

SSC Combined Graduate Level (CGL)

PART-A: GENERAL INTELLIGENCE & REASONING

Directions (Qs. 1-3): *Select the related word/Letters/numbers from the alternatives.*

1. Pig : Sty :: Dog ; ?

- | | |
|------------|------------|
| (a) Burrow | (b) Hives |
| (c) Shed | (d) Kennel |

2. BDGK : ACFJ :: ? : DFIM

- | | |
|----------|----------|
| (a) FKGH | (b) EGIN |
| (c) EGIK | (d) FGHI |

3. 01 : 36 :: 02 : ?

- | | | | |
|--------|--------|--------|--------|
| (a) 48 | (b) 49 | (c) 69 | (d) 70 |
|--------|--------|--------|--------|

Directions (Qs. 4-6): *Find the Odd Word/Letters/Numbers from the given alternatives*

4. (a) House

(c) Hut

(b) Stable

(d) Cottage

5. (a) BDGK

(c) NPSW

(b) JLOS

(d) MORU

6. (a) 484

(c) 625

(b) 529

(d) 566

7. Amongst the given responses choose the meaningful logical series.

1. College

3. Child

5. Youth

(a) 2,4,3,1,5

(c) 2,4,3,5,1

2 Infant

4. School

(b) 2,3,4,1,5

(d) 2,3,4,5,1

Directions (Qs. 8-9): *A series is given, with one term missing. Choose amongst the given responses choose the meaningful one.*

8. CUS, DVT, EWU, _____

(a) FXV

(c) XFV

(b) VXF

(d) XVF

9. 206, 221, 251, 296, ?, 431

(a) 326

(b) 356

(c) 311

(d) 341

10. If A is the mother of B and K. D is the husband of A. E is the son of D's brother. What is the relation of A with E
 (a) Mother in law (b) Sister in law
 (c) Aunt (d) Sister
11. Kathir is senior to Ganesh. Ganesh is senior to Apparu. Apparu is junior to Raju. Raju is junior to Ganesh. Who is the most senior?
 (a) Ganesh (b) Raju
 (c) Kathir (d) Apparu
12. Select the word which cannot be formed using the letters of the given word
 REJUVENATION
 (a) JUTE (b) NATION
 (c) REVISION (d) NATIVE
13. IFA = 1, HAT = 29, then PAN = ?
 (a) 21 (b) 31 (c) 41 (d) 28
14. If "x" means "addition", "-" means "division", "/" means "subtraction" and "+" means "multiplication", then which of the equation is correct
 (a) $25+10-5/10\times 3=43$ (b) $25-10\times 5+10/3=72$
 (c) $25\times 10/5+10-3=12$ (d) $25/10+5\times 10/3=18$
15. In this question, some equations are solved on the basis of a certain system. On the same basis find out the correct answer from amongst the four alternatives for the unsolved equation.
 $53 - 34 = 5334$
 $65 - 46 = 6456$
 $75 - 24 = ?$
 (a) 7542 (b) 7524 (c) 7452 (d) 7254
16. Select the missing images from the given responses:

6	5	26
4	7	32
?	9	44

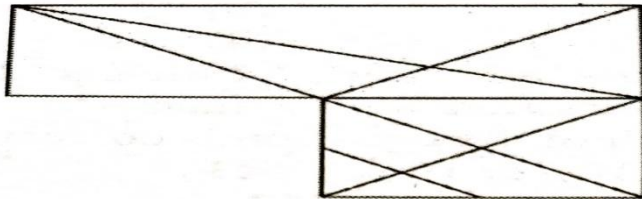
 (a) 8 (b) 31 (c) 32 (d) 36
17. Deepak starts walking straight towards East. After walking 75 metres, he turns to the left and walks 25 metres straight. Again he turns to the left, walks a distance of 40 metres straight, again he turns to the left and walks a distance of 25 metres. How far is he from the starting point?
 (a) 35m (b) 50m (c) 115m (d) 140m
18. Consider the given statement's to be true and decide which of the given conclusions/assumptions can definitely be drawn from the given statement.
Statements: 1. All fish are tortoise.
 2. No tortoise is a crocodile.

Conclusion: I. No crocodile is a fish.

II. No fish is a crocodile

- (a) Only conclusion I follows
- (b) Only conclusion II follows
- (c) Both conclusions I & II follows
- (d) Neither conclusion I nor II follows

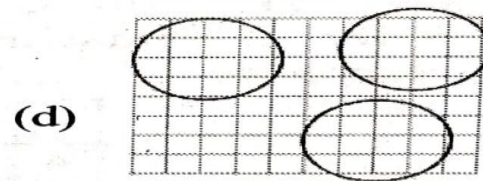
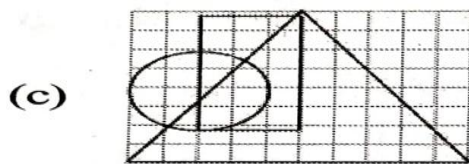
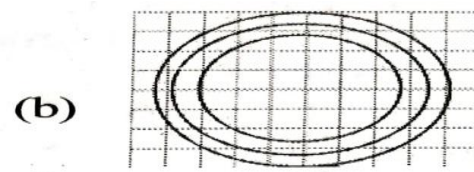
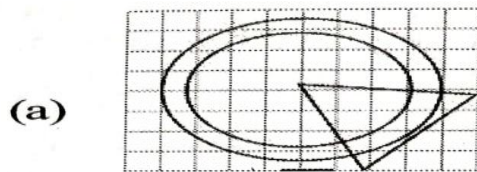
19. How many triangles can be found out from the following figure:



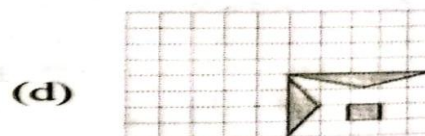
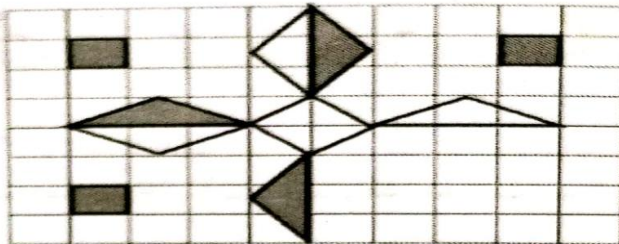
- (a) 17
- (b) 21
- (c) 24
- (d) 25

20. Identify the diagram that best represents the relationship among classes given below:

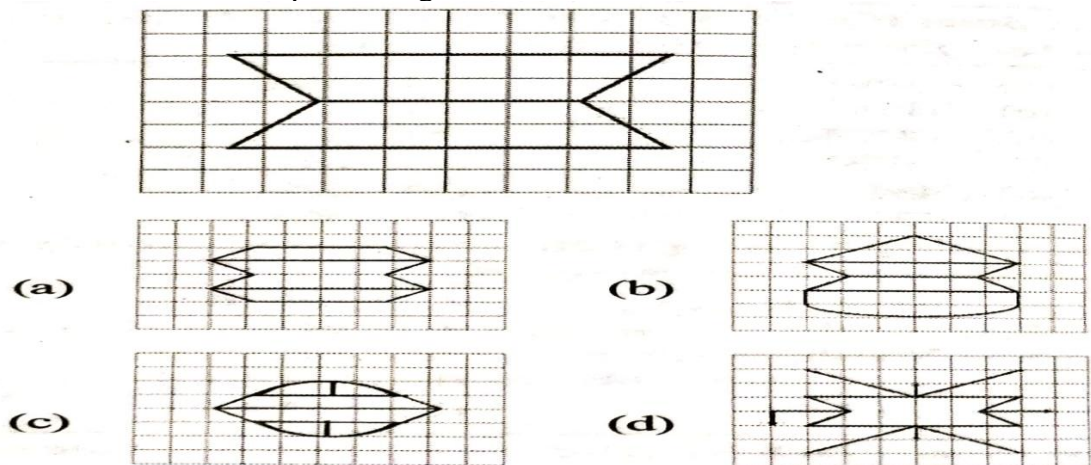
Universe, Stars, Sun



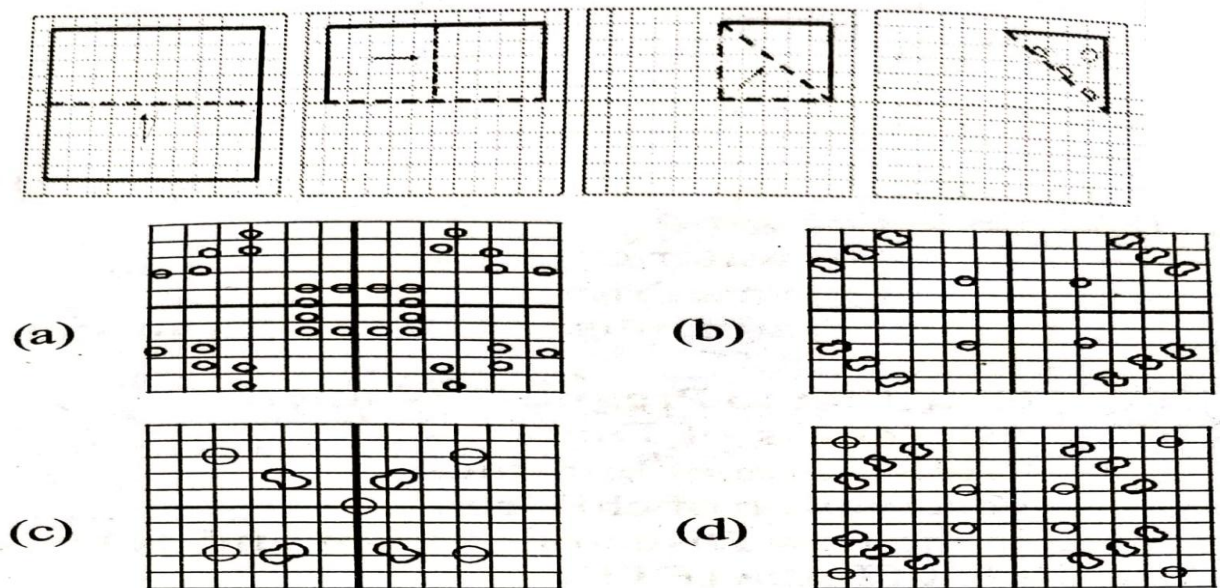
21. Which answer figure will complete the pattern in the question figure?



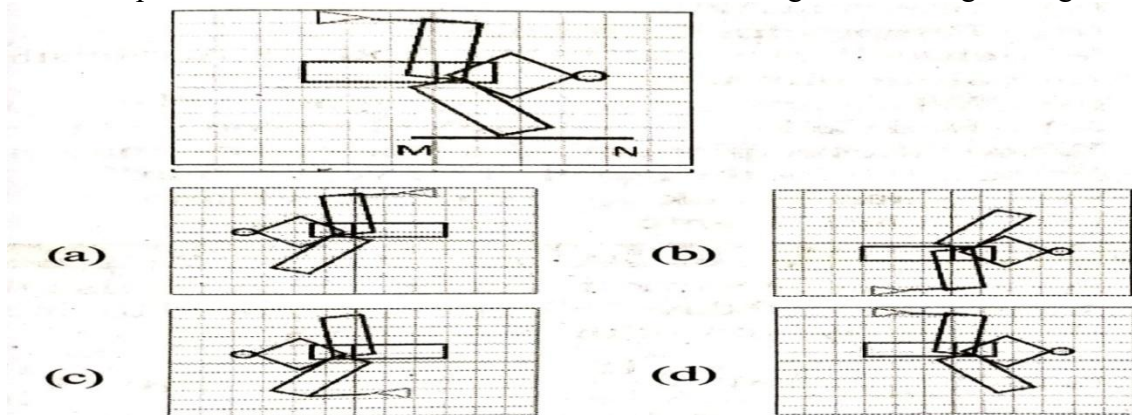
22. Select the one in which the question figure is hidden/embedded.



23. A piece of paper is folded and cut. From the figures given, indicate how it will appear when opened



24. Mirror is placed on the line MN, then which of the answer figures is the right image?



25. In the question, a word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in two matrices given below. The columns and rows of Matrix I are numbered from 0 to 4 and that of Matrix II are numbered from 5 to 9. A letter from this matrix can be represented first by its row and next by its column ex "A" can be represented by 03,10,etc and "P" can be represented by 55, 67, etc. Similarly, you have to identify the set for the word "REST"

MATRIX I						MATRIX II					
	0	1	2	3	4		5	6	7	8	9
0	L	N	E	A	C	5	P	T	O	R	S
1	A	C	L	N	E	6	R	S	P	T	O
2	N	E	A	C	L	7	T	O	R	S	P
3	C	L	N	E	A	8	S	P	T	O	R
4	E	A	C	L	N	9	O	R	S	P	T

- (a) 96,33,44,87
(b) 58,21,85,75
(c) 89,40,31,56
(d) 77,10,55,68

PART-B: GENERAL AWARENESS

26. CENVAT is related to which of the following?
 (a) Sales Tax
 (b) Excise Duty
 (c) Custom Duty
 (d) Service Tax
27. Malthusian theory is associated with which of the following?
 (a) Poverty
 (b) Employment
 (c) Diseases
 (d) Population
28. An amendment of the constitution may be initiated.
 (a) by introduction by the President of India.
 (b) by introduction of a Bill in Rajya Sabha.
 (c) by the Governors of States.
 (d) by the introduction of a bill in either House of Parliament.
29. Kamarup is an ancient name of which region of India?
 (a) Bihar
 (b) Rajasthan
 (c) Karnataka
 (d) Assam

30. Which is the parameter for the economic development?
- (a) Per capita monetary income
 - (b) National income
 - (c) Per capita rural income
 - (d) Population
31. Equinox occurs when the sun is vertically above
- (a) Tropic of Capricorn
 - (b) Tropic of Cancer
 - (c) Poles
 - (d) Equator
32. Which battle led to the downfall of the Vijayanagar empire?
- (a) Battle of Takkolam
 - (b) Battle of Talikota
 - (c) Battle of Kanwah
 - (d) Battle of Panipat
33. The antibiotic penicillin is obtained from which of the following?
- (a) synthetic process
 - (b) a bacterium
 - (c) fungus
 - (d) virus infected cells
34. Among the world oceans, which ocean is having the widest continental shelf?
- (a) Antarctic ocean
 - (b) Arctic Ocean
 - (c) Indian Ocean
 - (d) Atlantic ocean
35. Data in database at a particular point of time is called as?
- (a) Intension
 - (b) Extension
 - (c) Back up
 - (d) Application
36. Which is largest peninsular river in India?
- (a) Krishna
 - (b) Godavari
 - (c) Cauvery
 - (d) Mahanadi
37. Red soil is normally found in India in which regions?
- (a) Eastern Region only
 - (b) Southern Region only
 - (c) Eastern & Southern part of the Deccan Plateau
 - (d) None of these
38. Who introduced Mansabdari system in India?
- (a) Babur
 - (b) Humayun
 - (c) Akbar
 - (d) Jahangir
39. Limestone is a raw material used by which industry?
- (a) Aluminium
 - (b) Fertilizers
 - (c) Cement
 - (d) Petrochemicals
40. The Directive Principles of State Policy has been adopted from which Constitution?
- (a) U.S. Constitution
 - (b) British Constitution

(c) Irish Constitution

(d) French Constitution

41. Which of the following is indicated by the colour of a star?

(a) weight

(b) distance

(c) temperature

(d) size

42. Atomic number of an atom gives the number of which of the following?

(a) electrons

(b) protons

(c) neutrons

(d) neutrons and protons

43. DPT vaccine is categorized as which of the following?

(a) Anti viral vaccine

(b) Anti protozoan vaccine

(c) Anti rickettsial vaccine

(d) A combined vaccine

44. Which is the highest quality of hard coal?

(a) Anthracite

(b) Bituminous

(c) Lignite

(d) Peat

45. For which one of the following, 'Diodes' are generally used for?

(a) Rectification

(b) Amplification

(c) Modulation

(d) Filtration

46. An anemometer measures which of the following?

(a) Speed of light

(b) Speed of wind

(c) Speed of water current

(d) Speed of satellites

47. 'Mission Indradhanush' Campaign in India is associated with?

(a) Nutrition to Pregnant Women

(b) Awareness of Diabetes

(c) Eradication of blindness

(d) Vaccination of children

48. Who is the new Director of Film and Television Institute of India (FTII)?

(a) Prashant Pathrabe

(b) Amol Palekar

(c) Shabana Azmi

(d) Bhupendra Kainthola

49. Which cell disorder in our body is responsible for colour blindness?

(a) WBC

(b) Cone cell

(c) Rod Cell

(d) Neuron

50. Who is the recipient of Man Booker International Prize 2016 for the novel "The Vegetarian"?

(a) Orhan Pamuk

(b) Han Kang

(c) Elena Ferrante

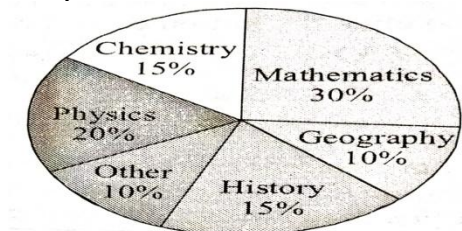
(d) Tonkin

PART-C: QUANTITATIVE APTITUDE

51. A can finish a work in 7 days. B can finish the same work in 9 days. The days required to finish the work by both of them together.
(a) $1\frac{15}{16}$ (b) $2\frac{15}{16}$
(c) $3\frac{15}{16}$ (d) $4\frac{15}{16}$
52. If the successive discounts be 20%, 10% and 5%, then the single equivalent rate of discount is
(a) 31.6% (b) 31.5% (c) 31% (d) 31.4%
53. The ratio of number of boys and girls in a school of 720 students is 7:5. How many more girls should be admitted to make the ratio 1:17
(a) 90 (b) 120 (c) 220 (d) 240
54. The selling price of 6 bananas is equal to the cost price of 8 bananas. Then the percentage of profit is
(a) 20 (b) $33\frac{1}{3}$ (c) 25 (d) 30
55. A basket contains 300 mangoes. 75 mangoes were distributed among some students. Find the percentage of mangoes left in the basket
(a) 70% (b) 72% (c) 76% (d) 75%
56. A man goes to a place on bicycle at speed of 16 km/hr and comes back at lower speed. If The average speed is 6.4 km/hr in total, then the return speed (in km/hr) is
(a) 10 (b) 8 (c) 6 (d) 4
57. The simple interest on a certain sum of money at the rate of 5% per annum for 8 years is Rs. 840. Rate of interest for which the same amount of interest can be received on the same sum after 5 years is
(a) 7% (b) 8% (c) 9% (d) 10%
58. If $C + \frac{1}{C} = 3$ then the value of $(C - \frac{1}{C})^7 + \frac{1}{C^7}$ is
(a) 2 (b) 0 (c) 3 (d) 1
59. If $2x + \frac{1}{4x} = 1$ then the value of $x^2 + \frac{1}{64x^3}$ is
(a) 0 (b) 1 (c) $\frac{1}{4}$ (d) 2
60. O is the orthocentre of $\triangle ABC$, and if $\angle BOC = 110^\circ$ then $\angle BAC$ will be
(a) 110° (b) 70°
(c) 100° (d) 90°
61. BE and CF are two altitudes of a triangle ABC. If AB=6cm, AC=5 and CF=4cm then the length of BE is
(a) 4.8cm (b) 7.5cm (c) 3.33 cm (d) 5.5 cm

62. The circular measure of the included angle formed by the hour hand and minute hand of a clock at 3 PM will be
 (a) $\pi/4$ (b) $\pi/3$ (c) $5\pi/12$ (d) $\pi/2$
63. The value of $(2.3)^3 + 0.027/(2.3)^2 - 0.69 + 0.09$
 (a) 2 (b) 2.27 (c) 2.33 (d) 2.6
64. The average of 100 observations was calculated as 35. It was found later, that one of the observation was misread as 83 instead of 53. The correct average is:
 (a) 32.7 (b) 34.7 (c) 35.7 (d) 36.7
65. If $\sqrt{x} - \sqrt{y} = 1$, $\sqrt{x} + \sqrt{y} = 17$ then $\sqrt{xy} = ?$
 (a) $\sqrt{72}$ (b) 72 (c) 32 (d) 24
66. If $x = \sqrt{3} + 1/\sqrt{3}$, then the value of $(x - \sqrt{126}/\sqrt{42})(x - 1/(x - 2\sqrt{3})/3)$ is
 (a) $5(\sqrt{3}/6)$ (b) $2\sqrt{3}/3$
 (c) $5/6$ (d) $2/3$
67. In a $\triangle ABC$, BC is extended upto D: $\angle ACD = 120^\circ$, $\angle B = 1/2\angle A$. Then $\angle A$ is
 (a) 60° (b) 75° (c) 80° (d) 90°
68. O is the centre of a circle and AB is the tangent to it touching at B. If $OB = 3$ cm and $OA = 5$ cm then the measure of AB in cm is
 (a) $\sqrt{34}$ (b) 2 (c) 8 (d) 4
69. If $\sin 31^\circ = x/y$. The value of $\sec 31^\circ - \sin 59^\circ$ is
 (a) $x^2/\sqrt{(y^2 - x^2)}$ (b) $-(x^2)/y\sqrt{(y^2 - x^2)}$
 (c) $-(y^2)/(\sqrt{y^2 - x^2})$ (d) $-x^2/y\sqrt{(y^2 - x^2)}$
70. The area of the largest sphere (in cm^3 that can be drawn inside a square of side 18 cm is
 (a) 972π (b) 11664π
 (c) 36π (d) 288π
71. A tower is 50 meters high. Its shadow is x metres shorter when the sun's altitude is 45° than when it is 30° . The value of x in metres is
 (a) $50\sqrt{3}$ (b) $50(\sqrt{3} - 1)$
 (c) $50(\sqrt{3} + 1)$ (d) 50

Directions (Qs. 72-75): The following piechart shows the study time of different subjects of a student in a day. Study the pie chart and answer the following questions.



72. The time spent to study history and chemistry is 4 hours 30 minutes, Then the student studied physics for
(a) 1 hour 30 min (b) 2.9 hour (approx.)
(c) 2 hours (d) 3 hours
73. If the student studied chemistry for 3 hours, then he/she studied geography for
(a) 1 hour (b) 2 hours
(c) 1 hour 30 minutes (d) 2 hour 30 minutes
74. If the student studied 10 hours in a day, then he/she studied mathematics for.
(a) 3 hour (b) 10/3 hour
(c) 1/3 hour (d) 3/10 hour
75. Instead of 10%, if the student spends 15% to study other subjects and the time is taken from the time scheduled to study mathematics and if he/she used to study 20 hours per day, then the difference of time for studying mathematics per day is
(a) 30 minutes (b) 45 minutes
(c) 1 hour (d) 1 hour 30 minutes

PART-D ENGLISH COMPREHENSION

76. In the following question, out of the four alternatives, choose the word which best expresses the meaning of the given word and click the button corresponding to it.

CONSCRIPT

- (a) DRAFT (b) DRAW
(c) ENCIRCLE (d) SUBSCRIBE

77. In the following question, out of the four alternatives, choose the word which is opposite in meaning to the given word and click the button corresponding to it.

CAPTIVITY

- (a) SLAVERY (b) PERMISSION
(c) FREEDOM (d) LIMITATION

78. Four words are given, out of which only one word is spelt correctly. Choose the correctly spelt word and click the button corresponding to it.

- (a) Vivacious (b) Vivascious
(c) Vivasious (d) Vivacouse

Directions (79-81): In the following questions, one part of the sentence may have an error. Find out which part of the sentence has an error and click the button corresponding to it. If the sentence is free from error, click the "No error" option.

79. The job for drawing water (A)/ from the village well is usually (B)/carried out by the women and young girls. (C)/No Error (D).
(a) A (b) B (c) C (d) D

80. I remember him as (A)/someone who was a lot nicer (B)/than circumstances warranted.
(C)/No Error (D)
(a) A (b) B (c) C (d) D

81. Several days passed before (A) / Jeff worked over enough (B)/courage to return to the house
(C)/No Error (D)
(a) A (b) B (c) C (d) D

Directions (Qs. 82-83): *The sentences given with blanks are to be filled with an appropriate word(s). Four alternatives are suggested for each question. For each question, choose the correct alternative and click the button corresponding to it.*

82. The starving man _____ able to walk
(a) can barely (b) were barely
(c) are barely (d) was barely

83. The new railway counter at Dwarka should _____ all travellers.
(a) benefit (b) reward
(c) reserve (d) provide

84. My younger brother _____ my grandfather.
(a) looks on (b) looks after
(c) looks to (d) looks of

Directions (Qs. 85-87): *In each of the questions, four alternatives are given for the Idiom/Phrase. Choose the alternative which best expresses the meaning of the Idiom/Phrase and click the button corresponding to it.*

85. To keep in abeyance
(a) In a state of permanence
(b) In a state of emergency
(c) In a state of suspension
(d) In a state of revision

86. To be in a fix
(a) In pain (b) In distress
(c) Depressed (d) In a difficult situation

87. To break the ice
(a) Made people angry
(b) Made people laugh
(c) Made people excited
(d) Made people relaxed and comfortable

Directions (Qs. 88-90): *Out of the four alternatives, choose the one which can be substituted for the given words/sentences and click the button corresponding to it.*

88. An abattoir is _____ .

- (a) a place where animals are slaughtered
- (b) a place where abbots stay
- (c) a title of respect given to a priest or abbot
- (d) a place where animals are worshipped

89. A man with abnormal habits

- (a) Eccentric
- (b) Frantic
- (c) Idiotic
- (d) Sulky

90. Words inscribed on the tomb

- (a) Epigraph
- (b) Epigram
- (c) Epitaph
- (d) Elegy

Directions (Qs. 91-95): A sentence/a part of the sentence is underlined. Four alternatives are given to the underlined part which will improve the sentence. Choose the correct alternative and click the button corresponding to it. In case no improvement is needed, click the button corresponding to "No improvement"

91. Sunita's sister had ribbons **on** her hair.

- (a) in
- (b) over
- (c) through
- (d) No improvement

92. She has an **ability** for Mathematics.

- (a) attitude
- (b) aptitude
- (c) altitude
- (d) No improvement

93. I was impressed **of** it.

- (a) by
- (b) on
- (c) for
- (d) No improvement

94. Only high officials have access **with** the President.

- (a) to
- (b) for
- (c) from
- (d) No improvement

95. No other snake is as poisonous as this one.

- (a) are as poisonous as this one
- (b) is more poisonous as this one
- (c) is poisonous than this one
- (d) No improvement

Directions (Qs. 96-100): A passage is given with 5 questions following it. Read the passage carefully and choose the best answer to each question out of the four alternatives and click the button Corresponding to it.

The first working steam powered vehicle was designed and most likely built by Ferdinand Verbiest, a Flemish member of a Jesuit mission in China around 1672. It was a 65 cm long scale-model toy for the Chinese Emperor, that was unable to carry a driver or a passenger. It is not known if Verbiest's model was ever built. Nicolas-Joseph Cugnot is widely credited with building the first full-scale, self-propelled mechanical vehicle or automobile in about 1769, he also created a steam-powered tricycle. He constructed two steam tractors for the French Army, one of which is preserved in the French National Conservatory of Arts and Crafts. His inventions were however handicapped by problems of water supply and maintaining steam pressure. In 1801, Richard Trevithick built and demonstrated his Puffing Devil road locomotive, believed by many to be the first demonstration of a steam-powered road vehicle. It was unable to maintain sufficient steam pressure for long periods. Sentiment against steam-powered road vehicles led to the Locomotive Acts of 1865. In 1807 Nicéphore Niepce and his brother Claude probably created the world's first internal combustion engine which they called Pyreolophore.

96. The first full-scale, working steam powered tricycle was built by:

- (a) Verbiest
- (b) Cugnot
- (c) Trevithick
- (d) Niepce

97. Cugnot built steam tractors for:

- (a) The Chinese Emperor
- (b) The French Army
- (c) The Jesuit mission
- (d) The French Conservatory

98. The problem with Trevithick's Puffing Devil was:

- (a) Its incapability to carry a driver or a passenger.
- (b) With the water supply
- (c) Its inability to maintain steam pressure
- (d) Its combustion engine

99. What is meant by "Sentiment" in the context of the given paragraph?

- (a) Depression
- (b) Fascination
- (c) Celebration
- (d) Resentment

100. The Pyreolophore was?

- (a) A self-propelled mechanical vehicle
- (b) A steam-powered tricycle
- (c) A steam tractor
- (d) The name of the world's first internal combustion engine