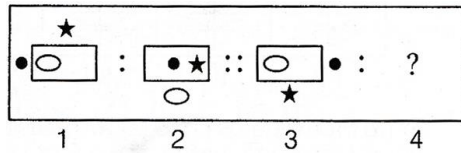


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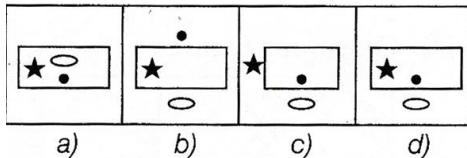


Directions (51-52): Complete the series of figures by selecting the correct answer figure from given responses.

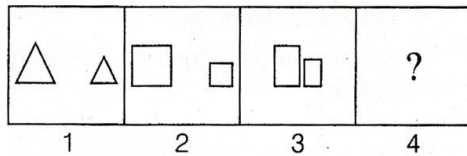
51. Question Figures



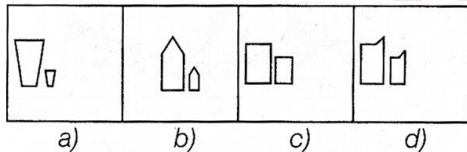
Answer Figures



52. Question Figures

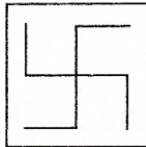


Answer Figures

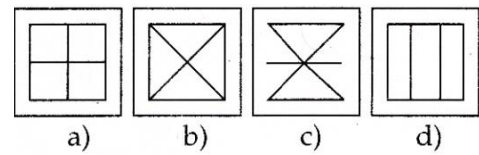


53. From the given answer figures, select the one in which the question figure is hidden/embedded.

Question Figure

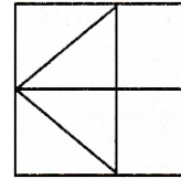


Answer Figures

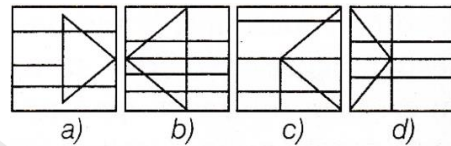


54. From the given answer figures, select the one in which the question figure is hidden/embedded.

Question Figure

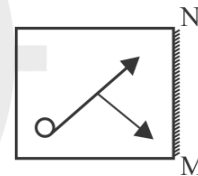


Answer Figures

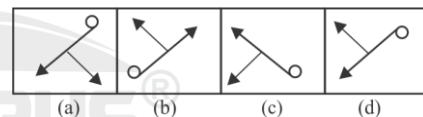


55. What will be the mirror image of the given figure below?

Problem Figure



Answer Figures



ENGLISH LANGUAGE

DIRECTION (Qs. 56-60): Choose the synonyms/ antonyms of the given words.

56. Antonym of CONFIDENT

- a) worried b) pessimistic
c) diffident d) depressed

57. Antonym of PROFESSIONAL

- a) novice b) amateur
c) dabbler d) apprentice

58. Antonym of FAMOUS

- a) obscure b) eminent
c) lenient d) fabulous

59. Synonym of SUCCESSIVE

- a) rapid b) victorious
c) beneficent d) consecutive

60. Synonym of PRIORITY

- a) urgency b) protocol
c) precedence d) necessity

DIRECTION (Qs.61-65): Choose the most appropriate options that explains the correct meaning of the following idiom / phrase:

61. The saint's life was an open book.

- a) an uncomplicated one
b) one that held no secrets
c) an example to all
d) an interesting biography

62. It was a red-letter day for India

- a) a colourful day
b) fatal day
c) happy and significant day

- d) hapless day
63. The foolish young man soon made ducks and drakes of the vast property his father left him.

a) squandered b) distributed
c) spent d) gave in charity

64. The student is on the verge of breakdown.

a) on the brink of
b) at the outset of
c) in the midst of
d) at the risk of

65. At snail's pace

a) very slowly
b) to walk like a snail
c) to lack interest in work
d) in methodical manner

DIRECTION (Qs. 66-70): In the following question, some part of the sentence may have errors. Find out which part of the sentence has an error and select the appropriate option. If a sentence is free from error, select 'No Error'

66. Your success in the IAS examinations depends not only on (a)/ what papers you have selected (b)/ but on how you have written them. (c)/ No error. (d)
67. I have passed (a)/ the examination (b)/ two years ago (c)/. No error. (d)
68. Of the billions of stars in the galaxy, (a)/ how much are (b)/ suitable for life (c)/?. No error. (d)
69. A milk (a)/ can provide protein (b)/ for a nutritionally balanced diet. (c)/ No error (d).
70. One of my desires (a)/ are to become (b)/ a doctor (c)/. No error. (d)

DIRECTION (Qs. 71-73.): Fill up the blanks with the given options

71. My book is the new one; _____ is the torn one.

a) your b) the book of you
c) yours d) the book your

72. If I _____ a bird, I would fly.

a) is b) are
c) were d) was

73. The greater the demand, _____ the price.

a) higher b) high
c) the higher d) the high

DIRECTION(Qs. 74-78): Read the passage carefully and choose the best answer to each question out of the four alternatives.

For any activity, discipline is the keyword. It should begin with self, then be extended to the family, neighbours, environment, workplace, society and the nation at large. It is from society that inspiration is drawn. Systems and

institutions should provide the inspiration to society through performance which in turn will provide leaders capable of rebuilding and restructuring the society into a strong nation. The nationalists' spirit then becomes infectious.

74. What is the keyword for Activity according to the passage?

a) Active Discipline
b) Key Discipline
c) Self Discipline
d) Discipline

75. According to the passage, Discipline should begin

a) with self
b) with self, family and neighbours
c) with self, family, neighbours and environment
d) with self, family, workplace, society

76. According to the passage, where do we draw inspiration from?

a) Society
b) Society and nation
c) Environment
d) Nothing in particular

77. According to the passage, a good leader should be capable of

a) rebuilding a nation the way he/she likes.
b) rebuilding and restructuring society into a strong nation.
c) building a national consensus.
d) rebuilding and structuring a nation.

78. What is the meaning of the word infectious in the passage?

a) dangerous
b) spreading to everyone
c) spreading to everyone by germs
d) give disease

DIRECTION (Qs. 79-80): In the following passage some of the words have been left out. Read the passage carefully and choose the correct out of four alternatives.

Earth, our home, is the third planet from the sun. It's the only _____ (79) known to have an atmosphere containing free oxygen, oceans of water on its surface and, of course, life.

The fifth-largest planet of the Solar system is the Earth. It is smaller _____ (80) the four gas giants — Jupiter, Saturn, Uranus and Neptune — but larger than the three other rocky planets, Mercury, Mars and Venus.

79. a) Planet b) Moon
c) Satellite d) Surface
80. a) For b) Then
c) Than d) There

GENERAL AWARENESS

81. Which among the following is not a correct pair?

	Monuments	Rulers
a)	Ellora	Rastrakuta
b)	Mahabalipuram	Pallava
c)	Khajuraho	Chandellas
d)	Elephanta	Mauyura

82. Which among the following Kavya of Sanskrit, deal with court intrigues & access to power of Chandragupta Maurya?

- a) Mrichhakatika b) Ritusamhara
c) Kumarasambhava d) Mudrarakshasa

83. On which of the following systems of Hindu Philosophy, Shankaracharya wrote commentary in 9th century AD?

- a) Sankhya b) Vaisheshika
c) Yoga d) Uttarmimansa

84. Who among the following Bhakti Saint emphasised the essential oneness of all religion by describing Hindus and Muslims 'as pots of the same clay'?

- a) Kabir b) Tulsidas
c) Ramananda d) Raidasa

85. Which of the following leader was one of the founding member of the Muslim League?

- a) Muhammad Ali Jinnah
b) Shaukat Ali
c) Nawab Salimullah
d) Aga Khan

86. How many number of members are nominated by the President to the Rajya sabha?

- a) 20 b) 18
c) 12 d) 15

87. Among which of the followings are appointed by the Governor?

- a) Advocate General
b) Chief secretary of the State
c) Vice-chancellors of universities
d) All the above

88. Financial emergency is imposed under article?

- a) Article 354 b) Article 365
c) Article 367 d) Article 360

89. Which of the following longitudes is the standard meridian of India?

- a) 69°30'E b) 75°30'E
c) 82°30'E d) 90°30'E

90. Which of the following places receives the highest rainfall in the world?

- a) Silchar b) Cherrapunji
c) Mawsynram d) Guwahati

91. What is the local name of the wind blowing in the

northern plains during summers ?

- a) Kaal Baisakhi b) Trade Winds
c) Loo d) None of the above

92. Which of the following lake is a salt water lake?

- a) Sambhar Lake b) Dal Lake
c) Wular Lake d) Chilka Lake

93. On which river Ranjit Sagar Dam is built?

- a) Satluj b) Beas
c) Ravi d) Narmada

94. A solid ball of metal has a spherical cavity inside it. When the ball is heated the volume of the cavity will

- a) Increase
b) Decrease
c) Remain unaffected
d) Have its shape changed

95. Why does rain drops acquire spherical shape?

- a) Friction b) Surface tension
c) Viscosity d) Elasticity

96. The body of a simple organism breaking up of into two or more pieces on maturing, each of which subsequently grows to form a complete new organism, is called:

- a) Binary fission
b) Vegetative propagation
c) Fragmentation
d) Budding

97. When new plants are obtained from the parts of old plants, without the help of any reproductive organs, it is called:

- a) Multiple fission
b) Fragmentation
c) Spore formation
d) Vegetative propagation

98. India's first Centre for Wetland Conservation and Management has been set up in which Indian city?

- a) Cochin b) Chennai
c) Vishakhapatnam d) Guwahati

99. The Commonwealth Human Rights Initiative (CHRI) is an international non-governmental organisation based in which country?

- a) Italy b) India
c) United Kingdom d) France

100. Vaccination against which disease was conducted recently as a National Vaccination Day?

- a) Hepatitis b) Polio
c) Pneumonia d) BCG

ANSWER KEY

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

