Answer Q. No. 59 and 60 from the figure given below :

1	2	a	6
2	3	4	9
4	2	1	7
b	2	4	8

59. The value of 'a' in the figure is

    a) 4   b) 3   c) 2   d) 5

60. The value of 'b' in the figure is

    a) 4   b) 3   c) 2   d) 5

———————

46. If 1003406 be expressed in words, it will be

    a) ten lac three thousand four hundred six
    b) ten crore three lac four hundred six
    c) ten crore three thousand four hundred six
    d) ten crore thirty thousand four hundrend six.

47. A solid with single plane is a

    a) cylinder   b) hemisphere   c) sphere   d) cube

For Q. No 48 to Q. No. 50;

if $5×9=45$; $55×9=495$; $555×9=4995$; $5555×9=49995$; then

48. $55555×9 =$

    a) 4499995   b) 499955   c) 449995   d) 499995

49. $49999995 =$

    a) 55555×9   b) 5555555×9   c) 55555555×9
    d) 555555555×9

50. $\dfrac{495}{4995} =$

    a) $\dfrac{11}{111}$ b) $\dfrac{111}{1111}$ c) $\dfrac{1}{5}$ d) $\dfrac{13}{45}$

51. $66667+66667+66667+66667+66667 =$

    a) 33335   b) 333335   c) 3333335   d) 33333335

52. The greatest whole number, that can divide 155, 217 and 279, is

    a) 41   b) 31   c) 51   d) 61

(IV-8)

53. Total weight of 15 brinjals of equal weights is 1kg 125g. Total number of brinjals of this kind and of same weight in 3kg 750g is

    a) 30   b) 45   c) 50   d) 55

54. Sita was asked to divide a number by 15. But by mistake she divided the number by 25 and got 6 as quotient and zero as remainder. If she would divide the number correctly, the quotient would be

    a) 15   b) 8   c) 12   d) 10

55. The correct relation in the following is

    a) $\dfrac{2}{3}<\dfrac{3}{4}<\dfrac{4}{5}<\dfrac{5}{6}$ b) $\dfrac{3}{4}<\dfrac{2}{3}<\dfrac{4}{5}<\dfrac{5}{6}$ c) $\dfrac{4}{5}>\dfrac{2}{3}>\dfrac{3}{4}>\dfrac{5}{6}$

    d) $\dfrac{5}{6}>\dfrac{2}{3}>\dfrac{3}{4}>\dfrac{5}{4}$

56. The base of a tetrahedron is a

    a) square   b) triangle   c) rectangle
    d) quadrilateral

57. A shopkeeper sold rice of 5kg 700g, 6kg 800g and 9kg 300g to three customers respectively. Still he had 41kg 200g of rice with him. The quantity of rice he had before selling was

    a) 62kg 500g   b) 64kg   c) 62kg   d) 63kg

58. From a rope 12m long, three parts of lengths 3m 50cm, 2m 60cm and 4m 70cm were cut off. The remaining length of the rope was

    a) 1m 80cm   b) 20cm   c) 2m 20cm   d) 1m 20cm

(IV-9)

T.O.

31. Total length of the four sides of your garden is
    a) 200 m   b) 360 m   c) 400 m   d) 380 m

32. Total number of nut trees in your garden was
    a) 78   b) 80   c) 72   d) 84

33. The total cost of the nut plants was
    a) ₹ 720   b) ₹ 840   c) ₹ 800   d) ₹ 780

34. Total quantity of mangoes produced in the garden in this year was
    a) 100000 kg   b) 5000 kg   c) 8000 kg
    d) 10000 kg

35. If each guava tree produces equal quantities of guava, then the quantity of guava produced by one guava tree this year was
    a) 200 kg   b) 100 kg   c) 250 kg   d) 225 kg

36. The total selling price of mangoes, guavas and lemons produced this year in this garden was
    a) ₹ 341000   b) ₹ 1504005   c) ₹ 10540500
    d) ₹ 1504050

37. Total amount spent for fertiliser and pestiside this year was
    a) ₹ 5500   b) ₹ 6000   c) ₹ 5000   d) ₹ 50000

38. How many part of the total weight of mangoes is the total weight of guavas?
    a) $\frac{3}{10}$ b) $\frac{4}{5}$ c) $\frac{2}{5}$ d) $\frac{1}{10}$

(IV-6)

39. How many part of the cost of 1kg of guava is the cost of 1kg of mango?
    a) $\frac{4}{5}$ b) $\frac{3}{4}$ c) $\frac{4}{3}$ d) $\frac{1}{2}$

40. If each nut tree produce 5kg of nuts this year, then the total weight of nuts produced this year was
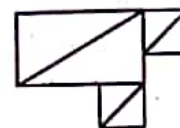   a) 390 kg   b) 400 kg   c) 420 kg   d) 360 kg

41. Of the following, the number which cannot divide 120, 540, 450 and 660, is
    a) 17   b) 6   c) 10   d) 5

42. Which number is to be placed in ☐ to make the relation
    $54 - ☐ + 6 = 5 × ☐$ correct?
    a) 5   b) 10   c) 8   d) 6

From the given figure answer Q. Nos. 43 to Q. Nos. 45.

In the given figure,

43. the number of rectangle / rectangles is
    a) 1   (b) 3   (c) 6   (d) 2

44. the number of squares, is
    a) 1   b) 3   c) 6   d) 2

45. the number of triangles, is
    a) 3   b) 6   c) 5   d) 4

(IV-7)   T.O.

21. Time required by the moon to move round the earth once, is

a) 29 days b) $29\frac{1}{2}$ days c) $29\frac{2}{3}$ days d) $29\frac{3}{4}$ days

22. Normal temperature of the human body is

a) $98^\circ F$ b) $98.4^\circ F$ c) $99^\circ F$ d) $100^\circ F$

23. To keep our body healthy, our body fights against germs with the help of

a) red blood cell b) white blood cell c) platelets
d) plasma

24. Wet garments dry-up quickly in winter than in rainy season. The reason is, in winter, there is

a) more water-vapour in air b) less water vapour in air
c) more carbon dioxide in air d) more oxygen in air

25. The Emperor, who made 'Jama Mosque' in Delhi, is

a) Babur b) Sher Shah c) Akbar d) Sahajahan

26. For photosynthesis, the plants takes _____ and gives up _____ in the air. The blanks can be filled up respectively with

a) hydrogen; oxygen b) carbon-di-oxide; oxygen
c) oxygen; nitrogen d) nitrogen; hydrogen

27. Gravitational Force is not needed for

a) jumping to the water.
b) falling of leaf from the tree.
c) rolling stones along the surface of the mountains.
d) pulling rikshaw on the plane.

28. Where the sky meets the land – is known as

a) horizon b) horizontal ring c) edge line
d) edge ring

29. The state, where 'Sun Temple' of Konark is located, is

a) West Bengal b) Orissa c) Bihar d) Rajasthan

30. In Barrakpur, North 24 Parganas – there is

a) Neheru Memorial Museum.
b) Sarat Memorial Museum.
c) Gandhi Memorial Museum.
d) Vidyasagar Memorial Museum.

Read the following passage and answer Q. No. 31 to Q. No. 40.

You have a rectangular garden in front of your house. The garden has length of 100m and breadth of 80m. In this garden, there are 20 mango trees, 10 guava trees and 5 lemon trees. Along the boundary of this garden, there are nut trees keeping a distance of 5m between two consecutive trees. On each corner there must be a nut tree. In one year, each mango tree produced 500kg of mangoes, total weight of the guavas produced by the trees is 1000kg and total number of lemons produced by the trees is 2000. The selling price of 1kg of mango is ₹ 30, 1kg of guava is ₹ 40 and of one lemon is 50p. For these trees 200kg of fertiliser, 20 litres of pesticide were used and labour cost of ₹ 50,000 was spent in this year. The cost of 1kg of fertiliser is ₹ 20 and that of 1 litre of pesticide is ₹ 50. To buy 1 nut plant ₹ 5 had been spent.

3. The name of the flower that blooms only in summer, is

a) jasmine b) marigold c) china-rose d) balsam

4. Birds need specially to fly in the sky

a) stomach b) heart c) bone d) air-sac

5. Respiratory organ of the plants grown in salty soil is

a) breathing root b) stilt root c) fibrous root d) leaf

6. Astronomer, 'Aryabhatta', was born in

a) England b) Russia c) Japan d) India

7. The name of the creature that has disappeared from the earth forever is

a) royal bengal tiger b) pink headed duck
c) one horned rhinoceros d) olive ridley turtle

8. When we ascend high mountain, our breathing problem occurs. Because, air contains

a) less oxygen b) more oxygen c) more water vapour
d) more inert gas

9. "Badabon" (swampy forest) is the name for

a) jungle of Assam b) jungle of Darjeling c) jungle of Purulia
d) jungle of Sundarban

10. To increase the number of tigers, it is necessary to

a) bring tigers at home as pet b) stop hunting tigers
c) feed the tigers d) stop entry of visitors to the jungle

11. With ragged cloth Bengali girls make

a) blanket b) dolls c) thick thistle d) designed thistle

12. To prevent pollution of the environment, we need

a) plantation b) felling down trees c) keeping the garbage dump d) ignite the fire

13. West Bengal's 'gala' (lac) industry is located at

a) Jhaldah b) Sujapur c) Shrirampur d) Nabadwip

14. The dancing song of Santal girls is

a) Jhumur b) Gambhira c) Baul d) folk-song

15. The house, where patatoes are kept for storage throughout the year, is called

a) shrighar b) go-down c) cold storage
d) closed room

16. Which birds come every year in 'Santragachhi Jhil' of Howrah?

a) Gander b) Duck c) Migratory duck d) Sea gull

17. Plants grown in 'Mufflong Forest' in Meghalaya is

a) kurji tree b) shawl tree c) teak tree d) pine tree

18. The founder of 'Bratachari' was

a) Gurupada Dutta b) Gurusaday Dutta
c) Guruprasad Dutta d) Gurugobinda Dutta

19. Black smoke coming out of the factory, contains

a) carbon-di-oxide b) essential element
c) unwanted material d) none of a), b) and c

20. The space-craft sent in search Saturn is known as of

a) Cassini b) Curiosity c) Insat d) Path-finder

All India Science Teachers' Association, West Bengal.

SCIENCE APTITUDE AND TALENT SEARCH TEST-2019.

Time : 1 hr. 45 min.   Full Marks : 60

Class - IV

INSTRUCTIONS :

1) Write your name, class, name of school and roll number both at left and right side on the answer sheet. 2) In the question paper you will find your probable answers : a), b), c), and d) against each question. Find out which of the answers appears to you to be correct or the best. There are four circles on the answer sheet corresponding to each question no. a), b), c), and d). Now mark the circle below the letter of the selected answer in the answer sheet by putting a cross mark distinctly with a ball pen as shown here ○○⊗○; here c) is the correct answer. 3) 1 mark will be awarded for each correct answer and 1 mark will be deducted for 3 wrong answers. Don't write anything on the question paper. 4) Don't underline or tick the answer on the question paper. Submit the answer sheet only after the examination. 5) You may use additional blank sheet for any rough work, if necessary. 6) Do not waste time for answering a question which appears difficult to you, better try next question. If you consider first answer wrong, blacken it like ● and put ⊗ on correct answer.

1. A nocturnal bird is

   a) tailor bird   b) owl   c) tuntuni   d) heron

2. Dense dark ctouds are formed in the sky with

   a) water   b) water vapour   c) tiny water particles
   d) smoke

(IV-1)   T.O.