SAAHASAM TRUST

(A Trust For Rural Educational Development)

Regd No : 244/2016,Chandhuluru, L.Kota, Vizianagaram, A.P – 535161

SPARKS 2018

(Saahasam Promoting Activities For Raising Knowledgeable Students)

Time: 3 Hours   **Class: IX (EM)**   **Marks:100M**
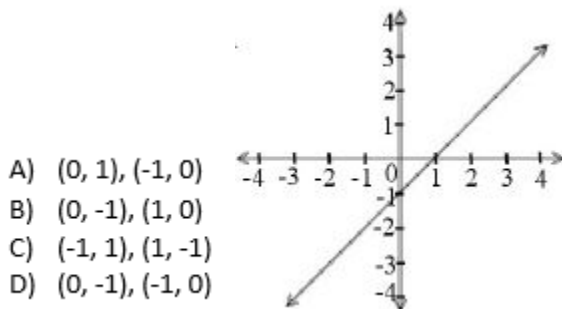
INSTRUCTIONS FOR THE CANDIDATE

- *Question paper have two sections Section-I & Section-II*
- *Section- I have multiple choice Questions and Section-II have MCQ's with reasoning based one line answer questions.*
- *Each question carries one mark.*
- *No negative mark for wrong answer.*
- *Ensure that you received correct question paper or not.*
- *Candidates will provided with OMR sheet for answers.*

  i)   *For section- I questions bubble the answers for corresponding questions.*
  ii)   *For Section- II questions bubble the answers for corresponding questions and write the reasons for the selected answer on the white space provided on the back side. If required an additional sheet will be provided)*
  iii) *__For Qno. 71 to 80 please write your one word/sentence answers on the white space provided on the back side of OMR.__*

- *Follow the instructions specified on OMR sheet.*

SECTION - I

1. The zeroes of the polynomial $P(X)=X^2 – 5x + 6$ is
A) 0, 2   B) 2, 0   C) 2, 3   D) 2, -2

2. If P(X) is divided by the linear polynomial $aX + b$, then the remainder

A) PA)   B) PB)   C) $P(\frac{-b}{a})$ D) $P(\frac{b}{a})$

3. If the diagonal of a square is 8 units, then it's side is _____ units

A) $3\sqrt{2}$ B) 5   C) $4\sqrt{2}$ D) 4

4. The cost of 6 Pens and 5 Pencils is Rs. 80. Write this information in linear equation form

A) 6p+5q=80   B) 5p+6q=80 C) 5p-6q=80   D) 6p-5q=80

5. Which pair of points lie on the graph

A) (0, 1), (-1, 0)
B) (0, -1), (1, 0)
C) (-1, 1), (1, -1)
D) (0, -1), (-1, 0)

6. "Every even number greater than 4 can be written as sum of two primes" is a

 A) Axiom   B) Conjecture   C) Postulate   D) Theorem

7. The number of dimensions of a rectangle is

      A) 3   B) 2   C) 4   D) 1

8. Three or more than three points lie on the same line, they are called

    A)common points   B) collinear   C) coplanar   D) None

9. If x^0 and $4x^0$ are supplementary angles, then the value of x is

      A) 144^0 B) 18^0 C) 36^0 D) 180^0

10. The point (-2, 3) lies in _____ quadrant

      A)IV   B) III   C) II   D) I

11. The meeting of the two axes in the co-ordinate plane is called

    A)Origin   B) X-axis   C) Y-axis   D) None

12. If in ΔPQR, PQ > QR then

            A) $\angle R < \angle P$ B) $\angle P > \angle Q$
            C) $\angle R > \angle P$ D) $\angle P < \angle Q$

13. Range of the data "18, 24, 15, 17, 33, 16, 29, 45, 12, 3, 33, 21" is

      A) 33   B) 42   C) 48   D) 30

14. _____ is made up of cardiac muscle

    A)Heart   B) Lungs   C) Kidney   D) Brain

15. Cockroach blood is _____ in colour
     A)Red   B) Blue   C) White   D) Black
16. O_2 and CO_2 pass through the membrane through the process of
        A)Diffusion   B) Osmosis   C) Both   D) None

17. Archae bacteria come under the category of _____
     A)Classification of plants   B) Classification of animals
     C)Classification of prokaryotes   D) Classification of Eukaryotes

18. Lichens are the examples of _____ kingdom
     A)Monera   B) Protista   C) Fungi   D) Algae

19. The phylum which have jointed legs
        A)Colenteneterata B) Nematyhelmenthes C) Annelida   D) Arthopoda

20. The area of best vision is called as
        A)Yellow spot   B) Macula   C) Fovea   D) All the above

21. _____ secrete tears
        A)Sebaceous glands   B) lachrymal glands   C) Ceruminous glands   D) Sweat glands

22. _____ nerve in tongue carries taste message to the brain
     A)Olfactory   B) Taste line   C) Optic   D) Hotline

23. This crop require more quantity of water
        A)Paddy   B) black gram   C) Ground nut   D) Bajra

24. Why _____ you gone to school today?
        A)didn't   B) don't   C) haven't   D) hasn't

25. Read the following passage and EDIT the underlined parts
The rivers carries[42] our canoes and feed our children. If we sell you our land, you must remembered [43]
that it is sacred blood of our ancestors.
A) carried   B) carry   C) carrying   D) hadcarried
A) remember   B) remembering   C) to remember   D) have remember

26. They give speech on environment. – Change to Yes/No question.
A) Did they give speech on environment?
B) Do they given speech on environment
C) Does they give speech on environment?
D) Will they give speech on environment?

27. I woke up late. I missed the school bus. Combine with "As"
A) As I missed the school bus, I woke up late
B) As I wakes up late, I missed the school bus
C) As I woke up late, I missed the school bus
D) As I wake up late, I misses the school bus

28. Chandra got first rank. He worked hard. Combine with "Since"
 A) Since Chandra worked hard, he got first rank
A) Since Chandra got first rank, he worked hard
B) Since Chandra work hard, he got first rank
C) All the above

29. The pole vault is truly the <u>glamour</u> event.[Write the synonym of underlined word]
    A) Proud   B) battering   C) attraction   D) emotional

30. They _____ a new business. [Choose correct Phrasal verb]
A) Set out B) Set up   C) Set off   D) Set in

31. It is my_____ dream to earn more.
[Fill the blank with correct collocation]
A) heart-felt   B) childhood C) richly decorated   D) None

32. He had a sudden flood of courage, the courage that comes of <u>desperation</u>.
[Write the synonym of the Underlined word]
A) anxietyB) pleasure   C) satisfaction D) contentment

33. Match the below ones:
1. lithosphere   A) water
2. hydrosphere   B) life
3. atmosphere   C) vapour
4. biosphere   D) hard top
    A) D,C,A,B   B) D,B,C,A   C) D,A,C,B   D)C,A,B,D

34. Oceans and continents are ------------------
    A) second order landforms   B)third order landforms
    C) first order landforms   D)fourth order landforms

35.Which of the following causes seasons on the earth?
    A .daily rotation of the earth on its axis
    B) Monthly movement of the moon around the earth
    C) Revolution of the earth around the sun
    D)tilt of earth's axis of rotation to its orbital,plane.

36. "Igneous rocks" belongs to ----------------------
    A .winds   B) earthquakes   C) volconoes   D) water erosion

37.River water contains -------- % of sodium chloride.
    A)2%   B)4%   C)3%   D)5%

38. Longitudes are -----------------
    A) circles   B)semi circles C) straight lines   D)curves

39. The water body that contains the world's highest salinity is ----------

    A) dead sea   B)lake van   C)baltic sea   D)hudson bay

40. About ------ of the world's land is made up of deserts.
    A)1/5   B)1/4   C) 1/6   D)1/10

41. Which one is not belongs to gondwana land?
    A) Africa   B) India   C) North America   D)Australia

42. Who scored two double hundreds in one day cricket

    A) Mahendra singh dhoni   B) sachin   C)sehwaugh   D) rohith sharma

43. Slow moving of mass of ice is called as -----
    A)the glaciers   B)the river   C)the waterful   D) the meander

44. What day of the week does May 28 2006 fall on
    A) Saturday   B) Monday   C) Sunday   D)Thursday

45. Two numbers are in the ratio 2 : 3. If their L.C.M. is 48. what is sum of the numbers?

    A) 28   B) 40
    C) 64   D) 42

46. Which of the following is a prime number ?

    A) 9   B) 8

    C) 4   D) 2

47. How many terms are there in the G.P. 4, 8, 16, 32, ... , 1024?
    A) 9   B) 8
    C) 7   D) 6

48. 2+22+222+2.22=?2+22+222+2.22=?
    A) 246   B) 248
    C) 248.12   D) 248.22

49. If P and Q are odd numbers, then which of the following is even?
    A) P + Q   B) PQ
    C) P + Q + 1   D) PQ + 2
50. Roger Federer is belongs to
    A)Cricket   B)Tennis   C)Football   D)Hockey

51. LataMangeshkar is belongs to
A) Singing   B) Actress   C) Sports   D) None of These

52.Who was the first Nobel prize winner in India
A)C) V. Raman   B)Rabindranath Tagore   C)Amartya Sen   D) None of These

53.Who was the Second Nobel prize winner in India
A) HarGovind Khorana   B)Kailash Satyarthi   C)C) V. Raman   D)None of These

54. In which year was Rabindranath Tagore awarded
A) 1945   B) 1913   C) 1930   D) 1979

55. Where is the international court of justicelocated
A) Geneva   B) Hague   C) London   D) New York

56. Where is the World Health Organization (WHO)?
A)Geneva   B) Tokyo   C) Beijing   D) New York

57. What is capital of Japan?
A) Kathmandu   B) Tokyo   C) Moscow   D) Canberra

58. What is the Name of Scientist, who stated that matter can be converted into energy
A) Boyle   B) Avogadro   C) Einstein   D) None of these

59. Substances (i) Water   (ii) Air   (iii) Iron pipe
Which of the above can act as medium for sound propagation ? Choose the correct answer:
A) (i) only   B) (i) and (ii) C) (ii) only   D) (i), (ii) and (iii)

60. Length of vocal cords in men
A) nearly 10 mm   B) nearly 20 mm   C) nearly 30 mm   D) less than 15 mm

61. Identify the musical instrument with Strings
A) Tabala   B) Flute   C) Guitar   D) Mouth organ

62. Liquid metal
A) Sodium   B) Silver   C) Mercury   D) Magnesium

63. Which of the following statement is false about "Acrylic"
A) Winter wear is made of Acrylic   B) It is considered as artificial wool
C) It is generally called fake fur   D) None of these

64. The material required to perform an activity to observe the effect of contact force on friction are ....
A) Spring balance, thread, trolley.   B) Spring balance, brick
C) Brick, thread, trolley.   D) Spring balance, thread, brick

65. Substances
(i) Face cream (ii) Shoe polish   (iii) Paints

Which of the above substances are manufactured by using Petroleum resources ?
Choose the correct answer:

A) (i) only   B) (i) and (iii)

C) (iii) only   D) (i), (ii) and (iii)

66. Exhaustible resource

A) Wind energy   B) Solar energy

C) Petroleum energy   D) Tidal energy

67. The force applied on an unit area is   called

A) Force   B) Pressure   C) Friction   D) Tension

68. This is not an example for "Sonorous metal"

A) Mercury   B) Gold   C) Aluminum   D) Magnesium

69. Which one of the following is useful for environment?

A) Kerosene   B) Cow dung   C) Petrol   D) Natural gas

70. Coal: Plants = Petroleum: ....

A) Carbonization   B) Plankton   C) Carbonation   D) Seas

ఈ క్రింది వికృతి పదాలకు ప్రకృతి పదాలు రాయండి

71. గారవం - _____

72. రాతిరి - _____

73. సఖి - _____

ఈ క్రింది పదాలను విడదీసి, సంధి పేరు రాయండి

74. విమానాశ్రయం - _____ + _____ - _____

75. ఒక్కొక్కప్పుడు - _____ + _____ - _____

76. జగములేలు - _____ + _____ - _____

ఈ క్రింది పదాలకు పర్యాయ పదాలు రాయండి

77.కుమార్తె - _____ , _____

78.సజ్జనుడు - _____ , _____

ఈ క్రింది సమాసాలకు విగ్రహవాక్యాలు రాసి సమాసం పేరు తెలపండి

79.కర్మశాల _____ _____

80. మూడుదోషాలు _____ _____

निम्नलिखित गद्यांश पढ़कर दिये गये प्रश्नों के उत्तर विकल्पों से चुनकर लिखिए ।

　　　एक गाँव में एक धनी किसान रहता था । उसके पास बहुत सी ज़मीन थी । उसके यहाँ बहुत से आदमी काम कर रहे थे । उस किसान के दो लड़के थे । जब दोनों लड़के बड़े हो गये तो किसान ने उन्हें आधी–आधी ज़मीन बाँट दी । बड़ा लड़का बहुत सुस्त और आलसी था । वह कभी अपने खेतों को देखने तक नहीं जाता था ।

प्रश्न:–

81) किसान कैसा था ?

　　A) मेहनती　　　B) धनी　　　C) होशियार　　　D) गरीब

82)　किसान के पास क्या थी ?

　　A) सोना　　　B) हीरे　　　C) ज़मीन　　　D) चाँदी

83)　किसान के कितने लड़के थे ?

　　A) एक　　　B) दो　　　C) तीन　　　D) चार

84) किसान ने आधी–आधी ज़मीन किनको बाँट दी ?

　　A) लड़कों को　　B) बहिनों को　　C) भाईयों को　　D) लोगों को

85)　'गाँव' का विलोम शब्द क्या है ?

　　A) देहात　　　B) शहर　　　C) ग्राम　　　D) महानगर

निम्नलिखित प्रश्नों के उत्तर विकल्पों से चुनकर लिखिए ।

86) फटा दूध <u>माखन</u> नहीं बनता । (रेखांकित शब्द का तद्भव रूप पहचानिए)[   ]

A) मखन   B) मक्खन   C) मकान   D) मक्का

87) <u>माँ</u> ने आत्मविश्वास के साथ कहा ।

(रेखांकित शब्द का पुं.लिंग रूप पहचानिए ।)   [   ]

A) राजा   B) माता   C) बाप   D) रानी

88) मुझे पंचतंत्र की <u>कहानी</u> पसंद है ।

(रेखांकित शब्द का वचन बदलिए ।)   [   ]

A) कहानियाँ   B) कहानियें   C) कहाने   D) कहानों

89) <u>बारिश</u> रुकने तक देर हो गयी ।

(रेखांकित शब्द का पर्यायवाची शब्द पहचानिए।)   [   ]

A) वर्ष   B) वर्षा   C) सोम   D) बादल

90) रामू घर में बहुत खेलता है । क्रिया विशेषण शब्द को पहचानिए ।   [   ]

A) रामू   B) घर   C) बहुत   D) खेलता

SECTION - II

91. The sum of two numbers is 29 and one number exceeds another by 5. Find the Numbers

A) 7, 12   B) 12, 17   C) 15, 14   D) 17, 22

REASON:

92. What will be the least number which when doubled will be exactly divisible by 12, 18, 21 and 30?

a) 196   B) 630   C) 1260   D) 2520

REASON:

93. In how many different ways can the letters of the word 'CORPORATION' be arranged so that the vowels always come together?

a) 810   B) 1440   C) 2880   D) 50400

REASON:

94. A number consists of two digits. If the digits interchange places and the new number is added to the original number, then the resulting number will be divisible by:

a) 3   B) 5   C) 9   D) 11

REASON:

95. The metal reacting extremely fast with cold water is _____.
    A) Gold   B) Silver   C) Sodium   D) Magnesium
    REASON:

96. Area of a trapezium is 352 cm^2, Length of one parallel side is 25 cm and distance
    Between two parallel sides is 16 cm. Find the length of the other parallel sides
    A) 14 cm   B) 12 cm   C) 19 cm   D) 21 cm
    REASON

97. The mode of 10, 12, 11, 10, 15, 20, 19, 21, 11, 9, 10
    A) 12   B) 11   C) 10   D) 15
    REASON

98. Hema is 24 years elder to her daughter Damini. If the Hema age is 3 times to that of Damini, then
    Damini is age is [ ]
    A) 28   B) 12   C) 16   D) 14
    REASON

99. $\sqrt{625} + \sqrt{441}$ =?
    A) 47   B) $\sqrt{1066}$ C) 46   D) 45

    REASON

100.   Find the odd man out
    3, 5, 7, 12, 17, 19
    a) 19   B) 17   C) 5   D) 12
    REASON