

MTS EXAMINATION 2012

QUESTION PAPER

Class : VIII



Marks : 100
Time : 2 hrs

Register No :

General Instructions

1. Candidates are supplied with an OMR Answer Sheet.
2. Answer the questions in the OMR Sheet by shading the appropriate bubble.
3. Shade the bubbles with black ball pen.
4. Each question carries one mark.
5. Use the space provided in the last page for rough work.

Read the passage and answer the questions 1 to 4.

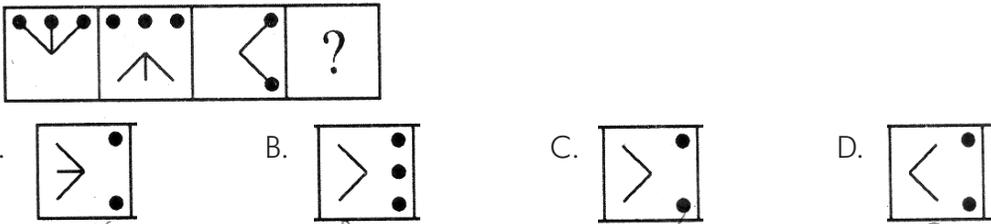
Speech is a great blessing but it can also be a great curse, for while it helps us to make our intentions and desires known to our friends and fellows, it can also, if we use it carelessly, make our attitude completely misunderstood. A slip of the tongue, the use of an unusual word, or of an ambiguous word, and so on, may create an enemy where we had hoped to win a friend. Again different classes of people use different vocabularies and the ordinary speech of an educated man may strike an uneducated listener as pompous.

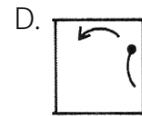
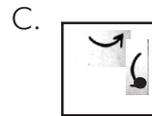
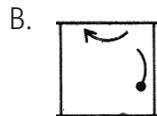
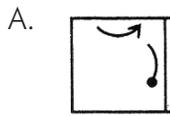
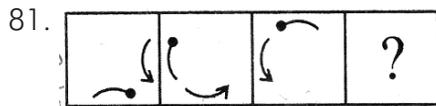
1. Speech can be a curse, because it can
A. create confusion
B. lead to carelessness.
C. create misunderstanding.
D. reveal our intentions.
2. 'A slip of the tongue' means, something said
A. wrongly by chance
B. as a piece of advice
C. to tease others
D. to hurt another person.
3. While talking to an uneducated person, we should use
A. ordinary speech
B. polite language.
C. simple words.
D. his vocabulary
4. Which word in the passage means 'that can be understood in more than one way'?
A. pompous
B. slip
C. blessing
D. ambiguous
5. The new car looks so sleek that my brother couldn't resist it.
A. to drive
B. have driven
C. driving
D. having driven
6. Which sentence expresses the same meaning as the following?
Sumit's parents encouraged him. He worked hard.
A. Encouraged by his parents, Sumit worked hard.
B. Having encouraged by Sumit's parents, he worked hard.
C. Encouraging parents, Sumit worked hard.
D. Being encouraged by Sumit's parents, he worked hard.

7. The question was very tough. He couldn't answer it. Rewrite using 'too'.
- The question was too easy for him to answer.
 - The question was too tough to answer.
 - The question was too tough that he could not answer it.
 - The question was too tough for him to answer.
8. The of excellence should be our aim in whatever we do.
- pursuing
 - pursuit
 - purusal
 - pursuation
9. The Principal visited Ashif's residence.
Identify the option which can best replace the above sentence.
- The Principal called over Ashif's residence.
 - The Principal called on Ashif's residence.
 - The Principal called at Ashif's residence.
 - The Principal called after Ashif's residence.
10. The plural form of phenomenon is
- phenomena
 - phenomenae
 - phenomenons
 - phenomenii
11. Who discovered the sea route to India in 1495?
- Columbus
 - D.Almeda
 - Megallan
 - Vasco-da-Gama
12. Who was the first Governor General of India?
- Lord Hastings
 - Warren Hastings
 - Robert Clive
 - Corn Wallis
13. Ambedkar started a Temple Entry Movement in the year
- 1919
 - 1929
 - 1927
 - 1937
14. 'Brahmasamaj' was founded by
- Raja Ram Mohan Roy
 - Swami Vivekananda
 - Swami Dayananda Saraswati
 - Rabindranath Tagore
15. The process of taking out minerals from rocks buried under the surface of the earth is called
- shaft mining
 - drilling
 - quarrying
 - mining
16. What is an aggregate of one or more minerals but without definite composition of minerals?
- Iron ore
 - Rock
 - Mud
 - Fuels
17. Cultivation of grapes is called
- pisciculture
 - sericulture
 - viticulture
 - horticulture
18. The most important aspect of secularism is
- separation of religion from state power
 - democracy
 - promotion of religion
 - domination of religious groups
19. The person who is tied by a court for a crime is called
- criminal
 - prosecutor
 - witness
 - accused

20. The sum of interior angles of a hexagon is
 A. 180° B. 720° C. 540° D. 360°
21. Name quadrilateral which is both a rectangle and rhombus
 A. kite B. parallelogram C. square D. trapezium
22. Adjacent angles of a parallelogram are
 A. supplementary B. equal C. complementary D. none of these
23. Solution of the equation $3x - 1 = 5$ is
 A. $\frac{4}{3}$ B. -2 C. 6 D. 2
24. When a number is multiplied by five exceeds itself by 32. Then the number is
 A. 6 B. 8 C. 4 D. 3
25. 3500000 can be written in standard form as
 A. 3.5×10^5 B. 35×10^4 C. 3.5×10^6 D. 35×10^6
26. 0.00024 in standard form will be
 A. 2.4×10^{-4} B. 2.4×10^3 C. 24×10^{-5} D. 24×10^{-3}
27. The cube root of 343 is
 A. 3 B. 4 C. 9 D. 7
28. Ratio 3:4 is equivalent to
 A. 70% B. 75% C. 50% D. 80%
29. Volume of a cylinder whose radius of the base is 7cm and height is 20cm is
 A. 1540cm^3 B. 2560cm^3 C. 3080cm^3 D. 1920
30. Two coins are tossed simultaneously. What is the probability of getting 2 heads?
 A. $\frac{1}{4}$ B. $\frac{2}{4}$ C. $\frac{3}{4}$ D. 1
31. Information through pictures is called
 A. histogram B. pie chart C. bar graph D. pictograph
32. If a pendulum oscillates 50 times in 5 seconds its time period is
 A. 20 seconds B. 10 seconds C. 5 seconds D. 30 seconds
33. Loudness is determined byof vibration
 A. pitch B. frequency C. amplitude D. time period
34. Friction produces
 A. heat B. light C. motion D. energy
35. The unit of frequency is
 A. Kilogram B. Second C. Meter D. Hertz
36. Acid rain is caused by
 A. oxides of Calcium and Phosphorus B. oxides of Nitrogen and Sulphur
 C. oxides of Sulphur and Calcium D. oxides of Sulphur and Phosphorus

37. Chemical formula of sulphuric acid is
 A. HNO_3 B. H_2SO_4 C. H_2SO_3 D. H_2CO_3
38. Calorific value of LPG is more than that of other fuels. The unit of calorific value is
 A. KJ/kg B. J/g C. KJ/g D. KJ/mg
39. Removing chaff from the grains is
 A. Winnowing B. weeding C. harvesting D. Threshing
40. The number of nucleus present in a Zygote
 A. 2 B. 1 C. 4 D. 8
41. One among the following was awarded the Nobel Prize for Physics 2011. Who was it?
 A. Bruce A Beutler B. Daniel Schechtman
 C. Prof. Adam Reiss D. Tomas Transtromer
42. The current Chief of the Indian Army.
 A. Vijay Kumar Sing B. Deepak Kapoor
 C. Prakash Malik D. Nirmal Chander Vij
43. Who got the National Film Award for the Best Actor 2011?
 A. Mohanlal B. Jayaram
 C. Dilip D. Salim Kumar
44. Eminent Assamese writer who passed away recently.
 A. Dev Anand B. Indira Goswami
 C. Ustad Sultan Khan D. Bhupen Hazarika
45. Union Minister for Rural Development.
 A. Kapil Sibal B. Vayalar Ravi C. Jairam Ramesh D. MK.Azhagiri
46. The present Chief Minister of West Bengal.
 A. Mamata Banerjee B. Mayawati
 C. Ashok Gehlot D. Mukul Sangma
47. NCERT stands for.
 A. National Committee of Educational Research and Training.
 B. National Council for Education and Rural Training.
 C. National Committee of Educational and Training.
 D. National Council of Educational Research and Training.
48. What is the acronym OPEC related to?
 A. Petroleum Consuming Countries B. Organisation of Petroleum Exporting Countries
 C. Oil Producing Corporation D. Organisation of European Conference Committee
49. Which of the following is no more a Fundamental Right?
 A. Right to equality. B. Right against exploitation.
 C. Right to property. D. Right to freedom of speech.

65. The UN Security Council has permanent members
 A. 7 B. 6 C. 5 D. 8
66. Red Cross was founded by
 A. Clara Barton B. Baden Powell C. Trygve Lee D. Passey
67. The largest state in India is
 A. Utter Pradesh B. Bihar C. Madhya Pradesh D. Rajasthan
68. The longest river of South India.
 A. Kaveri B. Godavari C. Bharathapuzha D. Krishna
69. Who was the first Indian to climb Mount Everest twice ?
 A. Phu Dorjee B. Tenzing Norgay C. Nawang Gombu D. Bachendri Pal
70. Who was the first Vice President of India ?
 A. S. Radha Krishnan B. Dr. Zakir Hussain
 C. V.V. Giri D. G.S. Pathak
71. The first to cross the English Channel
 A. Kevin Murphy B. Philip Rush C. Petar Stoychev D. Mathew Webb
72. Which is known as the Land of Lilies ?
 A. Cuba B. Canada C. USA D. India
73. The Nightingale of India.
 A. Annie Besant B. Indira Gandhi C. Sarojini Naidu D. Sonia Gandhi
74. The author of the famous Malayalam novel `Pravasam`.
 A. M. Mukundan B. Muttathu Varkey C. T V. Kochubava D. Anand
75. One of the famous books written by Salman Rushdie
 A. My Truth B. Oh ! Culcutta. C. Prison Diary D. Midnights Children
76. Book : Publisher : : Film :?
 A. Writer B. Producer C. Director D. Editor
77. 
78. Stethoscope : Physician : : Pestle :
 A. Pharmacist B. Editor C. Tank D. Stage
79. AFKP : UZEJ : : KPUZ :?
 A. BFJK B. EPUZ C. GLQV D. EJOT
80. Find the odd one
 A. Infant B. Girl C. Child D. Baby



82. Which is the odd one

- A. Tree : Forest B. Class : Students C. Hour : Minutes D. Sentence : Words

83. Find the odd one

- A. 243 B. 261 C. 270 D. 251

84. Find the missing number 3, 9, 27, 81,, 729

- A. 162 B. 243 C. 324 D. 405

85. b, c, f, g, j, k, What comes next?

- A. l B. 0 C. n D. m

86. n.....n.....m.....mn.....mnm What next?

- A. mmnn B. nmmn C. mmmn D. nmmm

87. If SYSTEM is written as SYSMET, NEARER as AENRER. Then how is FRACTION is written

- A. CARFNAIT B. FRACNOIT C. CARFTION D. CARFNOIT

88. ENGLAND is written as 1234526 and FRANCE is 785291. How will GREECE be written in the coding scheme?

- A. 381911 B. 381191 C. 394132 D. 562134

89. If 'room' is called 'bed', 'bed' is called 'window', 'window' is called 'flower' and 'flower' is called 'cooler' on what would a man sleep?

- A. Flower B. Bed C. Window D. None of these

90. In a certain code language 'lea su jak' means 'he eats apple's', 'joe tic' means 'sweet oranges' and 'lee kee io tic' means 'Mohan eats sweet bananas'. Which code means 'orange'?

- A. Jee B. Tic C. Kee D. Can't be determined

91. Pointing to a person in photograph, Rakesh said "He is the son of my father's brother's only sister in law". How is the person related to Rakesh?

- A. Son B. Uncle C. Cousin D. Brother

92. Raju starts from A to B at a speed of 10 km/hr and returns with a speed of 15 km/hr.

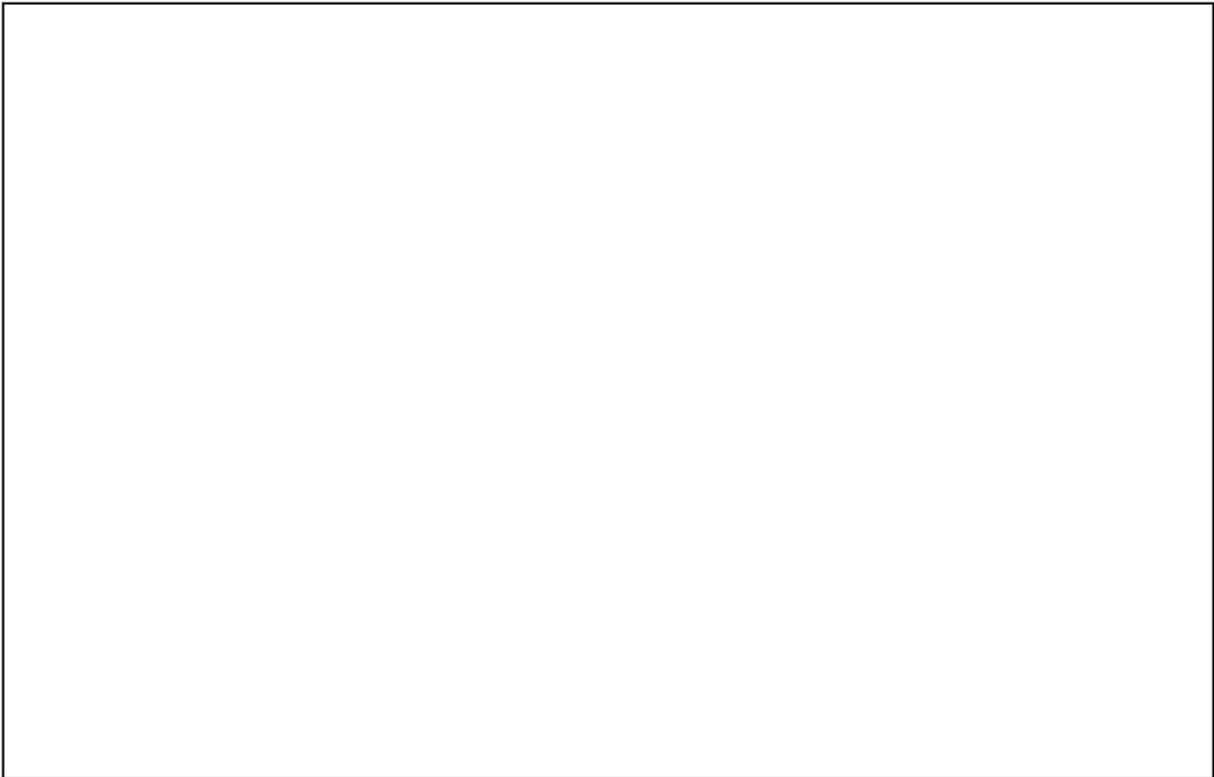
What is the average speed of the journey?

- A. 25 km/hr. B. 12 km/hr. C. $12\frac{1}{2}$ km/hr. D. 10 km/hr.

93. You start from a point A and walks 3 km north and then turn left and walk 4 km and turn left to point B. What is your direction and how far are you from point A?

- A. North, 6 km B. East, 10 km C. South, 5 km D. West, 3 km

94. If '+' means \div , '-' means \times , 'x' means + and ' \div ' means -, find the value of
 $25 - 3 \div 15 + 5 \times 3$.
 A. 75 B. $40\frac{1}{5}$ C. $39\frac{4}{5}$ D. 31
95. How many 6's are there in the following sequence each of which is not immediately preceded by an even number?
 7658695685632865875956959983
 A. one B. 2 C. more than 4 D. 4
96. In a class, Suchithra ranks 5th from the top and 26th from bottom. How many students are there in the class?
 A. 29 B. 30 C. 31 D. 28
97. How many pairs of letters are there in the word CRICKET which have as many letters between them in the word as in the alphabet?
 A. 4 B. 3 C. 2 D. 1
98. $\frac{1}{2} + \frac{1}{3} \times \frac{1}{4} - \frac{1}{2} = \dots\dots\dots$
 A. $\frac{1}{2}$ B. 1 C. 2 D. 6
99. $\frac{1}{5}$ of $35 + 4(9 - 3) = \dots\dots\dots$
 A. 35 B. 30 C. 28 D. 31
100. $6 + [2 + \{4 \times (8 - 3) - (2 \times 6) - 1\} + 2] = \dots\dots\dots$
 A. 18 B. 17 C. 15 D. 20



MTS EXAMINATION 2013
QUESTION PAPER

8

Class: VIII

Register No:

Marks : 100
Time : 2 hrs.

General Instructions:

1. Candidates will be supplied with separate Question Paper and Answer (OMR) Sheet.
2. Answer the questions in the OMR Sheet by shading the appropriate bubble.
3. Shade the bubbles with black ball pen.
4. Each Question carries one mark. ¼ mark will be deducted for each wrong answer.
5. Use the space provided on the last page for rough work.

Read the passage and answer the following questions 1 to 3.

On an island in New York Harbour stands a prominent symbol of the United States: the Statue of Liberty. This magnificent monument did not originate in the United States, however. The Statue of Liberty was a gift from the people of France to mark the one hundred year anniversary of American independence. In 1869, sculptor Frederic Auguste Bartholdi began to execute his concept for the monument.

Bartholdi chose the look of classic Greek and Roman figures. He envisioned Liberty as a strong and proud figure, one who personified not only the majestic Greek goddesses of the past, but also the working men of the present. Finally, in 1884, the work was finished and Liberty was packed in 214 crates. Only one problem stood in the way. While the French had raised 4,00,000 to build the statue, New York had not secured funds. It was not until a New York newspaper implored people for donations money became available. And on 28 October 1886, Americans celebrated the unveiling of the Statue of Liberty. Today, the statue continues to stand as a symbol of freedom.

1. Where did the monument originate?
A. in New York B. in America C. in Rome D. in France
2. Bartholdi chose the look of classic figures.
A. France - New York B. Greek - France
C. Greek - Roman D. Greek - American
3. Today, the statue symbolizes:
A. power B. security C. freedom D. pride
4. Fill in the blanks with apt prepositions given.
She is doing a degree course a University.
A. at B. by C. for D. from
5. Choose the correct gerund form with suitable preposition.
I had the opportunity (see) a rare bird in Ranganatitu.
A. on seeing B. of seeing C. to see D. see
6. you take your medicine, you will not get better
A. if B. to C. since D. unless
7. The force exerted by a charged body on another charged or uncharged body
A. Gravitational force B. Electrostatic Force
C. Frictional force D. Muscular Force

8. A ray of light is incident on a plane mirror and the angle of reflection is 50° . Calculate the angle between the incident ray and reflected ray.
 A. 50° B. 25° C. 100° D. 90°
9. The metal which is kept in kerosene
 A. Lithium B. Iron C. Aluminium D. Sodium
10. The most common carrier of communicable diseases is
- A. Ant B. House fly C. Dragon fly D. Spider
11. When a dice is thrown, what is the probability of getting an odd prime number?
 A. $\frac{1}{2}$ B. $\frac{5}{6}$ C. $\frac{1}{6}$ D. 1
12. I am a quadrilateral with opposite angles equal, but not all. My diagonals bisect one another but not perpendicular. Who am I?
 A. Rectangle B. Rhombus C. Kite D. Parallelogram
13. The product of a^2 and $(-A)^2$ is
- A. $-a^4$ B. a^4 C. a^4 D. $-a^4$
14. Thirty years ago, my age was $\frac{1}{3}$ of what is now. My present age is
- A. 45 years B. 50 years C. 40 years D. 60 years
15. A rational number between x and y is
 A. $\frac{x-y}{2}$ B. $\frac{x+y}{2}$ C. $\frac{x \times y}{2}$ D. $\frac{x \div y}{2}$
16. If $A = 3x - 5y$, $B = 6x + 3y$ and $C = 2y - 4x$, then the value of $A + B - C$ is
 A. $10x - 4y$ B. $13x - 2y$ C. $12x - 4y$ D. $13x - 4y$
17. Nana Saheb was the adopted son of
 A. Tantia Tope B. Peshwa Baji Rao II
 C. Rani Laxmi bhai D. Kanwar Singh
18. Who led an anti-British resistance movement in Kitoor?
 A. Rani Channamma B. Rayanna
 C. Mahadji Sindhia D. Nana Phadnis
19. In the Court, who represents a case on behalf of the state?
 A. Judge B. Police C. Public Prosecutor D. Witness
20. Horticulture is related to
- A. cultivation of grapes B. breeding of fish
 C. growing vegetables D. rearing of silk worms
21. A and B start walking from the same point. A goes north and covers 5 km, then turns right and covers 4 km. B goes west and covers 5 km, then turns right and covers 5 km. How far apart are they from each other?
 A. 10 km B. 8 km C. 5 km D. 9 km
22. Student : Book :: Post man :
- A. Mail B. Uniform C. Bicycle D. Delivery

23.

8	3	21
6	5	25
12	2	?

- A. 24 B. 19 C. 22 D. 20

24. The jumbled spelling of a vegetable is 'Toastope' what is the last letter of the word rearranged.

- A. O B. T C. E D. S

25. Microphone : loud : : Microscope :

- A. increase B. magnify C. examine D. investgate

26. YEAR : ZFBS : : QUEEN :

- A. RUFFN B. RVFFP C. PTDDM D. RVFFO

27. If 'light' is called 'dark', 'dark' is called 'green', 'green' is called 'blue', 'blue' is called 'red', 'red' is called 'white', white is called yellow, then what is the colour of blood.

- A. red B. dark C. white D. yellow

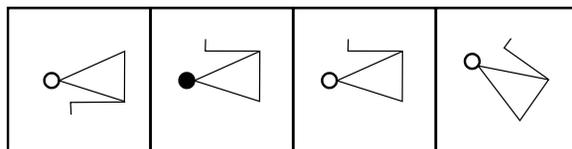
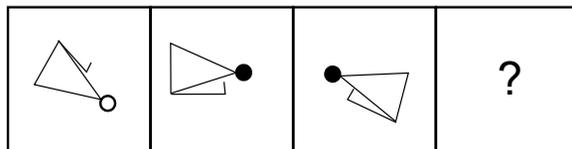
28. On five members of a panel sitting in a row, R is on the left of P, but on the right of T and Q is on the left of S, but on the right of P, who is sitting in the middle?

- A. Q B. P C. R D. D

29. Which one set of letters when sequently placed at the gaps in the given letter series shall compute it a – b – abb – ab – a – bba

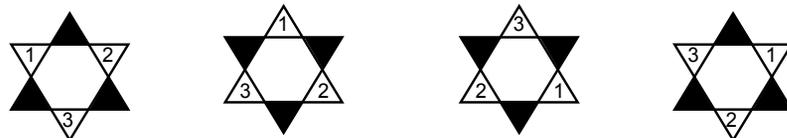
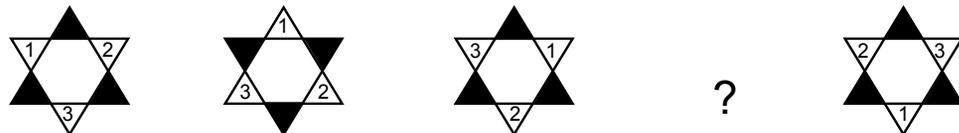
- A. baaba B. babba C. bbaab D. aabba

30. What comes next?



- A. B. C. D.

31.

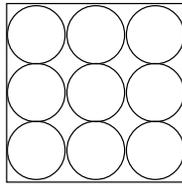


- A. B. C. D.

32. The sum of two members is ten. Their product is twenty. The sum of the reciprocals of the two numbers is
- A. $\frac{1}{6}$ B. $\frac{1}{2}$ C. 3 D. 4
33. The value of $3 + \frac{3}{3 + \frac{3}{3 + \frac{3}{3 - 2}}}$
- A. $\frac{27}{7}$ B. $\frac{22}{7}$ C. 9 D. $\frac{48}{7}$
34. In 24 minutes the hour hand of a clock moves through an angle of
- A. 5° B. 60° C. 24° D. 12°
35. How many 6's are there in the following number series which are immediately either preceded by 4 or followed by 7?
3129647646729764467
- A. 1 B. 2 C. 3 D. 4
36. 3, 8, 22, 63, 185,
- A. 285 B. 295 C. 310 D. 550
37. A can do a piece of work in 35 days while B can complete it in 45 days. They start the work together but A dropout after 7 days. How many days will B take to finish the remaining work?
- A. 29 B. 35 C. 36 D. 45
38. What is the least number of times a rectangular piece of paper 16 cm x 9 cm has to be cut in order to arrange the pieces together as a square of the same area?
- A. 5 B. 3 C. 6 D. 4
39. Car : garage :: Aeroplane :
- A. port B. depot C. hangar D. harbour
40. ACFJ is related to ZXUQ, in the same way as EGJN is related to
- A. DBYU B. VTQM C. VTRD D. VUSQ
41. If $7 * 1 = 64$, $3 * 9 = 144$ what is the value of $5 * 6$?
- A. 22 B. 55 C. 66 D. 121
42. If $3 + 9 = 31$, $15 + 12 = 45$, $18 + 9 = 36$, then $12 + 27 = \dots\dots\dots$
- A. 94 B. 14 C. 49 D. 53
43. If L denotes \times , M denotes \div , P denotes $+$ and A denotes $-$, then $16 P 24 M 8 Q 6 M 2 L 3 = \dots\dots\dots$
- A. $13/6$ B. $-1/6$ C. $14\frac{1}{2}$ D. 10
44. 0, 4, 6, 3, 7, 9, 6,, 12
- A. 8 B. 10 C. 11 D. 14
45. Pointing to a man in a photograph, a woman said, "His brother's father is the only son of my grand father." How is woman related to the man in the photograph.
- A. mother B. aunt C. sister D. daughter
46. A man is facing west. He turns 45° in the clockwise direction and then another 180° in the same direction and 270° in the anticlockwise direction. Which direction is he facing now?
- A. south B. north - east C. west D. south - west

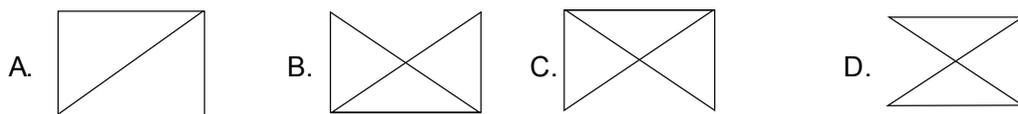
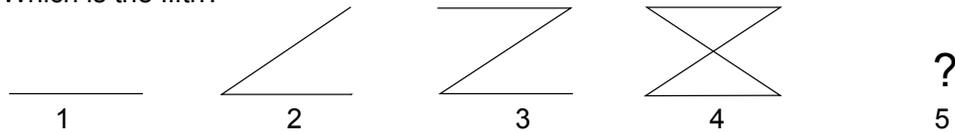
47. How many numbers from 1 to 100 are divisible by 12 but not divisible by 36?
 A. 8 B. 7 C. 5 D. 6

48. The diameter of each circle is 'd', then the area of the square is



- A. $9d^2$ B. $9d$ C. $3d^2$ D. $\frac{3}{4}d^2$

49. Which is the fifth?



50. Five boys took part in a race. Raj finished before Mohit but behind Gaurav. Ashish finished before Sachin but behind Mohit. Who won the race?

- A. Raj B. Gaurav C. Mohit D. Ashish

51. The collector arrived at the conference hall for a meeting at 10 minutes to 4:30 pm. He was early by 20 minutes than the Deputy Collector, who was late by 30 minutes. At what time was the meeting scheduled?

- A. 4.50 pm B. 4.10 pm C. 4.20 pm D. 4.40 pm

52. How many days are there from Jan 20, 2000 to April 14, 2000 including both days?

- A. 84 B. 85 C. 86 D. 87

53. Which painter makes a special appearance towards the end of the film Taare Zameen Par?

- A. Lalita Lajmi B. F.N.Souza C. Satish Gujral D. Nandan Lal Bose

54. Who was awarded the Nobel Prize for Peace in 2012?

- A. Tawekel Kerman B. Leymah Gbowee
 C. European Union D. Ellen Johnson Sirleaf

55. The week-long La Tomatina Festival takes place annually in the Valencia region of

- A. Canada B. Spain C. France D. Italy

56. Who is known as the father of the white revolution?

- A. M.S.Swaminathan B. Sharad Pawar C. C.Subramanian D. V. Kurian

57. Last year, Rajya Sabha passed impeachment proceedings against a Kolkata High Court Judge. Who was he?

- A. Justice K.G. Balakrishnan B. Justice P.D.Dinakaran
 C. Justice Soumitra Sen D. Justice Ramaswami

58. Who is the union minister of state for Environment and Forest?

- A. Jayanthi Natarajan B. Veerappa Moily C. Jairam Ramesh D. M.K.Alagiri

59. Which is India's first Radar Imaging Satellite?

- A. ISR-1 B. RISAT-1 C. Kalpana-1 D. Cartosat-1

60. Which of the following country is recently formed?
 A. Kosovo B. East Timur C. South Sudan D. Serbia
61. Which political movement defends Gaza against the attack of Israel?
 A. Fateh B. Hamaz C. Brotherhood D. Hisbullah
62. Who is the new Director of CBI?
 A. Laxmi Narayan B. Amar Pratap Singh C. Anil Kohli D. Ranjit Sinha
63. Who is the chairperson of Women’s Commission in Kerala?
 A. Sugatha Kumari B. K.C. Rosakutty C. Noorbina Rasheed D. Hridaya Kumari
64. Who is the union minister for Health and Family Welfare?
 A. Gulam Nabi Azad B. Praful Patel C. Mallikarjun Kharge D. Kamalnath
65. Who is the chairman of the Indian Space Research Organisation (ISRO)?
 A. Dr. G. Madhavan Nair B. Dr. A.P.J. Abdul Kalam
 C. R.K. Dhavan D. Dr. K. Radhakrishnan
66. Who is the Kerala Minister for Labour and Rehabilitation?
 A. P.J.Joseph B. Shibu Baby John
 C. K.C.Joseph D. C.N.Balakrishnan
67. Which of the following is connected with ANERT?
 A. Renewable energy. B. Newclear energy
 C. Thermal energy D. Hydro electricity
68. In WTO, what does the letter T represent?
 A.Transport B.Technology C.Trade D.Travel
69. Which game is the term ‘stalemate’ associated with?
 A. Table Tennis B. Hockey C. Golf D. Chess
70. Who invented the device for reading for the blind?
 A. Braille B. Aldus Huxley C. Thomsun D. Urey
71. Who propounded the theory of evolution?
 A. Louis Julliet B. Martin Klapruth C. Charls Darwin D. Becquerel
72. Who discovered the continent of Australia?
 A. Christopher Columbus B. Amerigo Vespuigi
 C. James Cook D. Thomas Cook
73. The first British High Commissioner of Independent India is
 A. K.P.Kesava Menon B. V.K.Krishna Menon
 C. C. Achutha Menon D. T.N.Seshan
74. The National Sports star known as Payyoli Express.
 A. P.T.Usha B. M.D.Valsamma C. Anju Bobby George D. Rosakutty
75. Who is the present Chancellor of Germany?
 A. Julia Gillard B. Stephen Harper C. Angela Merkel D. Jean Max
76. “Long Walk To Freedom” is the autobiography of
 A. Kofi Annan B. Kennath Kaunda C. Fr.Tutu D. Nelson Mandela
77. Whom did Gandhiji call the “Fearless Seeker of truth?”
 A. Jawaharlal Nehru B. Rabindranath Tagore
 C. Baba Amthe D. K.Kelappan
78. Who established Ramakrishna Mission?
 A. Sri Ramakrishna Paramahamsar B. Swami Vivekananda
 C. Swami Dayananda Saraswati D. Raja Ram Mohan Roy

79. Which is the capital of Afghanistan?
 A. Dhaka B. Islamabad C. Tehran D. Kabul
80. Which of the following animal is the national animal of Australia?
 A. Tiger B. Kangaroo C. Koala D. Shrew
81. Which city is the capital of Greece?
 A. Athens B. Rome C. Paris D. Amman
82. Golden Temple is situated in
 A. Luknow B. Amritsar C. Ahmedabad D. Ludhiana
83. Who among the following constructed the Grand Trunk Road?
 A. Babar B. Humayoon C. Shersha Suri D. Jahangir
84. Petronas Towers is the land mark of which country?
 A. Singapore B. Indonesia C. Brunei D. Malaysia
85. Sunny days :Sunil Gavasker; Cricket My Style:.....
 A. Sachin Tendulkar B. Kapil Dev
 C. Javed Miandad D. Mahendra Singh Dhoni
86. The first Indian to become Grand Master
 A. Vishwanathan Anand B. Konoru Humpy
 C. G.N.Gopal D. Divyendu Baruva
87. Who scored the most number of goals in International football competitions?
 A. Ronaldo B. Pele C. Ali Daei D. Theory Henry
88. Which one is the world's biggest statue made of one stone?
 A. Thiruvalluvar Statue B. Gomateshwara Statue
 C. Statue of Liberty D. Mother land
89. Which is the largest peninsula in the world?
 A. India B. Australia C. Africa D. Arabia
90. A blinking symbol on the screen that shows where the next character will appear.
 A. Delete Key B. Arrow Key C. Cursor D. Return Key
91. If you need to write a report about India, you would use a
 A. Word Processor Programme B. Spread Sheet Programme
 C. Data Base Progrmme D. Draw Programme
92. Software which interacts directly with the user is called
 A. Operating System Software B. Application Software
 C. Both Operating and Application D. Multiuser Software
93. Which revolution is Boston Tea party related with?
 A. French Revolution B. Chinese Revolution
 C. October Revolution D. American Freedom Struggle
94. The code names used in world war II, "Fat Man" and "Little Boy" refers to
 A. Two leaders of allied forces B. The attacking planes
 C. Atom bombs dropped in Japan D. Two treaties
95. Who was the Chairman of the Drafting Committee of Indian Constitution?
 A. Dr.Rajendra Prasad B. Dr. B.R.Ambedkar
 C. Jawaharlal Nehru D. C. Raja Gopalachari
96. Who wrote the autobiography , "The Daughter of East"?
 A. Benazir Bhutto B. Indira Gandhi C. Khalida Zia D. Azar Nafsi

MTS EXAMINATION 2014

QUESTION PAPER

8

Class : VIII

Score : 400

Time : 2 hrs

Register No :

General Instructions

1. Candidates are supplied with an OMR Answer Sheet.
2. Answer the questions in the OMR Sheet by shading the appropriate bubble.
3. Shade the bubbles with black ball point pen.
4. Each question carries four marks. One mark will be deducted for each wrong answer.
5. Use the space provided in the last page for rough work.

Fill in the blanks suitably using the correct options A, B, C or D

1. Of Bangaluru and Mangalore, which city is.....?
A. hot B. the hottest C. hotter D. more hotter
2. The bird flewthe lake.
A. above B. below C. under D. over
3. She.....a speech
A. said B. told C. made D. put
4. The trainan hour ago.
A. has left B. have left C. had left D. left
5. An owl glides but a horse
A. runs B. climbs C. flies D. gallops
6. Shedown and then tried to sleep
A. lies B. lay C. laid D. lain

Read the following passage and answer the questions 7-10

Asma al-Beltaji... baby of Rabea Square and an icon of the revolution. She was the daughter of the Muslim Brotherhood leader Mohamed Al-Beltaji. On a Wednesday morning, 14 August, Asmaa fell next to Rabea Al Adawiya podium when a sniper shot her in the chest and the back. This led to her death within a few minutes.

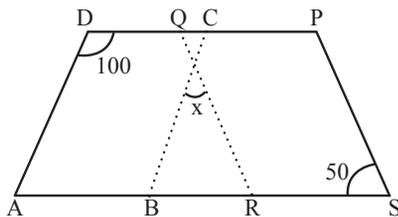
One of the last things Asmaa said was: "Persist, victory will come soon. Do not leave the revolution to the army." This was Asmaa Al-Beltaji's commandment the moment she was murdered, sources close to her say. Due to her young age Asmaa, who was 17-years old, accompanied her mother. Her attitude and dreams reflected maturity. She continued to aid the injured until that treacherous bullet killed her.

Ethar, one of Asma's friends describes the last hours before Asmaa's assassination and says: "She called me at the time of the dawn prayer (Subah) to wake me up to perform the prayer. I asked her to return home and she told me she cannot miss the moment the army disperse the protestors, so leave the matter to God." Asmaa was active. The last thing she wrote on her Facebook page was: "They killed us over night while in our prayers while they are the humiliated and fewer in number. So call God's servants to come in numbers as the sea waves to support us."

One of the readers of 'The Telegraph' responded to the news: "Asma, I read about you in the British newspaper, The Telegraph, on 15 August 2013. We in India were shocked by your death on the day when we were celebrating the 66th Independence Day of our country. The Telegraph reported that you were just 17 years old; on top of your class in school and you had a reputation as a gentle and intelligent young woman. Since you

were not Malala Yousafzai, the global media has largely ignored your truly tragic story. Nor is there deafening outcry from the human rights organizations.”

7. Asma was 17 years old. She was interested and involved in?
 - A. Chatting with friends in Facebook
 - B. Listening to the music
 - C. Playing computer games
 - D. Helping injured protesters in Rabaa Adawiya
8. How was Asma killed?
 - A. shot
 - B. bomb blast
 - C. poison
 - D. hanged
9. Where did Asma, her parents and other activists gathered to persist the protection against the army?
 - A. Saudi Arabia
 - B. Pakistan
 - C. Rabea al Adawiya
 - D. Cairo
10. What does the reader of The Telegraph tell?
 - A. Global media largely ignored Malala Yusuf Zai
 - B. Global media celebrated Malala and Asma
 - C. Global media celebrated Malala but largely ignored Asma’s martyr
 - D. Global media celebrated Asma
11. A bag contain 5 green balls, 3 red balls and 2 blue balls. One ball is taken at random. What is the probability that the ball taken is not blue
 - A. $\frac{1}{5}$
 - B. $\frac{4}{5}$
 - C. $\frac{1}{4}$
 - D. $\frac{3}{4}$
12. The number of sides of a regular polygon which has an interior angle 170° is
 - A. 30
 - B. 2
 - C. 20
 - D. 36
13. In the figure below ABCD and PQRS are parallelograms. The value of x is
 - A. 50°
 - B. 100°
 - C. 150°
 - D. 30°

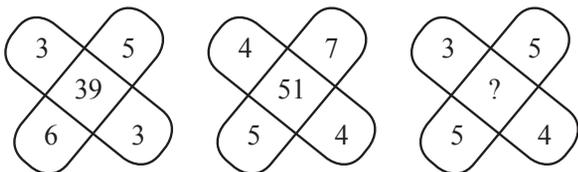


14. A rectangular paper of width 11 cm and length 44 cm is rolled along its width to form a cylinder of maximum volume. The volume of the cylinder is
 - A. $\frac{539\pi cm^3}{4}$
 - B. $539\pi cm^3$
 - C. $5324\pi cm^3$
 - D. $484\pi cm^3$
15. The additive inverse of $\frac{7}{5}$ is
 - A. $\frac{7}{5}$
 - B. $\frac{5}{7}$
 - C. $-\frac{7}{5}$
 - D. $-\frac{5}{7}$
16. An almirah is to be sold at RS. 10450, after allowing a discount of 5%. What should be its marked price ?
 - A. Rs.11000
 - B. Rs. 10972.5
 - C. Rs.9927.5
 - D. Rs.10000
17. Compound interest to be paid at the end of one year on Rs.2500 at 4% per annum compounded half yearly is
 - A. RS. 200
 - B. Rs. 2601
 - C. 100
 - D. 101
18. $\frac{25 \times t^{-3}}{5^{-3} \times 20 \times t^{-8}} = \dots\dots\dots$
 - A. $\frac{625t^4}{5}$
 - B. $\frac{625t^5}{4}$
 - C. $\frac{125t^4}{4}$
 - D. $\frac{25t^5}{4}$
19. $m^4 - 256 =$
 - A. $(m-16)(m+16)$
 - B. $(m-4)(m+4)(m+16)$
 - C. $(m-4)^2(m+4)^2$
 - D. $(m-4)(m+4)(m^2+16)$
20. $(5p^2 - 25p + 20) \div (p-1)$
 - A. $5p-5$
 - B. $5p-45$
 - C. $5(p-4)$
 - D. $5(p+4)$

21. A rectangular wooden block has length, breadth and height of 50 cm, 25 cm and 10 cm respectively. This wooden block is kept on ground in 3 different ways, turn by turn. Which of the following is the correct statement about the pressure exerted by this block on the ground?
- The maximum pressure is exerted when the length and breadth form the base.
 - The maximum pressure is exerted when the length and height form the base.
 - The maximum pressure is exerted when the breadth and height form the base.
 - The minimum pressure is exerted when the length and height form the base.
22. A Key of a mechanical piano is first struck gently and then struck again but harder this time. In the second case:
- Sound will be louder but pitch will not be different
 - Sound will be louder and the pitch will be higher.
 - Sound will be louder but pitch will be lower.
 - Both loudness and pitch will remain unaffected.
23. Which of the following metals are produced by the electrolysis of their molten compounds?
- | | | | |
|------------|------------|---------------|------------|
| a - Copper | b - Silver | c - Aluminium | d - Sodium |
| A. a and b | B. b and c | C. c and d | D. only d |
24. A plastic comb is rubbed with dry hair whereas a glass rod rubbed with a piece of silk cloth. Which of these will get negatively charged?
- | | | | |
|-----------------|--------------|-------------|---------------|
| a. Plastic comb | b. Glass rod | c. Dry hair | d. Silk cloth |
| A. a and b | B. b and c | C. a and d | D. b and d |
25. Some sugar is added to half kg flour and mixed with warm water. What will happen after two hours if you add a small amount of yeast powder to it and knead it to make a soft dough?
- The dough will become hard
 - The dough will rise
 - The dough will become soggy
 - The dough will change colour
26. Which one is not necessary among the following for measuring the strength of different fibres?
- The threads of different fibres should be of the same length and thickness
 - The threads of different fibres should be of the same colour
 - The threads of different fibres should hang freely from the clamp
 - The weights should be added one by one on the pan.
27. If you put a burning piece of wood on an iron plate and cover it with a glass tumbler, it will stop burning after sometime because:
- The air supply is cut off
 - The iron cools the piece of wood.
 - The glass tumbler cools the piece of wood
 - The wood does not get enough space to burn
28. Consider the following statements and choose the correct option.
The cause(s) of deforestation is/are:
- | | |
|---|---|
| i. Procuring land for cultivation | ii. Building houses, factories and roads |
| iii. Making furniture or using wood as fuel | iv. Natural causes like forest fires and severe drought |
| A. Only (iv) is correct | B. Only (ii) is correct |
| C. Both (ii) and (iv) are correct | D. All the above statements are correct |
29. Which of the following is correct if you boil a hen's egg and remove its shell?
- The white part contains albumin
 - The yellow part contains albumin
 - Both white and yellow part contain albumin
 - The albumin content of yellow part is greater than white.
30. The type of reproduction in which only a single parent is involved is called:
- Sexual reproduction
 - Asexual reproduction
 - In vitro reproduction
 - Test tube reproduction

31. What was a Farman?
 A. A royal order issued by Aurangzeb B. A royal verdict issued by British
 C. A verdict of rule over Bengal D. None of these
32. The Champaran Movement was against.....
 A. British B. The indigo planters C. Landlords D. Revenue officials
33. Which of these was demerit of Permanent Settlement?
 A. A new class of landlords royal to the British came in front.
 B. Land lords had to sell their lands to pay the tax
 C. It hardly paid any attention rights of farmers
 D. All of these
34. Who said that, "in politics we have equality, and in social and economic life we will have inequality."
 A. Jawaharlal Nehru B. Dr. B. R. Ambedkar
 C. Mahathma Gandhi D. Lal Bahadur Shastri
35. Which one of the following is not correctly matched?
 A. Sericulture - Rearing of silk worms B. Pisi culture - Breeding fish
 C. Viti culture - Cultivation of grapes D. Horti Culture - Rearing of earth worms
36. Which is a common method of conservation of land?
 A. Afforestation B. Agriculture C. Industry D. Dry farming
37. Which one of the following is not a characteristic of minerals?
 A. They are created by natural process. B. They have a definite chemical composition.
 C. They are inexhaustible. D. Their distribution is uneven.
38. Consider the following statements about the revolt of 1857:
 i. On 29th March 1857, a young soldier, Kunwar Singh was hanged to death for attacking his officers in Barackpore.
 ii. On 10th May 1857, the out breaking of the revolt was from the Meerut.
 Which of the above statement(s) is/are correct?
 A. (i) only B. (ii) only C. Both (i) and (ii) D. Neither (i) nor (ii)
39. The law making power of India vests in.....
 A. Supreme Court B. High Court C. Parliament D. People of India
40. Who is known as 'father of Indian Constitution'?
 A. Mahatma Gandhi B. Jawaharlal Nehru
 C. Rajendra Prasad D. Dr. B. R. Ambedkar
41. Pravasi Bharatiya Divas, is celebrated in India on..... each year to mark the contribution of the overseas Indian community to the development of India. The day commemorates the arrival of Mahatma Gandhi from South Africa in Bombay in 1915.
 A. January -9 B. January-15 C. December-1 D. December-10
42. Who won the FIFA Confederation Cup 2013?
 A. Argentina B. Peru C. South Africa D. Brazil
43. The first Governor General of Pakistan is Muhammed Ali Jinnah and the first Prime Minister is Liyaqat Ali Khan. Nawas Sherif was elected as the Prime Minister in recent Election. Who was elected as the new president of Pakistan?
 A. Asif Ali Sardari B. Mamnoon Hussain C. Imran Khan D. Nawas Sherif
44. Who is considered as the 'Father of Indian Planning'?
 A. Manmohan Singh B. M. Visweswarayya
 C. Ahluwalia D. Jawaharlal Nehru

45. Who is known as 'Missile Women' of India?
 A. Indira Gandhi B. Kiran Bedi C. Kalpana Chawla D. Tessy Thomas
46. This famous international research institute is situated in Manila. In abbreviation it is indicated as:
 A. IARI B. ICAR C. IFRI D. IRRI
47. 'PSLV' stands for _____
 A. Polar Satellite Launch Vehicle B. Preventive Satellite Launch Vehicle
 C. Polar Stationary Launch Vehicle D. Pakistan's Satellite Launch Vehicle
48. Who was the inventor of Heart Transplant Surgery?
 A. H.G. Khorana B. Jose K C. James Simpson D. Christian Barnard
49. Who was the first Deputy Chairman of Planning Commission?
 A. Gulzarilal Nanda B. Jawaharlal Nehru
 C. Sucheta Kripalani D. Acharya Kripalani
50. Napoleon Bonaparte belongs to
 A. France B. Austria C. Germany D. England
51. Who among the following attended all the three RTCs (Round Table Conferences)?
 A. Dr. B. R. Ambedkar B. S. N. Banerjee
 C. Mahatma Gandhi D. Pherozsha Mehta
52. What was the name of the party formed by Motilal Nehru and C. R. Das in 1925?
 A. Swaraj Party B. Ghadar Party
 C. Indian National Army D. Indian Independence League
53. The capital of Sudan is
 A. Kharthum B. Tunis C. Abuja D. Tripoli
54. 'Elephanta Caves' are located in
 A. Bihar B. Uttar Pradesh C. Rajasthan D. Maharashtra
55. The 'Statue of Liberty' was a gift to the United States from
 A. Italy B. Germany C. France D. Britain
56. The sports person Tiger Woods(USA) is related to
 A. Golf B. Hockey C. Football D. Archery
57. Who is known as 'Golden Girl of India'?
 A. Kamalijith Sandhu B. Jwala Gutta C. Shyni Wilson D. P.T Usha
58. One GB =
 A. 1024 KB B. 1000 MB C. 1000 KB D. 1024 MB
- 59..... is not an example of programming language
 A. Java B. Linux C. C++ D. V.B
60. Which is the largest open university in the world?
 A. Oxford B. Cambridge C. IGNOU D. JNU
61. 'Jog Falls(Karnataka)' the highest water falls of India is in river
 A. Narmada B. Tapti C. Krishna D. Sharavati
62. Gandhiji started sathyagraha in 1919 to protest against the
 A. Chauri chaura incident B. Rowlat Act C. Salt Law D. Communal Award
63. A Mughal Emperor became the prisoner by his son. Who was the emperor?
 A. Babar B. Akbar C. Shahjahan D. Aurangzeb
64. Which article in Indian Constitution is described as the 'Heart and Soul of the Constitution'?
 A. 17 B. 22 C. 27 D. 32

65. The world classical book 'Utopia' is written by?
 A. Thomas More B. U-Thant C. H.G Wells D. Jane Austen
66. 'I too had a dream' is the autobiography of
 A. Varghese Kurian B. P. T Usha C. M. S Swaminathan D. Amartya Sen
67. Which of the following country is not a permanent member of Security Council of UNO
 A. China B. France C. Italy D. Russia
68. Who is the Deputy Chairman of Planning Commission?
 A. Amartya Sen B. Montak Singh Ahluvalia C. Vijay L. Kelkar D. Manmohan Singh
69. Who is the Chief Justice of India?
 A. Althamas Kabeer B. P. Sathasivan C. H.J Kania D. K.G Balakrishnan
70. Which Indian city is known as 'Manchester of India'?
 A. Ahmedabad B. Mumbai C. Coimbatore D. Chennai
71. Choose the pair that shows the relationship as given
 Commander : Commands
 A. Surgeon:Diagnosis B. Checks:Teacher C. Senator:Legislates D. Specific : Response
72. Suggestion : Order
 A. Advice : Suggest B. Smile : Laugh C. Plan : Implement D. Anger : Shout
73. 4, 10, 22, 46,, 190
 A. 56 B. 16 C. 76 D. 94
74. 25:200, : 256
 A. 16 B. 44 C. 32 D. 42
75. 
 A. 35 B. 37 C. 45 D. 47
76. A man read $\frac{2}{5}$ th of a book on the first day. He read $\frac{1}{3}$ rd more than he read on the first day. 15 pages were left for the 3rd day. The number of pages in the book is
 A. 100 B. 105 C. 225 D. 250
77. In a division sum, the divisor is 12 times the quotient and 5 times the remainder. If the remainder is 48, the dividend is:
 A. 4850 B. 4864 C. 4848 D. 4949
78. The average age of three friends, Rasha, Ribi and Rama is 20 years. The average age of Rasha and Ribi is 19 years. What is the age of Rama?
 A. 20 Yrs B. 21 Yrs C. 22 Yrs D. 24 Yrs
79. Creation, ALS, vajiram, Chanakya and synergy are institutions in the same building but in different floors. Creation is above Vajiram. ALS is below Chanakya. Synergy, is above Creation. There are only five floors in the building. Which institution is in the ground floor?
 A. Creation B. ALS C. Vajiram D. Chanakya
80. Whenever Anil's house gets painted he had allergy problems
 a. Anil didn't have allergy problems b. Anil's house gets painted
 c. Anil had allergy problems d. Anil's house didn't get painted
 A. ad B. dc C. cb D. da

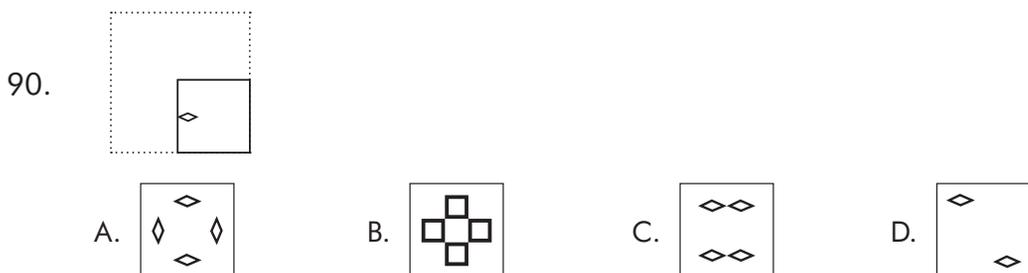
81. Whenever Shahina remembers of surgery she loses sleep
 a. Shahina remembered her surgery b. Shahina didn't remember surgery
 c. Shahina lost sleep d. Shahina didn't lose sleep
 A. ca B. bd C. db D. ad
82. 150, 225, 375, 450, 625. Find the odd one
 A. 150 B. 625 C. 225 D. 375
83. One man and one woman together can complete a piece of work in 8 days. A man alone can complete the work in 10 days. How many days are needed for one woman alone to complete the work?
 A. $140/9$ B. 30 C. 40 D. 42

Read the passage carefully and answer the question numbers 84-87

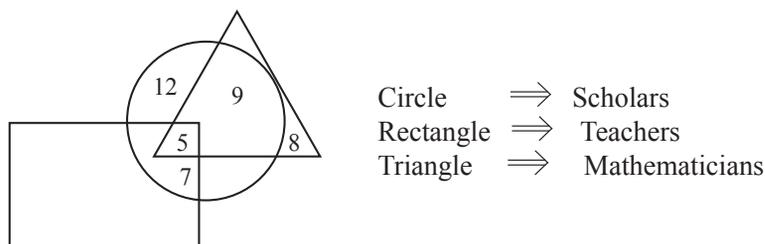
In a class of 45 students, 23 can speak English, 25 can speak Hindi and 8 can speak both English and Hindi

84. How many students speak English only?
 A. 23 B. 20 C. 18 D. 15
85. How many students can speak exactly one language?
 A. 48 B. 45 C. 40 D. 32
86. How many students can speak at least one language?
 A. 48 B. 45 C. 40 D. 32
87. How many students can speak neither English nor Hindi?
 A. 0 B. 5 C. 7 D. 10
88. A and B travel the same distance at 9 km/h and 10 km/h respectively. If A takes 236 minutes longer than B, the distance travelled by each is
 A. 48 km B. 354 km C. 60 km D. 125 km
89. If 70% of students in a school are girls and the number of boys is 780, then the number of girls is
 A. 546 B. 2600 C. 234 D. 1820

A piece of paper is folded and cut as shown in figure. Choose the right answer when it is un folded

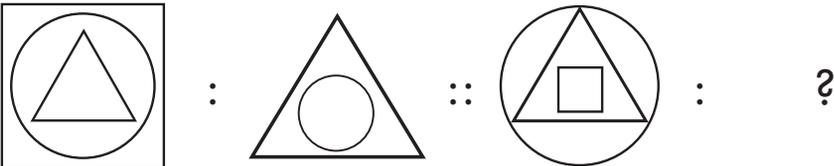
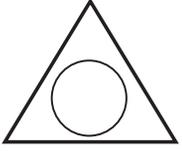
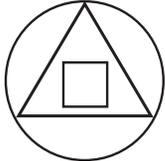


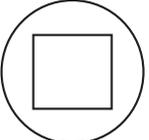
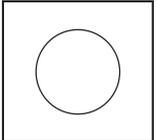
Directions: Answer the questions based on the figure given below:



91. Which of the following numbers represents the group those who are teachers, scholars and mathematicians as well?
 A. 8 B. 22 C. 5 D. 13

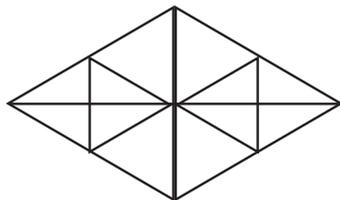
92. Which of the following numbers represents the group of those who are both mathematicians and scholars?
 A. 5 B. 11 C. 14 D. 12
93. Which of the following numbers represents the group of those who are both teachers and scholars ?
 A. 1 B. 12 C. 5 D. 9
94. Find the odd one out
 A. Loss and gain B. Open and close C. Rise and fall D. Love and affection
95. If poets were doctors, poems would be
 A. medicine B. prescriptions C. patients D. clinics

96.  :  ::  : ?

A.  B.  C.  D. 

97. If 8th Nov of 2002 was Tuesday, what was the day on 20th Oct of 2003
 A. Sunday B. Monday C. Friday D. Saturday

98. Count the number of triangles in the following figure

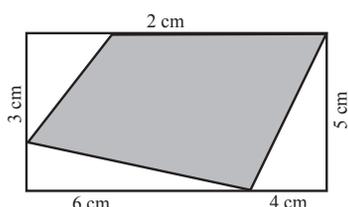


- A. 16 B. 22
 C. 28 D. 23

99. Complete the series: aaa-bb-aab-baaa-bb
 A. abab B. bbaa C. babb D. baab
100. How many 6 are there in the following series which is preceded by 3 and followed by 2?
 263426336392653623634262363
 A. 2 B. 1 C. 4 D. 3

Space for rough works

9. Pick out the correct phrasal verb which carries the meaning 'to leave the ground'.
- A. take off B. rigorously C. leave alone D. fouled
10. What is mentioned in the passage as Hitler's 'secret weapon'?
- A. Aryan superiority B. Race C. Iuz Long D. Jesse Owens
11. Average of 3, 4, 6, x , 10, 25, 30, is 13, then $x = \dots$?
- A. 8 B. 13 C. 11 D. 12
12. If $x + 1/x = 3$, then $x^2 + 1/x^2 = \dots$
- A. 9 B. 10 C. 11 D. none of these
13. The percentage representing the ratio 12:25 is
- A. 42% B. 48% C. 16% D. 58%
14. If a , b and c are side of a triangle then
- A. $A - b > c$ B. $c > a + b$ C. $a + b > c$ D. $a + b = c$
15. Find the area of the shaded portion



- A. 19 cm^2 B. 50 cm^2
 C. 31 cm^2 D. 21 cm^2

16. The diagonal of a rectangle is thrice its smaller side the ratio of its sides:
- A. $\sqrt{3} : 1$ B. $\sqrt{2} : 1$ C. $2\sqrt{2} : 1$ D. 3:2
17. If / mean +, x mean -, + mean x , - mean / then
- $2 + 3 - 3 + 5 / 5 \times 2 = \dots$?
- A. 13 B. 4 C. 30 D. none of these
18. If x , y and z are three real number such that $x > y$, $y > z$ then which if the following is always true
- A. $x = z$ B. $x > z$ C. $z > x$ D. $y = z$
19. Sum of roots of the equation $x^2 - 3x + 10 = 0$ is
- A. 3 B. 10 C. -3 D. none of these
20. If $(x^2 + 4x + 6)(x^2 - 4x + 6) = m^2 - n^2$
- Then $m = \dots$
- A. $x^2 + 6$ B. $4x$ C. $x^2 + x$ D. none of these
21. Which of the following represent correct values for the normal atmospheric pressure?
- a. 101.3 kilopascals b. 76 mm of mercury c. 101.3 pascals d. 76 cm. of mercury
- A. a and b B. b and c C. a and d. D. b and d
22. We can distinguish between the musical sounds produced by different singers on the basis of the characteristic of sound called:
- A. frequency B. timbre C. pitch D. loudness
23. Which of the following compounds is manufactured by using the chemical effect of electric current?
- A. Ammonium hydroxide B. Sodium Carbonite
 C. Magnesium hydroxide D. Sodium hydroxide
24. A woollen cloth is rubbed with ebonite whereas a glass rod is rubbed with a piece of silk cloth. Which of these will get negatively charged?
- a. Glass rod b. Woollen cloth c. Silk cloth d. Ebonite
- A. a & b B. c & d C. a & d D. c & d

25. What is the basis of the use of yeast in the baking industry?
- Slow reproduction of yeast forms soft bread, cakes, pastries, etc.
 - Bubbles of carbon dioxide produced by yeast fills the dough and increase the volume.
 - Rapid reproduction of yeast produces oxygen which increases the volume of the dough
 - Yeast is easily available, easy to handle and inexpensive.
26. Arrange cotton, nylon, silk and wool in the decreasing order of their strength.
- Nylon, silk, cotton, wool
 - Silk, nylon, cotton, wool
 - Nylon, wool, silk, cotton
 - Silk, nylon, wool, cotton
27. What can you observe if you dissolve a mixture of copper sulphate and iron nail in 50 ml of water and keep it undisturbed for some time?
- $\text{Fe} + \text{CuSO}_4 \rightarrow \text{FeSO}_4 + \text{Cu}$
 - No reaction
 - $8\text{Fe} + 3\text{CuSO}_4 \rightarrow \text{ZnS} + \text{CuO}$
 - $2\text{Fe} + 2\text{CuSO}_4 \rightarrow \text{Cu}_2\text{O} + 2\text{FeS}$
28. Consider the following statements and choose the correct option.
The consequence(s) of deforestation is/are:
- Global warming, which disturbs the water cycle and reduces the rainfall.
 - Soil erosion and desertification of land due to frequent floods
 - Melting of snow on the poles, which causes flooding of seas and oceans.
 - Disturbing the habitat of animals, which leads them to face extinction.
- Only (iv) is correct
 - Only (ii) is correct
 - Both (ii) and (iv) are correct
 - All the above statements are correct
29. Which of the following is incorrect regarding the use of cover slip
- The cover slip protects the specimen
 - The cover slip prevents the damage of objective of the microscope
 - There should be air bubble under the cover slip while slide preparation
 - The cover slip is small and made of thin glass
30. When the sperms come in contact with an egg, one of the sperms may fuse with the egg. Such fusion of the egg and the sperm is called:
- Ovulation
 - Fertilization
 - Hybridization
 - Spermatization
31. Who was Peshwa?
- Principal Minister of Marathas
 - King of Marathas
 - King of Awadh
 - None of these
32. Who were asked to collect rent from the peasants and pay fixed revenue to company in Permanent Settlement?
- Headman of Village
 - Revenue Officials
 - Cultivators
 - Zamindars
33. What was the demand of Rani Lakshmbai of Jhansi from British?
- To adopt a daughter
 - To adopt a son
 - To give her back her kingdom
 - To give her pension.
34. Which act was passed to silence the critics of British government?
- Vernacular Press Act
 - Arms Act
 - Rowlatt Act
 - Government of India Act, 1935
35. What type of resource is uranium in Ladakh?
- Actual
 - Potential
 - Biotic
 - Abiotic

36. Consider the following statements:

- i. Resources that are drawn from Nature and used without much modification are called natural resources.
- ii. Roads, bridges, machinery and vehicles are examples of natural resources.

Which of the above statement(s) is/are correct?

- A. (i) only B. (ii) only C. Both (i) and (ii) D. Neither (i) nor (ii)

37. Which of the following is not correctly matched? (mineral resources – Producers)

- A. Iron ore - Europe B. Diamond, Gold - Africa
C. Bauxite - Australia D. Nickel, copper -Antartica

38. 'Shantiniketan' and institution established in 1901 by.....

- A. Rabindranath Tagore B. Mahatma Gandhi
C. Motilal Nehru D. W. C. Banerjee

39. Identify the key features of the Indian Constitution.

- A. Separation of Powers B. Federalism
C. Fundamental Rights D. All the above

40. Who is known as 'father of Indian Constitution'?

- A. Mahatma Gandhi B. Jawaharlal Nehru
C. Rajendra Prasad D. B. R Ambedkar

41. World Oceans Day is an opportunity every year to honour the world's oceans, celebrate the products the ocean provides such as seafood as well as marine life itself for aquariums, pets, and also a time to appreciate its own intrinsic value. The ocean also provides sea-lanes for international trade. Global pollution and over-consumption of fish have resulted in drastically dwindling population of the majority of species. World ocean day is celebrated on

- A. June-5 B. December- 10 C. June- 8 D. December- 15

42. Who was the winner of FIFA confederation cup-2013?

- A. Brazil B. Spain C. Italy D. Uruguay

43. The 35th National Games will be held at Kerala in 2014. The horn bill, the official mascot of the 35th National Games has been named.....

- A. Ammu B. Appu C. Shruti D. Ayush

44. 'Gandhian Plan' was put forward in 1944 by.....

- A. Gandhiji B. J. C. Kumarappa C. Sri Narayan Agarwal D. M. N Roy

45. Who was the Indian Prime Minister when India conducted underground Nuclear Test in 1974, code named as 'Smiling Budha'.

- A. Morarji Desai B. Rajiv Gandhi C. Jawaharlal Nehru D. Indira Gandhi

46. Full form of 'SIDBI'?

- A. Special Industries Development Bank of India
B. Small Industries Development Bank of India
C. Special International Development Bank of Industries
D. Small Industries Department Bank of India

47. Full form of 'UPSC'?

- A. United Public Service Commission B. Union Postal Service Commission
C. Union Public Service Commission D. United Postal Service Commission

48. Who discovered Radium?
 A. Madam Curie
 B. Robert Hooke
 C. Louis Pasteur
 D. Wheeler
49. Who was the first women chief minister of Independent India (Utter Pradesh 1963- 1967)
 A. Vijaya Lakshmi Pandit
 B. Rajkumari Amrit Kaur
 C. Sucheda Kripalani
 D. Annie Basant
50. Which was Napoleon's last battle in which he was captured and exiled to St. Helena?
 A. Battle of Tratalgar
 B. Battle of Wandiwash
 C. Battle of Waterloo
 D. Battle of Panipat
51. Who established the Muhammedan Anglo-Oriental College at Aligarh?
 A. Abul Kalam Azad
 B. Sir Sayid Ahmad Khan
 C. Barakathulla Khan
 D. Ajmal Khan
52. On 17th October 1940, the individual Satyagraha was inaugurated by
 A. Sardar Patel
 B. Mahatma Gandhi
 C. Jawaharlal Nehru
 D. Acharya Vinoba Bhave
53. The capital of Oman is
 A. Muscat
 B. Doha
 C. Beirut
 D. Amman
54. 'The Anand Bhavan' of Allahabad is an important historic place because it is the.....
 A. Ashram of Mahatma Gandhi
 B. House of Nehru Family
 C. House of Rabindranath Tagore
 D. House of Swami Vivekananda
55. The famous Al Aqsa mosque is located in
 A. Mecca
 B. Madina
 C. Jerusalem
 D. Baghdad
56. 'Gary Kasparov (Russia) is related with
 A. Swimming
 B. Golf
 C. Chess
 D. Boxing
57. Who is known as 'Payyoli Express'?
 A. Kamaljit Sandhu
 B. Jwala Gutta
 B. Shyni Wilson
 D. P. T Usha
58. One MB =
 A. 1024 kb
 B. 1000 kb
 C. 1000 bytes
 D. 1024 GB
59. is not an example of operating system?
 A. Linux
 B. Pascal
 C. Windows
 D. MS Dos
60. Which is the largest desert in the world?
 A. Sahara
 B. Gobi
 C. Thar
 D. Great Sandy
61. Which is largest railway platform?
 A. Mumbai
 B. Delhi
 C. Kharagpur
 D. Chennai
62. Who was not a moderate among the following?
 A. Gopala Krishna Gokale
 B. Dadabhai Naoroji
 C. Feroz Shah Metha
 D. Bal Gangadhar Tilak
63. Who is known as 'Tuti- I- Hind' (Parrot of India' in Medieval Period?
 A. Amir Kusro
 B. Zain-ul- Abideen
 C. Tarsen
 D. Nizamudheen Auliya
64. The preamble of Indian constitution has been amended
 A. Once
 B. Twice
 C. Thrice
 D. Never

81. $24 \frac{2}{13} \frac{48}{39}$
 $16 \frac{?}{80}$
 A. 3 B. 2 C. 5 D. 4
82. The maximum number of Sundays possible in a leap year is.....
 A. 51 B. 52 C. 53 D. 54
83. $(4 \times 3) / \frac{1}{2} = \dots\dots\dots$
 A. 3 B. 6
 C. 12 D. 24
84. In what ratio must water be mixed with milk to gain 20% by selling the mixture at cost price?
 A. 1:5 B. 1:4 C. 2:5 D. 2:7
85. Mehna says to her young brother "I'll hide myself at a place where you can reach first by going to the North. Then you will have to walk an equal distance to the East. From here you will go twice the distance to the South and finally twice the distance to the west. Which direction, from the place of conversation, is the hiding place?
 A. East B. West C. North D. South west
86. A can do a work in 15 days and B can do it in 10 days. B works at it for 5 days and then leaves. A alone can finish the remaining work in
 A. $6 \frac{1}{2}$ days B. $7 \frac{1}{2}$ days C. 8 days D. $8 \frac{1}{2}$ days
87. Three partners A, B and C invest Rs. 36000, Rs 45000 and Rs. 54000 respectively in a business. Out of a total profit of Rs 37500, C's share is
 A. Rs. 12500 B. Rs. 15000 C. Rs. 10000 D. Rs. 15500
88. 60 kg of an alloy A is mixed with 100 kg of alloy B. If alloy A has lead and tin in the ratio 3:2 and alloy B has tin and copper in the ratio 1:4, then the amount of tin in the new alloy is:
 A. 36 kg B. 44 kg C. 53 kg D. 80 kg
89. A tells B, "If you give Rs.400, I shall have 25% more than what you have." B tells A, " If you give one Rs.200, I shall have three and a half times as much you have." How much does B have?
 A. 1200 B. 900 C. 800 D. 1600
90. Shabna travelled 4 kms through a straight road from her house. Then she turned right and travelled 2 kms through the straight road. Again she turned right and travelled 2 more kilometres through the straight road. Now what is the shortest distance to her house.
 A. 4 kms B. Less than 4 kms C. more than 4 kms D. none of these
91. The width of a rectangle is 2 metres less than its length and its perimeter is 32 metres. Then the area of the rectangle is
 A. 224 m^2 B. 108 m^2 C. 99 m^2 D. 63 m^2
92. Three years ago the average age of A and B was 18 years. With C joining them now, the average becomes 22 years. How old is C now?
 A. 33 B. 24 C. 22 D. 20
93. A man buys a toy for Rs. 25 and sells it for Rs. 30. Find the gain percent
 A. 16.67% B. 25% C. 20% D. 13.33%
94. If $A : B = 3 : 2$ and $B : C = 4 : 3$, then $A : B : C = \dots\dots\dots$
 A. 3 : 2 : 1 B. 3 : 2 : 3 C. 3 : 4 : 3 D. 6 : 4 : 3

95. $\sqrt[3]{1000} + \sqrt[3]{0.008} + \sqrt[3]{0.125}$ is equal to

- A. 9.7 B. 9.97 C. 9.997 D. 9.9997

96. $2/7 + 4/9 = ?$

- A. 8/63 B. 46/63 C. 8/16 D. 46/16

97. In a certain code BEAUTY is written as DHEZZF. How is FLOWER written in the same code.

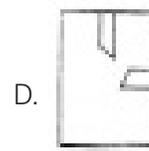
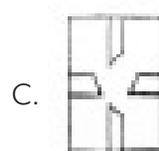
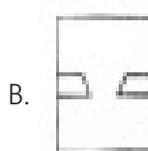
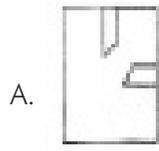
- A. HSOBYK B. HBOSKY C. SBKYOH D. HOSBKY

98. Ram wears a cap every time he plays

- a. Ram played b. Ram didn't play c. Ram wore a cap d. Ram didn't wear a cap

- A. bd B. ca C. db D. ad

99. A piece of paper is folded and cut as shown in figure. Choose the right answer when it is unfolded.



100. A man started from a point A towards South and travelled 5km. Then he turned right and travelled 2km. Then he turned right and travelled 5km. Then he turned left and travelled 5km. How far was he from the point A?

- A. 5km B. 15km C. 7km D. 17km

Space for rough works