

MTS EXAMINATION 2012

QUESTION PAPER

Class : X

10

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 from 1 to 4.

He is a lover of languages, fluent in German, French and English and of course, his mothertongue Tamil. Teaching German at the Goethe Institute upto seven days a week and heading the Distant Learning Programme in cooperation with IGNOU, keep him very busy. As if his life wasn't hectic enough, P Saralathan has translated Franz Kafka's 'Letter to the Father' from the original German text into Tamil. The Tamil translation is entitled 'Thandaiku'. Saralathan says that he was inspired to translate 'Letter to the Father' for the potential of Kafka's words make us look at the power wielded by Indian parents over their children. In a rare departure from contemporary Indian or Tamil literature, this book explores a son's pent up remorse towards his father. It is not to say that a son in India cannot feel for his father, but according to Saralathan, it is something that is not really discussed openly in our patriarchal society.

1. What makes Saralathan extremely busy?
 - A. Seven days of teaching at Goethe Institute
 - B. Heading the Distant Learning Programme
 - C. Translation of Kafka's book into Tamil
 - D. All the above.
2. Why did he translate 'Letter to the Father' into Tamil?
 - A. to make us understand the power of Indian parents over their children
 - B. to make us understand Kafka's ideas
 - C. to educate Indian parents
 - D. none of the above
3. What has this book tried to explore?
 - A. a son's anger towards his father
 - B. a son's repressed remorse towards his father
 - C. a son's remorse towards his father
 - D. a son's affection towards his father
4. The word 'pent up' in the passage means
 - A. piled up
 - B. cordial
 - C. repressed
 - D. affectionate
5. Choose the correct option to fill in the blanks:

It is time

 - A. I shall go to bed
 - B. I go to bed
 - C. I am going to bed.
 - D. I went to bed

6. He reminded me, "God rules and governs all things."
Which among the options rightly reports the above sentence?
A. He reminded me that God rules and governs all things.
B. He reminded me that God ruled and governed all things.
C. He reminded me of God having ruled and governed all things.
D. He reminded me that it is God who rules and governs all things.
7. Which one is the passive form of the following question?
Who is laughing at the beggar?
A. The beggar is laughing at whom? B. By whom is the beggar being laughed at?
C. Who is being the beggar laughed at? D. Who is the beggar laughing at?
8. The teacher told me not *to beat about the bush*. The italicized phrase means
A. to tell lies. B. to destroy grass. C. to talk irrelevantly D. to stammer
9. Which of the following is opposite in meaning to the word 'indigenous'?
A. superfluous B. heterogeneous C. aboriginal D. exotic
10. It is hard to put up with him. This means that
A. It is hard to tolerate him. B. It is hard to punish him.
C. It is hard to please him. D. It is hard to forgive him.
11. Which treaty recognised Greece as an independent nation?
A. Treaty of Vienna B. Treaty of Constantinople
C. Treaty of Versailles D. Treaty of Paris
12. At which session of Congress was the resolution of Poorna Swaraj adopted?
A. Bombay Congress B. Karachi Congress
C. Lahore Congress D. Lucknow Congress
13. The Jallianwala Bagh incident took place in
- A. 1917 B. 1921
C. 1918 D. 1919
14. Which Indian leader has said, 'River dams are the temples of modern India'?
A. Jawaharlal Nehru B. Pandit Madan Mohan Malavya
C. Lala Lajpat Rai D. Subash Chandra Bose
15. Limestone is the basic raw material for one of the following industries? Which one?
A. Fertilizer Industry B. Cement Industry
C. Iron and Steel Industry D. Automobile Industry
16. Which one of the following is not a multi-purpose River Valley Project of North India?
A. Damodar Valley Project B. Bhakra Nangal Project
C. Tungabhadra Project D. Chambal Valley Project
17. Which one of the following occupation is not associated with primary sector?
A. basket weaving B. gardening
C. pottery D. priesthood
18. The struggle in Bolivia in 2000 was
- A. due to increase in price of water B. to have a re election
C. due to racial discrimination D. to establish democracy

19. Which one of the following is not a national party?
 A. The Indian National Congress B. The Asam Gana Parishad
 C. The Bharatiya Janatha Party D. The Bahujan Samaj Party
20. What is the sum of first n natural numbers?
 A. $\frac{n(n-1)}{2}$ B. n^2 C. $\frac{n(n+1)}{2}$ D. $[\frac{n(n+1)}{2}]^2$
21. What is the 100th term of the series 1, 1, 1,?
 A. 200 B. 100 C. 50 D. 1
22. The discriminant of the quadratic equation $2x^2 - 4x + 3 = 0$ is
 A. -8 B. 8 C. 4 D. -4
23. How many tangents can be drawn to a circle at any point of it?
 A. 2 B. 1 C. 3 D. none of these
24. In $\triangle ABC$ $AB = 6\sqrt{3}$, $AC = 12\text{cm}$ and $BC = 6\text{cm}$ The angle B is
 A. 120° B. 60° C. 90° D. 45°
25. If r is the radius of a circle, then the area of the semicircle is
 A. πr B. $2\pi r$ C. $\frac{1}{4}\pi r^2$ D. $\frac{1}{2}\pi r^2$
26. The most frequently used measure of central tendency is
 A. mean B. mode C. median D. none of these
27. If $\tan = \sqrt{3}$, then the value of sin is
 A. $\frac{1}{\sqrt{3}}$ B. $\frac{\sqrt{3}}{2}$ C. $\frac{2}{\sqrt{3}}$ D. 1
28. The decimal expansion of $\frac{17}{8}$ is
 A. 2.375 B. 2.25 C. 2.125 D. 2.0125
29. The degree of a quadratic polynomial is
 A. 0 B. 1 C. 3 D. 2
30. Two consecutive positive integers differ by
 A. 1 B. 2 C. 3 D. 4
31. What is the common difference of the A.P?
 7, 3, -1, -5,
 A. -2 B. -4 C. 4 D. 2
32. Two resistances $1\ \Omega$ and $2\ \Omega$ are connected in series and then in parallel. The ratio of the effective resistance of series and parallel combination of resistance is
 A. 2.9 B. 3.1 C. 9.2 D. 1.2
33. The reaction taking place in the core of sun is
 A. nuclear fission B. radio activity
 C. decomposition D. nuclear fusion
34. Mirror used by a Dental Surgeon is
 A. convex B. plane C. concave D. biconvex
35. What is the focal length of a spherical mirror, whose radius of curvature is 20cm?
 A. 46cm B. 10cm C. 20cm D. 30cm

36. Which of the statements about the reaction below is incorrect?
 $2\text{Pb}(s) + \text{C}(s) \rightarrow 2\text{Pb}(s) + \text{CO}_2(s)$ (i) Lead is getting reduced (ii) carbon is getting oxidized (iii) carbon dioxide is getting oxidised (iv) Lead oxide is getting reduced
 A. (i) (ii) and (iii) B. (i) and (ii) C. (i) and (iii) D. All
37. The process of smelting is associated with the extraction of
- A. Potassium B. Sodium C. Aluminium D. Iron
38. An organic compound 'A' is a constituent of wine and beer. This compound on heating with Alkaline Potassium Permanganate gives another organic compound 'B' which turns blue litmus to red. Identify the compound 'A'
- A. $\text{C}_2\text{H}_5\text{OH}$ B. CH_3COOH C. $\text{CH}_3\text{COO}_2\text{H}_5$ D. CH_4
39. Growth of a tendril is an example for
- A. Phototropism B. Thigmotropism C. Hydrotropism D. Geotropism
40. Blood pressure is measured by the instrument called
- A. Thermometer B. Barometer C. Sphygmomanometer D. Stethoscope
41. Winner of Man Booker International Prize of 2011 is
- A. Arundhati Roy B. J M Coetzee C. Kiran Desai D. Philip Roth
42. The current Air Chief Marshal (ACM) of India is
- A. Norman Anil Kumar Browne B. Anil Tipnis
 C. Satish Sareen D. Pradeep Vasant Naik.
43. National Film Award winner for best Cinematographer 2011.
- A. Santosh Sivan B. Madhu Ambat C. Ravi K Chandran D. Venu
44. World renowned Cartoonist who died recently in Goa is
- A. Charles Adams B. O V Vijayan C. Mario Miranda D. None of these
45. Union Minister for Law and Justice is
- A. Ambika Soni B. C P Joshi C. Kumari Selja D. Salman Khurshid
46. Kiran Kumar Reddy is the Chief Minister of
- A. Andhra Pradesh B. Karnataka C. Haryana D. Manipur
47. INTERPOL means.
- A. International Political Conference. B. International Criminal Police Organisation
 C. International Association of Police Officers D. International Police Commission
48. The full form of CBSE.
- A. Central Bureau of Secondary Education B. Central Board of Primary Education
 C. Central Board of Secondary Education D. Council of Board of Secondary Education
49. India is a federal state because its constitution provides for
- A. dual citizenship B. dual judiciary
 C. written constitution D. sharing of powers between states and the centre
50. Which of the following is not a Fundamental Right?
- A. Equal pay for equal work B. Right against exploitation
 C. Equality before law D. Right to freedom of religion
51. World famous Hindustani Classical Shehnai player who received Bharata Ratna in 2001.
- A. Pandit Bhimsen Joshi B. Ustad Bismilla Khan
 C. Pandit Ravi Shankar D. Aruna Asaf Ali

52. The current President of People's Republic of China is
- A. Hugo Chavez B. Yoshihiko Noda C. Hu Jintao D. Putin
53. Who started the 'Hindustan Socialist Republican Association' in 1928?
- A. Motilal Nehru B. Bal Gangadhar Tilak
C. Sarojini Naidu D. Chandra Shekhar Azad
54. Name the freedom fighter and the first Minister of Education of free India.
- A. Maulana Abul Kalam Azad B. Zakir Hussain
C. Krishna Menon D. C. Rajagopalachari
55. Pick out the capital of Jordan.
- A. Tokyo B. Amman C. Kabul D. Beirut
56. Buddhist Monuments at are included in the list of World Heritage monuments of India.
- A. Hyderabad B. Delhi C. Sanchi D. Ellora
57. There are four animals in the Lion Capital at Saranath. Which are these animals?
- A. Bull, Horse, Lion and Tiger B. Elephant, Bull, Horse and Lion
C. Elephant, Cow, Tiger and Lion D. Elephant, Lion, Cow and Tiger
58. Which team won the Gold medal in men's Kabaddi in Asian Games 2010.
- A. India B. Pakistan C. Nepal D. China
59. Davis Cup is associated with
- A. Hockey B. Tennis C. Football D. Cricket
60. Logarithms is invented by
- A. Waterman B. Seeley C. John Napier D. G. Bradshaw
61. Endoscope is an instrument used to
- A. measure changes in volume of substances.
B. measure intensity of sound
C. measure blood pressure.
D. examine internal parts of the body.
62. Mona Lisa is a
- A. painting B. fiction C. dance drama D. Sculpture
63. Parliament of Japan is called
- A. Dail B. Diet C. Cortes D. Sejim.
64. Balkan War I between Turkey and Balkan Countries started in
- A. 1913 B. 1914 C. 1912 D. 1910
65. The Headquarters of European Union (EU) is at
- A. Geneva B. Madrid C. London D. Brussels
66. A world wide organisation that investigates violations of human right is
- A. Amnesty International B. Red Cross International
C. G 15 D. SEATCO
67. The largest delta in India is
- A. Kaveri Delta B. Sunderbans C. Godavari Delta D. Indus Delta

68. The tallest man made dam in the world is
- A. Mica Dam B. Oroville Dam C. Nurek Dam D. Hoover Dam
69. Who was the first Prime Minister who did not face the Parliament during his tenure?
- A. Morarji Desai B. Gulzari Lal Nanda
C. Lal Bahadur Shasthri D. Charan Sing
70. The first man to reach South Pole is
- A. Ronald Amundson B. Robert Peary
C. Yuri Gagarin D. Junko Taibei
71. First Lok Sabha Speaker of India is
- A. MA. Ayyangar B. GV. Mavalankar C. Sanjiva Reddy D. Rabi Ray
72. The 'City of Seven Hills' is
- A. Paris B. Beijing C. Rome D. Tehran
73. Who is known as the 'Little Fellow'?
- A. Sunil Gavaskar B. Sachin Tendulkar C. Amir Khan D. Charlie Chaplin
74. 'Anavaariyum Ponkurishum' is a work written by
- A. Vaikom Mohammed Basheer B. Anand
C. Thakazhi D. N P Mohammed
75. Who authored the famous book 'We Indians'?
- A. Amita Malik B. Khuswant Singh
C. K A Abbas D. Mulk Raj Anand
76. If you are eleventh in a queue starting from either end, how many are there in the queue?
- A. eleven B. twenty two C. twenty one D. twenty
77. If 9th of April falls two days after tomorrow, that is Wednesday, the last day of the month will be
- A. Monday B. Friday C. Saturday D. Wednesday
78. X is the brother of Y. Y is the wife of Z. Z is the brother of W. What is W to X?
- A. brother in law B. daughter C. son D. sister-in-law
79. Horse is to Mare as Fox is to
- A. Lioness B. Vixen C. Wolf D. Rabbit
80. Point out the stranger in the given group.
- A. Sitar B. Violin C. Flute D. Lyre
81. BYZA : XCDE :: DWXY : ?
- A. FTUV B. VEGH C. EFGH D. VEFG
82. In the series 45, 35, 30, 20, 15, P, Q. (X) Q stands for -5. (Y) P stands for +5
- A. Statement at Y is correct but at X is incorrect
B. Statement at Y is incorrect and at X is incorrect
C. Both statements are correct
D. Statement at X is correct
83. If 8514 stands for BEAD and 3165 stands for LATE, then which choice stands for the word TABLE?
- A. 86145 B. 61835 C. 61853 D. 61584

84. 'Theory' is to 'Practice' as 'Planning' is to
- A. Practical B. Organisation C. Execution D. Method
85. Complete the series.
A A C B B B D C C C E
- A. ED B. DE C. EE D. DD
86. In a certain code, PAPER is written as SCTGW. How will MOTHER be written in that code?
- A. PQXJJT B. PQVJGT C. ORVLGW D. PQXKJV
87. If 7645321 denotes READING, what will 762567 mean?
- A. DURING B. RENDER C. READER D. DEARER
88. 6, 13, 28,
- A. 56 B. 57 C. 59 D. 58
89. Which one number is 'wrong' in the following series?
- A. 42 B. 132 C. 440 D. 506
90. A is 40 m south-west of B and C is 40 m south-east of B. C is in which direction of A?
- A. East B. West C. South D. North-East
91. A cube is painted green on all sides. It is then cut into 64 cubes of equal size. How many of these smaller cubes are painted on one side only?
- A. 4 B. 24 C. 16 D. 8
92. What is X?
21, 8, 46, X, 2, 92, 16, 42
- A. 4 B. 8 C. 1 D. 10
- 93.
- △

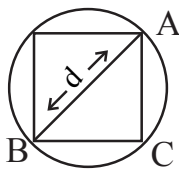
△
○

△
□

..... ?
- A. B. C. D.
94. Find the missing number.
- | | |
|----|---|
| 7 | 2 |
| 42 | 3 |

9	1
18	2

5	-2
?	-3
- A. 30 B. -30 C. 18 D. 13
95. What is 'CAP' if A = 1 and BAT = 23?
- A. 21 B. 20 C. 22 D. 27
96. Area of ABC in the following diagram is



- A. d^2 B. $d^2/2$ C. $d^2/4$ D. $2d^2$

97. In a row of boys, Akash is fifth from the left and Nikhil is eleventh from the right. If Akash is twenty fifth from the right then how many boys are there between Akash and Nikhil?

- A. 12 B. 14 C. 15 D. 13

98. If '+' means '-', '-' means 'x', 'x' means '÷' and '÷' means '+', then $2 \div 6 \times 6 \div 2 = ?$

- A. 5 B. 0 C. 10 D. 1

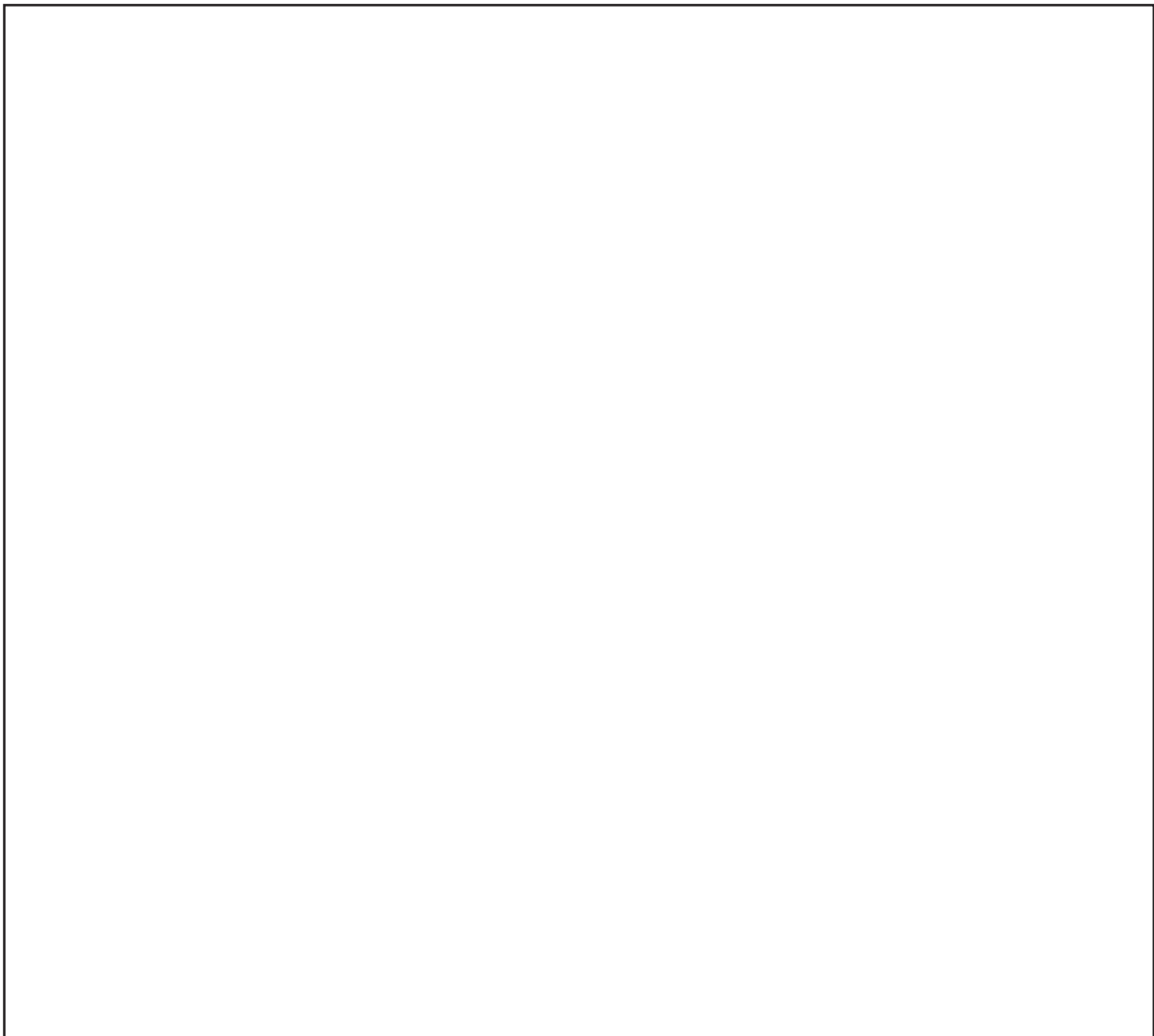
99.



- A. B. C. D.

100. If 'P' means 'X', 'R' means '+', 'T' means '÷' and 'S' means '-', then $18T3P9S8R6 = ?$

- A. $-1\frac{1}{3}$ B. 46 C. 52 D. $\frac{2}{3}$



MTS EXAMINATION 2013
QUESTION PAPER

10

Class: X

Register No:

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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.

In the following passage numbered blank spaces are given. For each blank space some words or phrases are given in the answer choice. Pick the most appropriate answer choice for each blank space.

I would like to quote, Dr. Radhakrishnan's inspiring message. It is as 1 today as when it was made. To quote them : " We have many problems 2 us and with faith in ourselves and confidence in our future, we 3 tackle them. When hardship leaves man, when smugness creeps in our energies decay our spirits droop. We will get near our zenith.

1. A. prevalent B. appropriate C. correct D. relevant
2. A. defacing B. to face C. facing D. confronting
3. A. had B. have to C. were to D. have

Which word best expresses the meaning of the word underlined

4. The richman possesses many superfluous things:
 A. superior B. needless C. essential D. expensive
5. The child the mother a lot.
 A. resembles with B. resembles by C. resembles at D. resembles

Report the following sentence

6. The teacher asked Tom, "Can you bring your notes tomorrow?"
 A. The teacher asked Tom whether can you bring your notes tomorrow.
 B. The teacher asked Tom whether he could bring his notes the next day.
 C. The teacher asked Tom whether you can bring your notes.
 D. The teacher asked Tom whether he could bring his notes tomorrow.
7. Electrical resistivity of a given metallic wire depends on
 A. its length B. its thickness
 C. its shape D. nature of the material
8. Over loading is a phenomena of more
 A. Voltage B. Current
 C. Resistance D. Resistivity
9. When water is added to quick lime the reaction is
 A. Explosive B. Endothermic
 C. Exothermic D. Photochemical
10. Digestion does not take place in
 A. Large intestine and oesophagus B. Large intestine and stomach
 C. Oesophagus and stomach D. Intestine and oesophagus

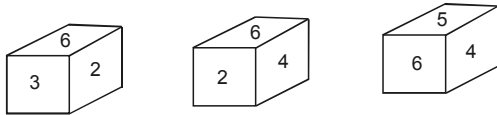
11. If the ratio of the volume of two spheres is 8:1 then what is the ratio of their diameter?
 A. 2:1 B. 4:1 C. 3:1 D. 6:1
12. If seven times of the 7th term of an AP is equal to the eleven times the 11th term, then its 18th term is equal to
 A. 0 B. 7 C. 11 D. 18
13. After how many places the decimal form of $\frac{125}{2^4 \times 5^3}$ will terminate?
 A. 3 B. 4 C. 2 D. 5
14. If α and β are zeroes of $x^2 - 5x + 7$, then the value of $(\alpha + \beta)$ is
 A. -5 B. 7 C. -7 D. 5
15. If $\sin \theta = \frac{24}{25}$, the value of $\tan \theta + \sec \theta$ is
 A. 5 B. 7 C. 8 D. 9
16. If the median of $\frac{x}{5}, x, \frac{x}{4}, \frac{x}{2}$ and $\frac{x}{3}$ is 8 then the value of x will be
 A. 8 B. 16 C. 24 D. 32
17. What marked the beginning of the civil disobedience movement?
 A. Chauri - Chaura incident B. Jallian Wall Bagh incident
 C. Salt Satyagraha D. Quit India movement
18. H.D.I. (Human Development Index) rank of India in the world out of 187 countries in 2011 was
 A. 93rd B. 134th C. 130th D. 125th
19. Panki Thermal Power Plant is situated in the state of
 A. Uttar Pradesh B. Bihar C. West Bengal D. Maharashtra
20. Which of the following is not a national political party?
 A. CPI (M) B. Bahujan Samaj Party
 C. Bharatiya Janata Party D. Assam Gana Parishad
21. Find out the missing number 2, 9, 28, 65
 A. 121 B. 165 C. 126 D. 100
22. Complete the series
 b - bacab - baca - cbaca -
 A. cbbb B. bcba C. ccab D. abcb
23. 42:56:110 :
 A. 132 B. 140 C. 145 D. 150
24. The increasing population rate of a village is given below. Find the missing population from the following information.
- | | | | | | | |
|------------|------|------|------|------|------|------|
| Year | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 |
| Population | 4 | 8 | 16 | ? | 44 | 64 |
- A. 22 B. 32 C. 28 D. 34
25. If '-' stands for division, '+' stands for multiplication, '÷' stands for subtraction and 'x' for addition, then which one of the equations is correct?
 A. $19+5-4x2\div 4=11$ B. $19x5-4\div 2+4=16$
 C. $19\div 5+4-2x4=13$ D. $19\div 5+4+2\div 4=20$

26. In a class of 42 children, Jaseem's rank is sixteenth from the top. Aseem is seven ranks below Jaseem. What is Aseem's rank from the bottom?
 A. 22nd B. 20th C. 19th D. 23rd

Question 27-29 are based on the series given below.

CLRT BQSM APD INF JK GYX

27. Four of the following are alike in a certain way and so form a group. Which is the one that does not belong to the group?
 A. LBT B. SPA C. IJF D. PID
28. If CT is related to RQ and AI is related to DF, to which of the following is SP related to?
 A. MD B. DN C. AD D. AI
29. What will come in place of the question mark?
 CR LB TM SI ?
 A. PK B. DK C. DG D. NX
30. Which number is on the face opposite to 6?



- A. 1 B. 2 C. 3 D. 4
31. Which one of the following is correct?
 $6 \times 4 \times 9 \times 15$
 A. x, =, - B. x, -, = C. -, x, - D. -, x, =
32. Man: crowd :: Flower :
 A. branch B. plant C. bouquet D. fruit
33.

?	8
216	64

 A. 512 B. 343 C. 729 D. 1000
34. Mirage: Desert :: ___ : ___
 A. sky: illusion B. rain: rainbow C. image: mirror D. rainbow: sky

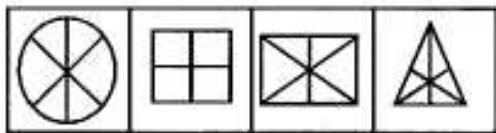
Questions 35 & 36: Three of the following are alike in a certain way and hence form a group.

Which is the one that does not belong to the group?

35. A. GKI B. FJG C. PTR D. MQO
36. A. CXBD B. FUEG C. DWCE D. EVGH
- 37.

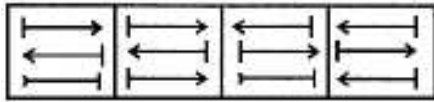
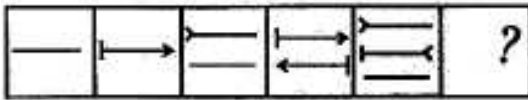


Choose the correct answer from the figures given below



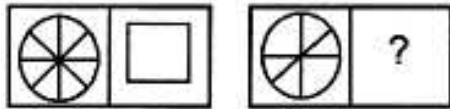
- A. B. C. D.

38. Which is the next figure?



A. B. C. D.

39.



A. B. C. D.

40. If ACELDNRA stands for CALENDAR what does LEGIBIEL stand for?

A. LIGIBLE B. BIGEELIC C. ELIGIBLE D. BIGLILE

Read the problem and answer the questions 41 and 42.

SAM walked 5 miles towards north from point A and reached point B. He took a right turn from point B and walked 7 miles and reached point C. He took a right turn from point C and walked 10 miles to reach point D. He took another right turn from point D and walked 6 miles to reach point E. SAM took a right turn from point E and walked 5 miles to reach a point F.

41. How far and in which direction is point F from point A?

A. 1 mile towards east B. 1 mile towards south
C. 1 mile towards north D. 1 mile towards west

42. What was the total distance that Sam walked ?

A. 35 B. 33 C. 30 D. 32

43. Two numbers are such that the sum of thrice the first number and twice the second number is 200, and twice the first number minus thrice the second number is 25. The numbers are

A. 50, 25 B. 50, 20 C. 20, 25 D. 20, 30

44. Salaries of Ajay and Vijay together amount to Rs. 12000. Ajay spends 80% of his salary and Vijay spends 90% of his salary. If their savings are the same, what is the salary of Vijay?

A. Rs. 2000 B. Rs. 4000 C. Rs. 10000 D. Rs. 8000

45. Shan is 55 years old. Sathyan is 5 years junior to Shan and 6 years senior to Balu. The youngest brother of Balu is Deva and he is 7 years junior to him. So what is the age difference between Deva and Shan?

A. 18 years B. 15 years C. 13 years D. 7 years

46. A and B are sisters. A is the mother of D. B has a daughter C who is married to F. G is the husband of A. How is B related to F?

A. mother B. mother-in-law C. sister-in-law D. brother

47. Arrange the words in a logical order

1) cut 2) put on 3) mark 4) measure 5) tailor

A. 4-3-1-5-2 B. 3-1-5-4-2 C. 2-4-3-1-5 D. 1-3-2-4-5

48. In a certain code 'SENSITIVE' is written as QHLVGWGYC. How is 'MICROSOFT' written in that code?
 A. KGAMPQMDT B. QKETQUQHV C. KLAUMVMIR D. LKBTNUNHS
49. Find the missing number
-
- A. 15 B. 13 C. 12 D. 10
50. Five boys M, N, O, P and Q are standing in a row. P is on the right of 'O'. N is on the left of Q, but is on the right of M. 'P' is on the left of O. Who is standing on the extreme right?
 A. Q B. N C. O D. P
51. 12 buckets of water fill a tank when the capacity of each bucket is 13.5 litres. How many buckets of water will be needed to fill the same tank, if the capacity of each bucket is 9 litres?
 A. 8 B. 18 C. 15 D. 16
52. The power and square root places in the equation below require numbers to be inserted.
 $3^{(?) + \sqrt{?}} - (2)^2 = 10$
 A. 2, 4 B. 5, 81 C. 4, 16 D. 2, 25
53. BARC, Bhabha Atomic Research Centre, is one of the prestigious institutes in India. Who is the Director of BARC at present ?
 A. Ratan Kumar Sinha B. Sekhar Basu
 C. Anil Kakodar D. S.K.Jain
54. Who is the second successive winner in Indian Formula One Grand Prix car race competition at Buddh International Circuit in Delhi?
 A. Fernando Alonso B. Narain Karthikeyan
 C. Mark Webber D. Sebastian Vettel
55. Who is the current Prime Minister of Australia?
 A. David Cameron B. Abhisit Vejjajiva
 C. Julia Gillard D. Barnabas Sibusiso Dalmini
56. Which swimmer created a record by winning the highest number of Olympic gold medals?
 A. Larisa Lalygina B. Michael Phelps C. Paavo Nurmi D. Mark Spitz
57. Which film won the Oscar in the Best Film Category at 2012 Academy Awards?
 A. The Artist B. War Horse
 C. A Dangerous Method D. Young Adult
58. Which country banned the use of social networking sites like Twitter and Facebook from Television or Radio, considering it as an act of advertising?
 A. England B. Germany C. Iran D. France
59. Who was nominated for a Golden Globe Award for composing the background score for Danny Boyle's film 127 hours?
 A. A.R. Rahman B. Viola Davis C. Rooney Mara D. George Clooney

60. What is the portfolio of Mr. Salman Khurshid?
 A. Minority affairs
 B. External affairs
 C. Social Justice
 D. Petroleum and natural gases
61. Who is not associated with Anna Hazare's movement, "India Against Corruption"?
 A. Kejriwal
 B. Shanthi Bhushan
 C. Kiran Bedi
 D. Arundhati Roy
62. Janani-shishu surakshakaryakramam is a project of central government to provide
 A. Free food and shelter to the abandoned children
 B. Dwelling facilities to the widows
 C. Free services to the pregnant women
 D. Free and compulsory education to girl children.
63. Which is the tallest Monolithic Statue in India?
 A. Vivekananda at Kanyakumari
 B. Veera Abhaya Anjaneya
 C. Gomateswara Statue
 D. Hanuman in Nandura
64. What is the portfolio of Ajith Singh ?
 A. Commerce and Industry
 B. Civil Aviation
 C. Chemical and fertilizers
 D. Mines
65. Which department is led by minister Aryadan Muhammed?
 A. Excise
 B. Power
 C. Revenue
 D. Public Works
66. Who is the author of the book "Nalukettu"?
 A. M.T. Vasudevan Nair
 B. M. Mukundan
 C. Vilasini
 D. C. Radhakrishnan
67. TOEFL is test administered by Educational Testing Service. It is necessary to get admission to American Universities. In TOEFL what do the letter E and F represent?
 A. English, Fluency
 B. English, Facility
 C. English, Faculty
 D. English, Foreign
68. VSSC is a prestigious national institution named after Vikram Sarabhai. What do the last two letters, SC represent?
 A. Social Centre
 B. Space Centre
 C. Sports Centre
 D. Smart Centre
69. What is the expansion of VAT?
 A. Value Added Tax
 B. Value Additional Tax
 C. Value Added Tabulation
 D. Value Addition Tabulation
70. Who discovered the metal detector & bullet proof?
 A. John Loud
 B. Graham Bell
 C. Rontgen
 D. Humphry Davy
71. Alfred Nobel, because of a particular invention, instituted the Nobel Prize. Which one is this invention?
 A. Dynamo
 B. Revolver
 C. Dynamite
 D. Atom Bomb
72. Who discovered Super Conductivity ?
 A. Frank Liby
 B. Kamerlingh ones
 C. J.J.Thompson
 D. James Chad Wick
73. This leader was known as 'Abu Ammar'. He was the chairman of PLO and first president of Palestine National Authority. Who was he?
 A. Ismail Haniya
 B. Mahmood Abbas
 C. Khalid Mishal
 D. Yasar Arafath
74. Who is the Father of Green Revolution in India?
 A. Varghese Kurian
 B. M.S.Swaminaathan
 C. Norman Borlaug
 D. C.Subramaniam

75. This national leader is the last Governor General of India. Who is he?
 A. Jawaharlal Nehru
 B. C.Rajagopalachari
 C. Sardar Patel
 D. Lal Bahadur Shastri
76. Who was this Indian revolutionary who participated in Maipuri Conspiracy of 1918 and the Kakori Conspiracy of 1925; both against British Empire?
 A. Bhagat Singh
 B. Ramprasad Bismil
 C. Subhash Chandra Bose
 D. Sachindra Nath Sanyal
77. She was known as the Nightingale of India and was the first Indian Woman to become the President of Indian National Congress. Who was she?
 A. Vijaya Lakshmi Pandit
 B. Rajkumari Amrith Kaur
 C. Sarojini Naidu
 D. Suchetha Kripalani
78. Who was known as the Jhansi Rani of Travancore?
 A. Accama Cheriyan
 B. A.V.Kuttimalu Amma
 C. Ammu Swaminathan
 D. Kaumudi Teacher
79. Which is the capital of Ethiopia?
 A. Accra
 B. Amman
 C. Addis Ababa
 D. Nairobi
80. Bishkek is the capital of
 A. Kazakhstan
 B. Uzbekistan
 C. Azerbaijan
 D. Kyrgyztan
81. Name the country of which Hugo Chevez is the President.
 A. Canada
 B. Venezuela
 C. Morocco
 D. Argentina
82. In which country is the Great Sphinx situated?
 A. Sudan
 B. Libya
 C. Egypt
 D. Algeria
83. In which city is the Hawamahal situated?
 A. Ahmadabad
 B. Jaipur
 C. Aurangabad
 D. Jamshedpur
84. Which monument is considered as the Universal symbol of Freedom and Democracy since 1924?
 A. Acropolis
 B. Colossium
 C. Statue of Liberty
 D. Angor Wat
85. Which famous mountaineer from New Zealand was conferred the Padma Vibhushan in 2008?
 A. Edmund Hillary
 B. Achille Compagnon
 C. Lino Lacedelli
 D. Reinhold Messner
86. Which team did Mahendra Singh Dhoni captain in the IPL?
 A. Delhi Dare Devils
 B. Mumbai Indians
 C. Royal Challengers Bengaluru
 D. Chennai Super Kings
87. Which Indian Tennis player had most wins in Davis Cup?
 A. Leander Paes
 B. Mahesh Bhoopathi
 C. Ramanathan Krishnan
 D. Vijay Amritha Raj
88. Which Railway line is located in the highest altitude?
 A. Lhasa –Xinings
 B. Qinghai-Tibet
 C. Ketra-Qazigund
 D. New Jaipaiguri-Ledo
89. The largest city in population is Tokyo in Japan but the largest city in area is.....
 A. Seoul in South Korea
 B. Berlin in Germany
 C. London in England
 D. St. Peter's Berg in Russia

90. The scientific study of robots is known as.....
- | | |
|--------------|----------------------|
| A. Robotics | B. Rheology. |
| C. Radiology | D. Robot Engineering |
91. The process of mapping ordinary messages into encoded messages is called.....
- | | | | |
|----------------|---------------|-----------------|----------------|
| A. Enciphering | B. Encryption | C. Cryptography | D. Description |
|----------------|---------------|-----------------|----------------|
92. Mainframes are.....
- | | |
|-----------------------|--|
| A. Micro Computers. | B. The largest and most powerful computers |
| C. Personal Computers | D. The small sized computers |
93. Which Indian leader established a Government in exile, during freedom struggle.
- | | |
|-------------------------|--------------------------|
| A. Subhash Chandra Bose | B. Rash Bihari Bose |
| C. Bhikaji Cama | D. Raja Mahendra Prathap |
94. Which Italian city was buried along with Herculaneum when Vesuvius erupted in AD.79?
- | | | | |
|-----------|-----------|----------|------------|
| A. Verona | B. Pompai | C. Padua | D. Messina |
|-----------|-----------|----------|------------|
95. The Chief Justice and other Judges of the Supreme Court of India are appointed by
- | | |
|-----------------------------------|--|
| A. Prime Minister of India | B. The Governor of the concerned State |
| C. The C.M of the concerned state | D. The President of India |
96. Who was the author of 'My Truth'?
- | | | | |
|------------------|-----------------|-----------------|-----------------|
| A. Indira Gandhi | B. Rajiv Gandhi | C. Sonia Gandhi | D. Rahul Gandhi |
|------------------|-----------------|-----------------|-----------------|
97. Who is the author of 'White House Years' ?
- | | | | |
|-------------------|--------------------|--------------------|------------------|
| A. John F.Kennedy | B. Henry Kissinger | C. Abraham Lincoln | D. Ronald Reagan |
|-------------------|--------------------|--------------------|------------------|
98. Which one is not an officially recognized volunteer organization ?
- | | | | |
|--------------|-----------------|------------|-------------|
| A. Red Cross | B. Red Crescent | C. Red Sun | D. Red Star |
|--------------|-----------------|------------|-------------|
99. Can you identify this lady, who is Myanmar's champion of democracy and nobel prize Laureate for peace?
- | | |
|-----------------------|---------------------------|
| A. Beegum Khalida Zia | B. Benazir Bhuto |
| C. Aung San Suu kyi | D. Sirimao Bandara Nayake |
100. Which country is known as the Land of thousand lakes?
- | | | | |
|------------|-------------|-----------|------------|
| A. Finland | B. Thailand | C. Canada | D. Grenada |
|------------|-------------|-----------|------------|

Space for rough work

MTS EXAMINATION 2014

QUESTION PAPER

10

Class : X

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.

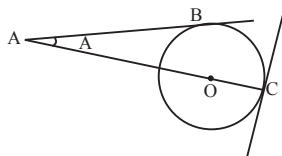
Fill in the blanks suitably using the correct options A, B, C or D

1. Thesaid them she would not supply on holidays.
A. milk woman B. milk man C. milk maid D. milk servant
2. Computers dull the skills we use inlife.
A. every day B. everyday C. every days D. everyday's
3. Tell her to wait here. The passive construction of the sentence will be:
A. There he told to wait here B. Let there told to be wait here.
C. Let her be told to wait D. Let her be told to wait here.
4. I am late,?
A. amn't I? B. aren't I? C. don't I? D. do I?
5. After hethe lecture, he sat down.
A. had delivered B. delivered C. has delivered D. deliver
6. Which sentence is appropriate and meaningful?
A. Yesterday Lee claimed he saw a basking shark
B. Lee claimed he saw yesterday a basking shark
C. Lee claimed he saw a basking shark yesterday
D. Lee claimed yesterday he saw a basking shark.

Read the following passage and answer the questions given below

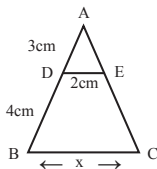
Harold Pinter, was a Nobel Prize-winning English playwright, screenwriter, director and actor. One of the most influential modern British dramatists, his writing career spanned more than 50 years. His best-known plays include *The Birthday Party* (1957), *The Homecoming* (1964), and *Betrayal* (1978), each of which he adapted for the screen. His screen-play adaptations of others works include *The Servant* (1963), *The Go-Between* (1970), *The French Lieutenant's Woman* (1981), *The Trial* (1993), and *Sleuth* (2007). He also directed or acted in radio, stage, television, and film productions of his own and others' works. In his last 25 years, Pinter increasingly focused his essays, interviews and public appearances directly on political issues. Pinter strongly opposed the 1991 Gulf War, the 1999 NATO bombing campaign in Yugoslavia during the Kosovo War, the United States' 2001 War in Afghanistan, and the 2003 Invasion of Iraq. Among his provocative political statements, Pinter called Prime Minister Tony Blair a "deluded idiot" and compared the administration of President George W. Bush to Nazi Germany. He stated that the United States "was charging towards world domination while the American public and Britain's 'mass-murdering' prime minister sat back and watched." He was very active in the anti-war movement in the United Kingdom, speaking at rallies held by the Stop the War Coalition and frequently criticising American aggression, as when he asked rhetorically, in his acceptance speech for the Wilfred Owen Award for Poetry on 18 March 2007: "What would Wilfred Owen make of the invasion of Iraq? A bandit act, an act of blatant state terrorism, demonstrating absolute contempt for the conception of international law."

7. Who did the bombing campaign in Yugoslavia during the Kosovo war in 1999?
 A. Usama Bin Laden B. Terrorists C. NATO D. Afghanistan
8. Who was called a 'deluded idiot' by Harold Pinter?
 A. Pinter B. George W. Bush C. Tony Blair D. Nazi
9. According to the passage what did Harold Pinter do frequently?
 A. went to watch films B. went to the club and played with friends
 C. criticized the American aggression. D. purchase the costly dresses
10. Which word in the passage is the antonym of 'like' ?
 A. provocative B. contempt C. deluded D. conception
11. The diagonal of a square field is 8m, then its area is
 A. $64m^2$ B. $16m^2$ C. $32m^2$ D. none of these
12. The value of $(\tan 1^\circ \tan 2^\circ \tan 3^\circ \dots \dots \tan 89^\circ)$ is
 A. 0 B. $\frac{1}{2}$ C. $\frac{\sqrt{3}}{2}$ D. 1
13. The largest number that would divide 398, 436 and 542 leaving remainders 7, 11 and 15 respectively is
 A. 23 B. 5 C. 17 D. 25
14. The following diagram shows a circle with centre O and radius 2 cm. Line AB is tangent to the circle at point B and line DC is tangent to the circle at C. The length of AC is



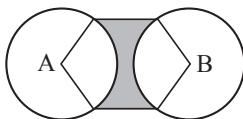
- A. $4 + \sqrt{2}cm$ B. $2 + 2\sqrt{2}cm$ C. 5cm D. $2\sqrt{2}cm$

15. In the following figure, $DE \parallel BC$ then x is equal to



- A. 3cm B. 4cm C. 7cm D. 4.7cm

16. Which is the area of the shaded region shown, if the radius of each circle is equal to the side of the regular hexagon, which in turn is equal to 6 cm, and A and B are the centres of the circles ?



- A. $(9\sqrt{3} - 24\pi)cm^2$ B. $(54\sqrt{3} - 24\pi)cm^2$
 C. $(54\sqrt{3} - 12\pi)cm^2$ D. $18\sqrt{3} - 12\pi$

17. The decimal expansion of the number $\frac{343}{2^2 \cdot 5^7 \cdot 7^2}$ will be
 A. Terminating B. Non - terminating repeating
 C. Non - terminating non - repeating D. None of these
18. A bag contains 3 Red pens, 5 Black pens and 4 Blue pens of same type. A pen is taken at random, what is the probability of getting a blue pen?
 A. $1/4$ B. $5/12$ C. $1/3$ D. none of these
19. If the discriminant of the equation $6x^2 - bx + 2 = 0$ is 1, then the value of b is
 A. 7 B. -7 C. ± 7 D. $\pm \sqrt{7}$
20. If the sum of the zeroes of the polynomial $(a+1)x^2 + (2a+3)x + (3a+4)$ is -1 then the product of its zeroes is
 A. 2 B. -2 C. 1 D. 0
21. An electric heater is rated 2 kw. Calculate the cost of using it for 2 hrs. daily for the month of September, if each unit costs ₹ 4.00
 A. 480 B. 400 C. 500 D. 460
22. The main constituent of petroleum gas is
 A. Methane B. Ethane C. Butane D. Propane

23. An electron beam is moving vertically upwards. If it passes through a magnetic field which is directed from South to North in a horizontal plane, then in which direction the beam will deflect?
 A. Towards East B. Towards North C. Towards South D. Towards West
24. At what distance should an object be placed from a convex lens of focal length 18 cm. to obtain an image at 24 cm. from it on the other side? What will be the magnification produced in this case?
 A. $\frac{1}{3}$ B. $-\frac{1}{3}$ C. $\frac{1}{6}$ D. $-\frac{1}{6}$
25. When an aqueous solution of quick lime is applied on the walls, it dries after some time to produce whiteness on the walls. This happens due to the following reaction.
 i. Reaction of slaked lime with carbon dioxide present in air
 ii. Reaction of slaked lime with oxygen present in air.
 iii. Reaction of quick lime with the nitrogen of air.
 The right answer is
- A. (i) only B. (iii) only C. Both (ii) and (iii) D. Both (i) and (ii)
26. For a compound to be a good conductor of electricity, it is necessary that
 A. It should have ions B. It should be in solid state
 C. It should be in molten state or aqueous solution form.
 D. Both (a) and (c) are correct.
27. Which one of the following properties is not generally exhibited by ionic compounds?
 A. Solubility in water B. Electrical conductivity in solid state
 C. High melting and boiling points D. Electrical conductivity in molten state
28. The three portions of small intestine in the correct order are:
 A. Ileum, duodenum, jejunum B. Colon, caecum, rectum
 C. Duodenum, jejunum, ileum D. Caecum, colon, rectum
29. Which of the following is not true about inspiration/inhalation in human beings?
 A. Ribs are lifted B. Chest cavity becomes larger
 C. Diaphragm becomes dome-shaped D. Air enters into lungs
30. Which of the following statements are true about the brain?
 i. The main thinking part of brain is hindbrain
 ii. Centres of hearing, smell, memory, sight, etc. located in forebrain
 iii. Involuntary actions like salivation, vomiting, blood pressure are controlled by the medulla in the hindbrain
 iv. Cerebellum does not control posture and balance of the body.
 A. (i) and (ii) B. (i), (ii) and (iii) C. (ii) and (iii) D. (iii) and (iv)
31. Which of the following statement(s) is/are correct?
 i. 'Agenda-21' is the declaration signed by world leaders in 1992 at the United Nations Conference on Environment and Development (UNCED)
 ii. The Conference took place at New York, America.
 iii. It aims at achieving global sustainable development.
 Codes:
 A. I only B. I & II only C. I & III only D. All the above
32. Which of the following is the most important cause for the Great Depression?
 A. Decline in agricultural production
 B. Agricultural overproduction leading to fall of prices in agricultural goods.
 C. Loss of employment leading to poverty
 D. Closure of banks and factories
33. Why were workers in England hostile to machines and new technology?
 A. They did not know how to use these.
 B. They feared that they would lose their jobs and livelihood

- C. The workers were too poor to buy new machines
D. They were sacred of machines
34. Which one of the following is not correctly matched?
- | National Park | State |
|------------------------------|----------------|
| A. Corbett National Park | Gujarat |
| B. Bandhargarh National Park | Madhya Pradesh |
| C. Sariska Wildlife Sanitary | Rajasthan |
| D. Manas Tiger Reserve | Assam |
35. Why was James Augustus Hickey persecuted by Governor General Warren Hastings?
A. For poor editing of Bengal Gazette
B. For publishing a lot of gossip about company's senior official
C. For writing propaganda material against the Indian
D. For publishing sub standard material
36. Why does the writing of Vaikkom Muhammed basheer Significant?
A. His novels give details of everyday life of Muslim holds.
B. He writes about communal conflict between Hindus and Muslims
C. He writes about the need for reform of society
D. He preached the need for Satyagraha
37. Assertion (A): In India, the Reserve Bank of India issues currency notes on behalf of the central Government.
Reason(R): As per Indian law, no other individual or organization is allowed to issue currency.
Choose the correct option:
A. Both 'A' and 'R' are true and 'R' is the correct explanation of 'A'
B. Both 'A' and 'R' are true and 'R' is not the correct explanation of 'A'
C. 'A' is true and 'R' is false
D. 'R' is true and 'A' is false
38. Examine the following pairs that give the level of government in India and the powers of the government at that level to make each. Which of the following pairs is not correctly matched?
A. State Government - State List
B. Central Government - Union List
C. Central and State Government - Concurrent list
D. Local Government - Residuary Powers
39. Which two Constitutional Amendment of 1992 deal with local self-government?
A. 72nd and 73rd Amendments
B. 73rd and 74th Amendment
C. 71st and 74th Amendment
D. 71st and 72nd Amendments
40. What was the aim of Chipko Movement?
A. Human Rights
B. Postical Rights
C. Agriculture Expansion
D. Forest Conservation
41. Who headed a three-member commission of inquiry that suggested ways for improving safety and security for women, besides looking into the recent gang rape incident of Delhi?
A. Gopal Subrahmanya
B. Lalitha Seth
C. J. S Verma
D. Ranjana Kumar
42. An Indian Foreign Secretary is the top diplomat for Indian Foreign Relations. The first foreign Secretary was K. P. S Menon from Kerala. Who is succeed Ranjan Mathai as India's present foreign secretary?
A. Sujatha Sing
B. Nirupama Rao
C. Shiv Shankar Menon
D. Shyam Saran
43. Which country joined the European Union on July 1, making the total number of member states to 28?
A. Denmark
B. Croatia
C. Turkey
D. Cyprus

44. Who is the Governor of Kerala?
 A. H.R Bharadwaj B. M. O. H Farookh C. R. S Gavai D. Nikhil Kumar
45. Who is appointed as India's new permanent representative to the United Nations after Hardeep Singh Puri?
 A. A. K. Mukherji B. S. C. Sinha C. Manju Singh D. Dr. Shantha Sinha
46. It is an oil cartel whose mission is to coordinate the policies of the oil-producing countries. It is an intergovernmental organization that was created at the Baghdad Conference on September 10–14, 1960, it headquartered in Vienna, Austria. Name?
 A. OPEC B. NOFOTA C. FOSFA D. NAM
47. GST appears frequently in news papers. GST Stands for.....
 A. General Service Treaty B. Green Services Tax
 C. Governing Services Tax D. Goods and Services Tax
48. Who invented the Lightning Conductor?
 A. E. Mendal B. Benjamin Franklin C. Edward Teller D. Roger Bacon
49. The Attorney General for India is the Indian government's chief legal advisor, and its primary lawyer in the Supreme Court of India. He is appointed by the President of India under Article 76(1) of the Constitution and holds office during the pleasure of the President. He must be a person qualified to be appointed as a Judge of the Supreme Court. Who is the present Attorney General of India?
 A. Milon K. Banerjee B. Soli Sorabji C. Gopal Subrahmanyam D. G. E Vahanvati
50. Who is the new president of Asian Development Bank (ADB)?
 A. Haruhiko Kuroda B. Tokehiko Nakao C. Antony Lake D. Alan Issac
51. A. O. Hume, the founder of Indian National Congress was a
 A. Press Person B. Politician C. Doctor D. Bureaucrat
52. General Michael O'Dyr was murdered in London on March 13, 1940 by Indian Revolutionary. Who was he?
 A. Rash Behari Bose B. Lala Hardayal C. Udham Sing D. Khudiram Bose
53. The Arab country Syria remained in news recently. Consider the following statements in this regard:
 I. Syria is a country in Western Asia, bordering Lebanon and the Mediterranean Sea to the West, Turkey to the north, Iraq to the east, Jordan to the south and Israel to the southwest.
 II. Its capital is Damascus.
 Choose the correct answer:
 A. Only I is correct B. Only II is correct C. Both are correct D. Both are incorrect
54. The Shalimar Garden of Srinagar in Jammu and Kashmir, considered the high point of Mughal horticulture, was built by
 A. Shahjahan B. Jahangir C. Akbar D. Babar
55. Machu Picchu' is a 15th century Inca Site, located in.....
 A. Brazil B. France C. Australia D. Peru
56. P. V Sandhu was recently in news, associated with
 A. Tennis B. Badminton C. Chess D. Football
57. 'Sunny days' is written by a sports person
 A. Sunil Gavaskar B. Kapil Dev C. Dhyan Chand D. E.S. Prasanna
58. Who is known as 'father of computer'?
 A. Symur Cray B. Larry Page C. Charles Babbage D. Alan Turing
59. is an American software freedom activist and computer programmer. He campaigns for software to be distributed as a user receiving it with the freedoms to use, study, distribute and modify that software. He is best known for launching the free operating system GNU/Linux
 A. Mark Zuckerberg B. Charles Babbage C. Richard Stallman D. Bill Gates

60. Which is the largest sea in the world?
 A. South China Sea B. Arabian Sea C. Mediterranean Sea D. Aden Sea
61. Which is the longest train service in India?
 A. Shatabdi Express B. Himasagar Express C. Vivek Express D. Mother Express
62. After Jallianwala Bagh incident Gandhi started Non Cooperation movement. Protestors would refuse to buy British goods, adopt the use of local handicrafts, picket liquor shops, etc. The Non- Co-operation Movement was suspended by Mahatma Gandhi in 1922 because
- A. the Mappila rebellion in Malabar B. the movement showed signs of decay
 C. a mob burnt alive some policemen at Chauri Chaura
 D. he was frightened by government repression
63. The painting in the Ajanta caves of Maharashtra depicts different incidents in the life of
 A. Shiva B. Mahaveera C. Budha D. Ashoka
64. A money bill can be introduced only in
- A. Either House of the Parliament B. Lok sabha
 C. Rajya Sabha D. Planning Commission
65. Who wrote the book 'Coolie' ?
 A. Mulkraj Anand B. R. K. Narayan C. Amritha Pritham D. Arthur Hailey
66. 'Discovery of India' is written by.....
- A. Indira Gandhi B. Mahatma Gandhi C. Jawaharlal Nehru D. Abul Kalam Azad
67. The Association of Southeast Asian Nations (ASEAN) is a geo-political and economic organisation of ten countries located in Southeast Asia. Where is the headquarters of ASEAN?
 A. Jakarta B. Singapore C. Manila D. Kathmandu
68. Who is the chief Election Commissioner of India?
 A. Syed Z. A Zaidi B. S. Y Quraishi C. H. S. Brahma D. V. S. Sampath
69. The Indian Census is the most credible source of information on Demography. It provides valuable information for planning and formulation policies for Central and the State Governments. Who is the Registrar General and Census Commissioner of India?
 A. C. Chandra Mouli B. K. Radhakrishnan
 C. Pramod T. N D. Nagendra Singh
70. India has more flood deaths than any country except Bangladesh. A river in India is known as the "Sorrow of Bihar" as the annual floods affect about 21,000 km² of fertile agricultural lands thereby disturbing the rural economy. What is the name of that river?
 A. Damodur B. Kosi C. Mahanadi D. Brahmaputra
71. Road : Footpath
 A. Trains : Rails B. Ocean : Bay C. Sea : Shore D. River : Delta
72. Library : Catalogue
 A. University : Syllabus B. School : Schedule
 C. College : Account D. Restaurant : Menu
73. 1,4,9,16,25,.....
 A. 30 B. 35 C. 36 D. 40
74. Insert the missing number
- | | |
|-----|-----|
| 594 | 198 |
| ? | 66 |
- A. 22 B. 33
 C. 11 D. 12
75. 1, 27,, 343, 729
 A. 36 B. 125 C. 99 D. 111
76. If $3 \times 6 = 18$, $4 \times 7 = 22$, $9 \times 1 = 20$, $5 \times 2 = ?$
 A. 7 B. 10 C. 14 D. 3

77. The two numbers are in the ratio 2:3 and their product is 96. The sum of the numbers is
 A. 5 B. 20 C. 101 D. 102
78. Two towns P and Q are 500 km apart. A train starts at 8 am from P towards Q at a speed of 70 km/hr. At 10 am another train starts from Q towards P at a speed of 110 km /hr. When will the two trains meet?
 A. 1 pm B. 12 noon C. 12.30 pm D. 1.30 pm
79. Sidan goes for a morning walk through a foot path with his friends. He walks 50m towards the direction where sun rises, then he turns just opposite and walks 50m, then he walks 30m towards the north and turns left, then walks 40m. How far is he from the starting point?
 A. 120m B. 75m C. 70m D. 50m
80. Rajeev, Roni, Riyas, Akhil and Vijay are sitting in a bench. Rajeev is to the right of Roni and Vijay is to the left of Riyas and right of Rajeev. Roni is to the right of Akhil. Who among them in the middle?
 A. Akhil B. Rajeev C. Roni D. Vijay
81. One gets an ice cream every time one visits the parlour
 a. I got an ice cream b. I did not get an ice cream
 c. I did not visit the parlour d. I visited the parlour
 A. c B. bd C. da D. ac
82. If Usha participated in the solo competition she would get the championship
 a. Usha participated in the solo competition
 b. Usha did not participate in the solo competition
 c. She won the championship .
 d. She didn't win the championship
 A. ac B. db C. ad D. cd
83. Find the odd man out
 A. 169 B. 289 C. 441 D. 624
84. A tailor had a number of shirt pieces to cut from a roll of fabric. He cut each roll of equal length into 16 pieces. He cut at the rate of 45 cuts a minute. How many rolls would be cut in 24 minutes?
 A. 32 rolls B. 54 rolls C. 108 rolls D. 72 rolls
85. Two friends start riding from a certain place in the opposite direction – one goes towards south at the speed of 18 km /hr, and the other goes towards north at 20 km / hr. After 1½ hours, what will be the distance between them?
 A. 38 km B. 27 km C. 43 km D. 57 km
86. If a person travels at a speed of 30 km/h from his house to office, he will be late by 10 mts. If he travels at a speed of 40 km/h he can reach 5 minutes before the office time. What is the distance from office to house ?
 A. 40km B. 30km C. 45km D. 35km
87. Turn odd man out

A.

100	
6	4

B.

144	
9	3

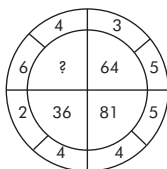
C.

64	
5	3

D.

80	
4	3

88. A is thrice as good a workman as B. Together they can do a job in 15 days. B alone will finish it in
 A. 20 days B. 30 days C. 45 days D. 60 days
89. Insert the missing number

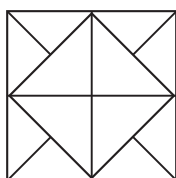


- A. 25 B. 49
 C. 100 D. 16

90. If it was Sunday on 11th July 2001, what was the day on 24th December of the same year?

- A. Thursday B. Saturday C. Friday D. Wednesday

91. How many triangles are there in the given figure?

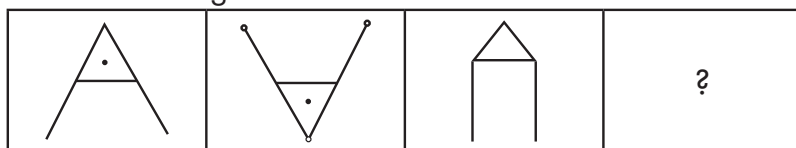


- A. 10 B. 18
C. 20 D. 22

92. Fill the blanks with appropriate letters. -bc-b-a-c-ba

- A. bacba B. abcba C. acbac D. acabc

93. Find the missing in the series



- A. B. C. D.

94. If + means \times ; - means \div ; \div means + and \times means -, then $20 \div 40 - 4 \times 5 + 6 = ?$

- A. 0 B. 15 C. 16 D. 60

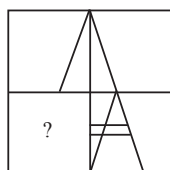
95. In the following series, how many 7 is/are there which is/are preceded by 6 and followed by 7?
7576875675686757577

- A. 2 B. 1 C. 3 D. none of the above

96. If TEMPLE is Coded as VHQURL, how would you code CHURCH?

- A. EKYWIO B. EKUWIO C. EKYWIN D. EKYWJO

97. Which of the figures given in four alternatives completes the original figure?

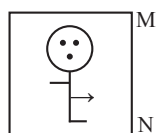


- A. B. C. D.

98. Looking at a portrait, a man said, "that man's father is my father's son. Brothers and sisters I have none." At whose portrait was the man looking?

- A. His own B. His son's C. His father's D. His uncle's

99. Find the mirror image of the figure, if the mirror is kept at MN



- A. B. C. D.

100. If the 13th and 16th letters were dropped, then which would be the 14th and 18th letter in the English Alphabet?

- A. O, T B. N, R C. N, S D. O, S

Space for rough works

MTS EXAMINATION 2014

MODEL QUESTION PAPER

10

Class : X

Score : 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 point pen.
4. Each question carries one mark.
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. Upendra always wear costly
A. cloths B. clothes C. clothing D. cloth
2. The Indirect speech of "You can meet me at four O'clock tomorrow" is
A. I said that he could meet me at 4 O'clock tomorrow.
B. I said that he can meet me at 4 O'clock the next day.
C. I said that he could have met me at 4 O'clock tomorrow.
D. I said that he could meet me at 4 O'clock the next day.
3. 'Give the order to open fire'... The passive construction of the sentence will be:
A. Fire be ordered to open. B. Let the order to open fire be given.
C. Let the fire be opened. D. Let the order be given to fire.
4. Let's have a party,?
A. Have we B. Haven't we C. Shall we D. Shalln't we.
5. He his lunch yet.
A. hasn't had B. hadn't had C. didn't have D. haven't had
6. You had better
A. met the director B. to meet the director C. meet with the director D. meet the director

Read the following passage and answer the questions 7 to 10

Rachel Aliene Corrie from Olympia, Washington, was an American peace activist and member of the pro-Palestinian group called International Solidarity Movement (ISM). She was crushed to death by an Israel Defense Forces (IDF) armored bulldozer in Rafah, in the southern part of the Gaza Strip under contested circumstances during the height of the second Palestinian intifada.

She had come to Gaza as part of her senior-year college assignment to connect her hometown with Rafah in a sister cities project. While there, she had engaged with other ISM activists in efforts to non-violently prevent the Israeli army's demolition of the homes of Palestinian people.

Less than two months after her arrival, on March 16, 2003, Corrie was killed after a three-hour confrontation between two bulldozers and eight ISM activists. Wearing a bright orange fluorescent jacket and, until shortly before her death, using a megaphone, she was killed while standing in the path of a bulldozer that she believed was about to demolish the house of local pharmacist Samir Nasralla's family whom she had befriended. She was run over twice by the bulldozer resulting in a fractured skull, shattered ribs and punctured lungs.

The exact nature of her death and the culpability of the bulldozer operator are disputed, with eyewitnesses saying that the Israeli soldier operating the bulldozer deliberately ran over Corrie,

7. Rachel Aliene Corrie was a member of
A. American Peace Activist B. Olympic Association
C. Israel Defense Force D. International Solidarity Movement

8. How did Corrie die?
 A. shot down by Israeli army
 B. run over by bull dozer of Israel
 C. hanged by the military
 D. stabbed by a Palestinian
9. Where did she die?
 A. Olympia, Washington
 B. America
 C. Rafah, Gaza Strip
 D. Israel
10. A word in the passage which means 'act of guilt'
 A. culpability
 B. demolition
 C. dispute
 D. confrontation
11. The average of 5 consecutive odd numbers is 27. Which is the biggest of those numbers?
 A. 29
 B. 31
 C. 27
 D. 25
12. If $x-y=1$ and $xy=6$ then $x^2+y^2=?$
 A. 20
 B. 22
 C. 24
 D. 26
13. If the discriminant of a quadratic equation is less than zero, then the nature of its roots is
 A. two real distinct roots
 B. two real equal roots
 C. no real roots
 D. none of these
14. Evaluate $\frac{\tan 65^\circ}{\cot 25^\circ}$
 A. $\tan 65^\circ$
 B. $\cos 25^\circ$
 C. $\tan 45^\circ$
 D. $\cot 45^\circ$
15. The LCM of two numbers is 1920 and their HCF is 16. If one of the numbers is 128, the second number is
 A. 206
 B. 224
 C. 240
 D. 324
16. If a, b, c are in AP, then the arithmetic mean of a and c is
 A. $\frac{c-a}{2}$
 B. c
 C. b
 D. a
17. $\frac{0.25 \times 0.25 - 0.24 \times 0.24}{0.49} = ?$
 A. 0.1
 B. 0.01
 C. 0.001
 D. 1
18. If PA and PB from a point P to a circle with centre O are inclined to each other at angle of 80° , then $\angle POA = ?$
 A. 50°
 B. 60°
 C. 70°
 D. 80°
19. A cone of height 24cm and radius of base 6cm is made up of modelling clay. Appu re-shapes it in the form of a sphere. Then radius of the sphere will be
 A. 3cm
 B. 2cm
 C. 4cm
 D. 6cm
20. If the point A(6,1), B(8,2), C(9,4) and D(k,3) are the vertices of a parallelogram taken in order, then the value of k is
 A. 6
 B. 7
 C. 8
 D. $\frac{15}{2}$
21. The natural gas consists mainly of
 A. methane
 B. ethane
 C. propane
 D. butane
22. An electric bulb is rated as 50w, 220 v. Calculate the energy consumed by the bulb in 20 minutes.
 A. $\frac{1}{6}kwh$
 B. $\frac{1}{30}kwh$
 C. $\frac{1}{60}kwh$
 D. $\frac{1}{3}kwh$
23. The diagram shows a beam of electrons about to enter a magnetic field.
 The direction of the field is into the page.
 electron xxxxxx
 beam -----> xxxxxx magnetic field
 xxxxxx into page
- What will be the direction of the deflection, if any, as the beam passes through the field?
 A. Electron beam deflects towards up of the page.
 B. No deflection
 C. Electron beam deflects towards the bottom of the page.
 D. Electron beam deflects away from the page.

24. The image of an object placed at 60 cm in front of a lens is obtained on a screen at a distance of 120 cm from it. Find the focal length of the lens. What would be the height of the image if the object is 5 cm high?
 A. 10 cm B. 20 cm C. 13 cm D. 8 cm
25. Consider the following statements and choose the correct option. When a burning splinter is brought near the mouth of the gas jar filled with hydrogen gas,
 i. It burns slowly without any sound
 ii. It burns with pop sound and water is formed
 iii. It does not burn
 iv. It supports combustion only.
 A. Only (iv) is correct. B. Only (ii) is correct
 C. Both (ii) and (iii) are correct D. Both (i) and (iv) are correct
26. Aqueous solution of common salt gives green colour that shows that its pH is approximately 7. It means that common salt is made up of.
 A. Weak acid and weak base B. Strong acid and weak base
 C. Weak acid and strong base D. Strong acid and strong base
27. Which of the following metals exist in their native state in nature?
 i. Cu ii. Au iii. Zn iv. Ag
 A. (i) and (ii) B. (ii) and (iii) C. (ii) and (iv) D. (iii) and (iv)
28. The part of the digestive system in human beings that readily do not participate in digestion of food is
 A. Ileum B. Large intestine C. Oesophagus D. Jejunum
29. The process of formation of ATP in respiration is called?
 A. Oxidative phosphorylation B. Substrate phosphorylation
 C. Phosphorylation D. Photosphorylation
30. I am suffering from severe cold, so I cannot:
 A. Differentiate the taste of an apple from that of an ice cream
 B. Differentiate the smell of a perfume from that of an agarbatti
 C. Differentiate red light from green light
 D. Differentiate a hot object from a cold object
31. Consider the following statements and select the correct option
 I: The first International Earth Summit took place at Rio de Janeiro in Brazil, in June 1992.
 II: The assembled leaders [more than 100 heads of states] signed the Declaration of Global Climate Change and Biological Diversity.
 III: The Rio convention adopted 'Agenda-21' for achieving sustainable development in the 21st century
 A. I and II only B. I and III only
 C. Only III D. All are correct.
32. Why did the export of fine Indian textiles to England decline in 19th century?
 A. Production of cotton declined
 B. Demand of Indian textiles in England declined.
 C. British government imposed heavy tariff on import of cotton textiles
 D. Indian merchant refused to sell cotton to the British merchant.
33. Indian handmade goods could not compete with the British machine made goods because
 A. These handmade goods were not of good quality.
 B. Machine made goods were cheaper than handmade goods
 C. Handmade were not made easily available
 D. Handmade goods were not appealing to them.
34. Which one of the following is not correctly matched [national parks – states]
 A. Corbett national park – Uttaranchal B. Bandhavgarh National Park – Madhya Pradesh
 C. Sarika wild life sanctuary – Rajasthan D. Manas Tiger Reserve – Gujarat.

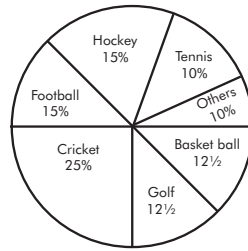
35. With what purpose was the Vernacular Press Act passed by Lord Lyton in 1878?
- To popularize Vernacular Press
 - To supervise Vernacular Press
 - To clamp down and censor the native press
 - To encourage author writing in Indian language
36. Novels of which of the following authors give us a glimpse of women of 19th century rural society in Britain?
- Charlotte Bronte.
 - Jane Austen
 - Emily Bronte
 - Susan Coolidge
37. Assertion (A): When we produce a good by exploiting natural resources, it is an activity of primary sector.
Reason (R): It forms the base for all other products that we subsequently make.
Choose the correct option
- Both A and R are true and R is the correct explanation of A
 - Both A and R are true and R is not the correct explanation of A
 - A is true and R is false
 - R is true and A is false
38. Consider the following two statements on power sharing and select the answer using codes given below.
A-Power sharing is good for democracy
B-It helps to reduce the possibility of conflict between social groups .
Which of the statements are true and false?
- A is true but B is false
 - Both A and B are true
 - Both A and B are false
 - A is false but B is true
39. In case of a clash between the laws made by the centre and a state on subject in the concurrent list:
- The state law prevails
 - The central law prevails
 - Both the laws prevail within their respective jurisdictions.
 - The Supreme Court has to intervene to decide.
40. 'Chipko Movement' is a programme started towards conservation of.....
- soil
 - water
 - minerals
 - forests
41. Prime Minister Manmohan Singh has not been elected directly by the people yet as a Lok Sabha Member. But he has been re-elected to the Rajya Sabha from the state of
- Punjab
 - Arunachal Pradesh
 - Assam
 - Sikkim
42. Tamil is the language to get classical status at first. Recently Malayalam was also honored. How many languages in India have been conferred Classical status so far?
- Five
 - Seven
 - Ten
 - Twelve
43. has become the first European country to introduce compulsory military services for women?
- Finland
 - Norway
 - Britain
 - Denmark
44. was the first Indian woman in space. She first flew on Space Shuttle Columbia in 1997. In 2003, she was one of the seven crew members killed in the Space Shuttle Columbia disaster.
- Sunitha Williams
 - Bachendri Pal
 - Kalpana Chawla
 - Captain Lakshmi
45. Which person from the following is a noted environmentalist, chipko movement leader and follower of Gandhian Philosophy.
- T. N. Sheshan
 - Barak Obama
 - A. O. Hume
 - Sundarlal Bahuguna
46. GAIL (India) Limited is the largest state-owned natural gas processing and distribution company headquartered in New Delhi, India. GAIL stands for.....
- Gas Authority of India Limited
 - Government Authority of India Limited
 - General Agreement on India's Liquidity
 - General Agreement on India's Logistics
47. IAEA is an international organization that seeks to promote the peaceful use of nuclear energy, and to inhibit its use for any military purpose, including nuclear weapons. What is the

- full form of IAEA?
- A. Indian Atomic Energy Agency B. Indian Agricultural Education Agency
C. International Atomic Energy Agency D. International Agricultural Educational Agency
48. Who invented 'Refrigerator'?
- A. James Harrison B. Seymour Cray C. J. L. Baird D. Christian Hygens
49. The seventh and last Deputy Prime Minister of India was L. K. Advani, in Atal Bihari Vajpayee's government. The current government does not have a Deputy Prime Minister. Who was the first Deputy Prime Minister of India?
- A. Jawaharlal Nehru B. Sardar Vallabhai Patel
C. Baldev Singh D. Vijaya Lakshmi Pandit
50. Who is the current Prime Minister of Russia?
- A. Vladimir Putin B. Dmitry Medvedev C. Baris Yeltsin D. S. Kiriyenko
51. The All India Forward Bloc is a leftwing nationalist political party in India. It emerged as a faction within the Indian National Congress in 1939, led by.....
- A. B. R. Ambedkar B. Dr. Rajendra Prasad
C. Subhash Chandra Bose D. Mahatma Gandhi
52. Who is called 'father of Indian Unrest'?
- A. B. G. Tilak B. Mahatma Gandhi C. Abdul Gaffar Khan D. Jawaharlal Nehru
53. The Arab Muslim countries remain in news these days. Consider the following statements in this regard:
- i. While most of the world is ambivalent about the overthrow of the first democratically elected president in Egypt by the Army, Saudi Arabia is enthusiastically endorsing the military coup.
- ii. Riyadh is the Capital city of Saudi Arabia
- Choose the correct answer.
- A. Only (i) is correct B. Only (ii) is correct
C. Both are correct D. Both are incorrect
54. 'Fatehpur Sikri' is founded by.....
- A. Shahjahan B. Akbar C. Jahangir D. Babar
55. The world famous church 'Saint Basil's Cathedral' was built in 1555-1561. It is located in
- A. Moscow B. New York C. Paris D. London
56. Who is the winner of Men's Singles in Wimbledon Tennis championship 2013?
- A. Roger Federer B. Pet Sampous C. Andy Murray D. Novak Djokovid
57. Name the sports star who wrote the book 'Straight from the Heart'
- A. Sunil Gavaskar B. Kapil Dev C. Dhyan Chand D. E. S Presenna
- 58.....is an American software freedom activist and computer programmer. He campaigns for software to be distributed as a user receiving it with the freedoms to use, study, distribute and modify that software. He is best known for launching the free operating system GNU/Linux.
- A. Mark Zuckerberg B. Charles Babbage C. Richard Stallman D. Bill Gates
59. The linking of computers with a communication system is called
- A. Networking B. Pairing C. Interfacing D. Assembling
60. Peninsula is a piece of land that is bordered by water on three sides, but connected to mainland. The largest peninsula in the world is
- A. Indian Peninsula B. Arabian Peninsula C. African Peninsula D. Australian Peninsula
61. Which is the largest sea-bird in the world?
- A. Albatross B. Penguin C. Ostrich D. Swift
62. The Jallianwala Bagh massacre: On the orders of Brigadier-General Reginald E.H. Dyer, the army fired on a group of non-violent protesters for ten minutes. The dead numbered between 370 and 1000. The enquiry committee appointed by the government on Jallianwala Bagh massacre was headed by
- A. Lord Munro B. Lord Lytton C. Lord Hunter D. Lord Reading

63. When was the Gandhi- Irwin Pact signed?
 A. 1930
 B. 1931
 C. 1932
 D. 1933
64. Most important influence on our constitution was the.....
 A. Cabinet Mission Plan
 B. Govt. of India Act 1935
 C. American Constitution
 D. Canadian Constitution
65. 'Gita Rahasya' is written by
 A. Bal Gangadhar Tilak
 B. Jawaharlal Nehru
 C. Mahatma Gandhi
 D. Rabindranath Tagore
66. 'Freedom in Exile' is written by
 A. Subhash Chandra Bose
 B. Salman Rushdie
 C. Taslima Nasrin
 D. Dalai Lama
67. North Atlantic Treaty Organization (NATO) an intergovernmental military alliance based on the North Atlantic Treaty constitutes a system of collective defence whereby its member states agree to mutual defense in response to an attack by any external party. The head quarters of NATO is.....
 A. Singapore
 B. Brussels
 C. Vienna
 D. New York
68. Who is the chairperson of National Human Rights commission?
 A. Althamas Kabir
 B. K. G Balakrishnan
 C. J.S Verma
 D. Sasikanth Sharma
69. Who is the chief secretary of Kerala?
 A. K. Jose Cyriak
 B. Raju Narayana Swami
 C. K. Jayakumar
 D. E. K Bharath Bhushan
70. India has more flood deaths than any country except Bangladesh. A river in India is known as the "Sorrow of Bihar" as the annual floods affect about 21,000 km² of fertile agricultural lands thereby disturbing the rural economy. What is the name of that river?
 A. Damodar
 B. Kosi
 C. Mahanadi
 D. Brahmaputra
- Observe the relation between the first two words/ numbers/ letters and choose the correct word for the second pair
71. Iris : Eye :: Cochlea :
 A. Brain
 B. Throat
 C. Ear
 D. Nose
72. XgmF : Emgy :: KxyQ :
 A. PyxL
 B. LyxP
 C. RyxJ
 D. JyxR
73. 1 : 0 :: : 8
 A. 16
 B. 2
 C. 7
 D. 3
74. Complete the series 240,, 120, 40, 10, 2
 A. 480
 B. 120
 C. 180
 D. 240
75. 2, 2, 4, 6, 8,, 16, 20
 A. 14
 B. 18
 C. 12
 D. 36
76. XZC, YYG, ZXK,, BVS
 A. AWO
 B. YAD
 C. AAQ
 D. CWS
77. Choose the pair that shows the same relationship as given.
 Santoor : Gazal
 A. Laptop : Keyboard
 B. Film : Show
 C. Fan : Wind
 D. None of these
78. 2:22, 4:44, 6:?, 8:88
 A. 64
 B. 60
 C. 66
 D. 68
79. What is the average of all odd numbers in between 0 and 100 ?
 A. 25
 B. 50
 C. 23
 D. 51

80. The 15% of x is equal to 20% of Y . then $x : Y = \dots\dots\dots$
 A. 3 : 4
 B. 15 : 20
 C. 5 : 7
 D. None of these
81. Neethu starts walking towards west and goes 10 km. Then she turns left and goes 8 km. She again turns left and goes 18 km. In which direction is she now from his starting point ?
 A. North- west
 B. north – east
 C. south – west
 D. south – east
82. Syam leaves his house. He first walks 5 km to the south. Then he turns to west and walks 4 kms. Finally he turns to his right and walks 2 kms. How far is he now from his house ?
 A. 1 km
 B. 5 km
 C. 9 km
 D. 10 km
83. The average age of 20 students in a class is 8 years. If the age of the teacher be included, then the average increased by one year. What is the age of the teacher ?
 A. 29
 B. 40
 C. 41
 D. 42
84. If 75% of a number is added to 75, the result is the number itself, then the number is
 A. 250
 B. 300
 C. 400
 D. 750
85. A school has enough food for 400 children for 12 days. How long will the food last if 80 more children join them ?
 A. 6 days
 B. 7 days
 C. 8 days
 D. 10 days
86. When a shopkeeper sold $\frac{2}{3}$ of an item, he got the cost price of the whole lot. What is the percentage of his profit ?
 A. 25
 B. 33.33
 C. 50
 D. 66.66
87. One can reach Cochin from Trivandrum in two different routes and he can reach Calicut from Cochin in three different routes. By how many ways he can reach Calicut from Trivandrum ?
 A. 5
 B. 6
 C. 8
 D. 9
88. An item is sold for 60 rupees. What is the percentage of profit if the cost is Rs. 50 ?
 A. 10
 B. 16
 C. 20
 D. 24
89. The sum of the ages of father and son is 30. What will be their total age after 6 years ?
 A. 36
 B. 30
 C. 48
 D. 42
90. Which of the following is the equation of x-axis?
 A. $x=0$
 B. $y=0$
 C. $x+y=0$
 D. $x-y=0$
91. Neena, Meena and Zeena had to share 14,000 rupees between them in the ratio 2:11:4. What is the share of Neena ?
 A. 2000
 B. 4000
 C. 6000
 D. 7000
92. Forty percent of total marks is required to pass an examination. A candidate who gets 100 marks fails by 20 marks. What is the total mark of the examination ?
 A. 250
 B. 360
 C. 280
 D. 300
93. If you get one saree absolutely free along with a purchase of two sarees, what is the percentage of discount ?
 A. 50
 B. 25
 C. $33\frac{1}{3}$
 D. $66\frac{1}{3}$
94. A vendor sells two television sets at the same price. He gets 20% profit on one and 20% loss on the other. Then
 A. There is no profit or loss
 B. 4% profit
 C. 4% loss
 D. none of these
95. There are 5 different buildings a to e in a row. a is to the right of b and e is to the left of c and right of a. b is to the right of d. Which of the houses is in the middle?
 A. e
 B. a
 C. b
 D. d
96. Ajay, Kiran, Ajmal, Ali and Shyam are standing in a line. Ajay said "Ajmal and Ali are in front of me. Kiran is in front of Ajmal." Then what is the position of Ajay in the line?
 A. 3rd
 B. 4th
 C. 1st
 D. 2nd
97. The exam is either talent search or scholarship
 a. The exam is talent search
 b. The exam is not talent search
 c. The exam is scholarship
 d. The exam is not scholarship
 A. ab
 B. cd
 C. ba
 D. bc

The following pie chart indicates the expenditure of a country on various sports during a particular year. Study the pie chart and answer it question number 28 to 30



98. The ratio of the total expenditure on football to that of hockey is
A. 1 : 15 B. 1 : 1 C. 15 : 1 D. 3 : 20
99. If the total expenditure on sports during the year was Rs. 1,20,000,00 how much was spent on basket ball?
A. Rs. 9,50,000 B. Rs. 10,00,000 C. Rs. 12,00,000 D. Rs. 15,00,000
100. Country's expenditure is the same on:
A. Hockey and Tennis B. Golf and Basket ball
C. Cricket and Football D. Hockey and Golf

Space for rough works