SECTION-I
ENGLISH

Question 1-3 : Read the following extract and answer the given questions :

Baseball began in the United States in the early 1800s. Some people believe that Abner Double day invented the game. Others think that baseball came from an old British sport called rounders. Baseball and rounders are very similar However in rounders, the field players throw the ball right at the runner. If the ball hits the runner, he or she is out. In baseball, a field player just touches the ball to the base or the running player to get the player out.

Today's baseball players use special equipments to help to prevent injuries. Field players wear baseball gloves to protect their hands. The catcher wears a metal mask, a chest protector and shin guards. Batters wear plastic helmets to protect their heads.

Every spring in the United States, people of all ages play baseball at local baseball fields. It's no wonder that baseball is called the national past time of the United States.

1. Which of the following statements informs us about how baseball originated, as per the passage ?

   (1) It was derived from cricket

   (2) It was invented by an unknown sportsman

   (3) It is probably derived from a British game called rounders

   (4) None of these

2. Which of the given statements are incorrect as per the passage ?

   (a) Batters wear special gloves to protect their hands.

   (b) Catchers wear masks and chest protectors.

   (c) Fielders wear shin guards to protect their legs.

   (d) Umpires wear metal masks on their faces.

   (1) b, c and d   (2) a, c, and d

   (3) b and c   (4) only b

SPACE FOR ROUGH WORK

3. Choose two correct statements related to baseball and rounders.

(1) Today's baseball players use special equipments to help to prevent injuries.

(2) To make a batter out in baseball, the ball must hit him when he is running between bases.

(3) To make a batter out in rounders, the ball needs to touch the base or the player while he is running

(4) People of all ages play baseball at local baseball fields.

Question 4-6 : Read the following poem and answer the questions :

From breakfast on through all the .day
At home among my friends I stay,
But every night I go abroad
Afar into the land of Nod.

All by myself I have to go,
with none to tell me what to do
All alone beside the streams
And up the mountatin-sides of dreams.

The strangest things are these for me,
Both things to eat and things to see,
And many frightening sights abroad
Till morning in the land of Nod.

4. 'But every night I go abroad,
Afar into the land of Nod.'
The above lines means ....

(1) That the poet physically goes abroad every night

(2) That every night poet goes abroad in his dreams.

(3) That every night the poet goes abroad with his friends.

(4) That every night the poet goes to the park with Nod.

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5. Why was the trip to the land of Nod a difficulty ?
   (1) There was no one to guide him
   (2) He had to go abroad at night
   (3) Poet's friends were there to help him
   (4) He had to climb up mountains

6. The rhyming scheme of the 1st stanza of the poem is ....
   (1) a d b c
   (2) a b a b
   (3) a b c d
   (4) a a b b

7. Choose the correct pair of noun form
   (a) Summarize
   (b) Summary
   (c) Summation
   (d) Summarily
   (1) (a, b)
   (2) (c, d)
   (3) (b, c)
   (4) (b, d)

8. Fill in the blank with suitable modal auxiliary which denotes 'ability'.
   The baby .... walk without difficulty.
   (1) must
   (2) may
   (3) should
   (4) can

9. Pick out the correct passive voice of the following sentence.
   You will have finished this work by tomorrow.
   (1) This work will have been finished by you tomorrow
   (2) This work will have being finished by you tomorrow
   (3) This work will be finished by you tomorrow
   (4) This work will finish tomorrow

10. Which one of the following pair is not a word register of 'forest'.
    (a) Buildings
    (b) Animals
    (c) Trees
    (d) Play ground
    (1) (a, b)
    (2) (c, d)
    (3) (a, d)
    (4) (b, c)

SPACE FOR ROUGH WORK

11. Choose two examples of 'Personification'.

   (1) Ministers are the pillars of the state

   (2) Laughter holding back her sides

   (3) The hills rejoice and clap their hands

   (4) She wept oceans of tears

12. Pick out a pair of antonyms for the given word *'Violent'*.

   (a) Gentle   (b) Tame

   (c) Non-violent   (d) Humble

   (1) (a, b)   (2) (b, c)   (3) (c, d)   (4) (a, c).

13. She said, " you were wrong dad."
   Complete the indirect form by choosing the correct option.
   She said to her dad that ....

   (1) He had been wrong   (2) He were wrong

   (3) He would be wrong   (4) He was being wrong

14. Choose the incorrect pair of code-mixing.

   (1) Ghat-pass   (2) Tekdi-mountain

   (3) Buruz-tower   (4) Darwaza-door

15. Identify the sentence that contains the correct positive degree of comparison.
   Rangoli is one of the most beautiful art forms of India.

   (1) No other art form of India is as beautiful as Rangoli

   (2) Rangoli is as beautiful as any other art form of India

   (3) Very Few art forms of India are as beautiful as Rangoli

   (4) No other art form of India is more beautiful than Rangoli

SPACE FOR ROUGH WORK

Q 16-18 : Study the letter and answer the questions

Class VIII
Mile stone school,
Nagpur-28
15th January 2017

To
The Librarian,
Milestone school.
Nagpur-28.

Subject- **Thanks giving for providing facilities.**

Sir,

Thank you very much for kindly making the home reading facility available to us. We are really grateful that you are going to wait back one hour after school just for us. We can now read books of our choice at a stretch. Thanking you for your encouragement.

We promise to abide by the library rules and handle the books with great care.

Students of std VIII

16. Choose two correct alternatives.
Students thank their Liabrarian-
(1) For making available the home reading facility
(2) For giving the order to handle the books carefully
(3) For discouraging students to read the books
(4) For getting facility to read books of their choice at a stretch

17. The problems faced by students before getting facilities from Librarian are ....
(A) Non availability of home reading books
(B) Library used to be closed after school
(C) Books were available on large fees.
(1) A and C correct   (2) B and C correct
(3) A and B correct   (4) A, B, C correct
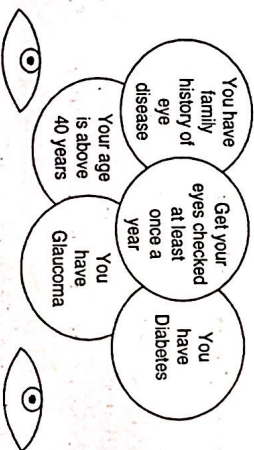
SPACE FOR ROUGH WORK

18. Which one of the subscription will be the most appropriate for the given letter ?

   (1) Yours lovingly   (2) Yours true friend

   (3) Yours affectionately   (4) Yours sincerely

Q 19-20. Observe and read the advertisment and answer the given questions.

WORLD SIGHT DAY

13th OCTOBER 2016

You have family history of eye disease

Your age is above 40 years

Get your eyes checked at least once a year

You have Glaucoma

You have Diabetes

Free Eye Check up and treatments are available in the designated Health Centers.

Primary Health Center   Medical College

Community Health Center   Regional Institute Opthalmology

District Hospital   Selected NGOs.

Organized By :

National Programme for Control of Blindness Directorate General of Health Services.

19. Free eye check up and treatment is not provided at which center ?

   (1) Community Health Center   (2) Primary Health Center

   (3) Regional Institute Opthalmology   (4) Secondary Health Center

20. Problems in vision may occur due to certain diseases.
Choose the correct pair for vision problem.

   (a) Glaucoma   (b) Diabetes

   (c) Heart problem   (d) Chicken Pox

   (1) (b, c)   (2) (a, b)   (3) (c, d)   (4) (a, d)

SPACE FOR ROUGH WORK

21. 'Safety on road is safe tea at home'.

The above slogan means ....

(1) To have tea at a halt on the road

(2) Road side tea keeps the driver safe

(3) To have tea while driving

(4) To drive safety on the roads

22. Identify the sentence which is in the past continous tense.

(1) The policeman is catching the thief

(2) She passed the examination last year

(3) The dog was barking continuously at strangers

(4) The phone had been ringing for a long time

23. Use the correct question tag for the following sentence.

The persians were not ready for battle, ... ?

(1) Were they   (2) Weren't they   (3) Was they   (4) Won't they

24. Pick out the correct meaning of the following pharse.

The soldiers *laid down their arms.*

(1) Surrendered   (2) Put their arms on the ground

(3) Refused to obey orders   (4) Put the arms is their place

25. Synthesis the given sentences and choose the correct alternative.

The officers stood straight. The officers listened carefully to their commander.

(1) The officers stood not only straight but also listened carefully to their commander

(2) The officers not only stood straight but also listened carefully to their commander

(3) Not only the officers stood straight but listened carefully to their commander

(4) The officers not only stood straight and listened but also carefully to their commander

MATHEMATICS

26. Find the length of side of a square, if the length of diagonal is 13cm.

    (1) 12 cm   (2) $6.5\sqrt{2}$ cm   (3) $13\sqrt{2}$ cm   (4) 13 cm²

27. 2.7% of 4560=?   [choose two correct options]

    (1) 12312×10^{-2} (2) 123.12

    (3) 12.312   (4) 12312×10^{-3}

28. A fruit seller purchased 50 dozen bananas at Rs. 40 per dozen and sold them all at Rs. 52 per dozen. What was his profit percentage?

    (1) 26%   (2) 30%   (3) 32%   (4) 28%

29. A rope of length 420m is cut down at 6 places at same distance. Then what is the length of each piece in cm?

    (1) 7000   (2) 70   (3) 700   (4) 6000

30. Which of the following statement is not true? [choose two correct option]

    (1) The diagonals of a rhombus bisect each other.

    (2) The diagonals of a rhombus are perpendicular to each other.

    (3) All angles of rhombus are congruent.

    (4) The diagonals of a rhombus are congruent.

31. A side of cube is 12cm. Such three solid cubes are melted to form a cuboid. If the base area of the cuboid is 144 sq.cm then what is the height of that cuboid? [choose two correct option]

    (1) 36cm   (2) 0.36m   (3) 12cm   (4) 0.12m

SPACE FOR ROUGH WORK

32. Which of the following statement is correct?

(1) The rational number $\dfrac{43}{40}$ is on the left side of zero, on the number line.

(2) The rational number $\dfrac{-17}{-19}$ is on the left side of zero ,on the number line.

(3) The rational number $\dfrac{27}{29}$ is on the right side of zero on the number line.

(4) The number $\dfrac{-8}{3}$ and $\dfrac{3}{7}$ are on the same side of zero, on the number line.

33. The number of boys in 8th standard in the school are less by 10 than twice the number of girls. If the total number of students in the class is 71, then find the number of boys?

(1) 44   (2) 61   (3) 54 .   (4) 64

34. Which polynomial should be added in $2x^5 - 3x + 1$ to get the polynomial $3x^2 + 5x + 1$?

(1) $2x^5 + 8x$ (2) $-2x^5 - 8x - 3x^2$

(3) $2x^5 - 8x$ (4) $-2x^5 + 8x + 3x^2$

35. Few chocolates are there in a bag. If these chocolates are distributed equally to 12 children then 8 chocolates remain and if equally distributed to 14 children then 10 chocolates remain. Then how many chocolates are there in the bag?

(1) 30   (2) 28   (3) 80   (4) 84

36. If the length of one diagonal of rhombus having side 25 cm, is 14 cm then what will be the length of other diagonal?

(1) 48 cm   (2) 14 cm   (3) 25 cm   (4) 31 cm

37. Balbir Singh purchased a machine 2 years ago for Rs.62500. If the value of machine decreases by 8% per year, then what will be the value of the machine today?

(1) Rs. 53,900   (2) Rs. 52,900   (3) Rs. 52,800   (4) Rs. 52,700

38. The measure of an inscribed angle of circle is 65°, then what will be the measure of central formed by intercepted arc of that inscribed angle?
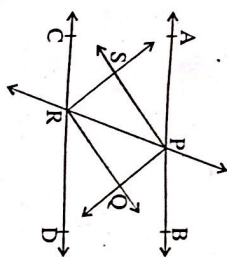
(1) 65°   (2) 120°   (3) 130°   (4) $32\dfrac{1}{2}°$

39. One shopkeeper gives 8% discount on printed price of camera, if he sold the camera for Rs. 4600 then what is the printed price of camera?

(1) Rs. 5000   (2) Rs. 4592   (3) Rs. 4608   (4) Rs. 4000

40. What is the cost of fencing the circular garden of radius 21 m with three rounds of wire, if the wire cost Rs. 60 per m?

(1) Rs. 2,3760   (2) Rs. 23,740   (3) Rs. 22,760   (4) Rs. 22,740

41. The ratio of measure of complementary angle of one angle with its measure of supplementary angle is 2 : 5, then what will be the ratio of that angle with its supplementary angle?

(1) 1 : 10   (2) 1 : 5   (3) 3 : 10   (4) 1 : 15

42. If each side of the equilateral triangle is 22cm, then what is the area of that triangle?

(1) 66 sq. cm   (2) 121 sq. cm

(3) $120\sqrt{3}$ sq. cm   (4) $121\sqrt{3}$ sq. cm

43. Arpita scored 20% marks less than Ajay, then how many % marks Ajay scored more than Arpia?

(1) 25%   (2) 20%   (3) 5%   (4) 10%

44. $\dfrac{10.5 \times 10.5 + 15 \times 10.5 + 7.5 \times 7.5}{10.5 + 7.5} = ?$

(1) 18   (2) 17   (3) 3   (4) 15

45. The difference of the sum of prime numbers and sum of composite numbers in between 11 to 20 is completely divisible by which of the following numbers?

(A) 2   (B) 5   (C) 7   (D) 13

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

SPACE FOR ROUGH WORK

46. In fig. line AB ∥ line CD and line PR is their transversal. If we draw angle bisector of both pairs of alternative angle then □ PQRS is formed. Name the type of □ PQRS.

(1) Right angle quadrilateral

(2) Kite

(3) Square

(4) Trapezium

47. The diameter of wheel of minibus is 0.7m, the find the distance covered by the wheel in 5000 rotation.

(1) 14 km

(2) 12 km

(3) 10 km

(4) 11 km

48. The measure of an angle is 140°, then which of the following statement is not true?

(1) Can draw its complementary angle.

(2) Can draw its supplementary angle.

(3) Can draw its opposite angle.

(4) Can draw its linear pair angle.

49. The co-ordinate of point P is $\frac{-5}{9}$ on the number line. The distance between point P and Q is 4 then which is the co-ordinate of point Q? [choose two correct options]

(1) $-4\frac{5}{9}$

(2) $3\frac{4}{9}$

(3) $4\frac{5}{9}$

(4) $-\frac{1}{9}$

50. By melting of a solid cuboid of length 16cm, breadth 11cm, height 10cm, how many solid coins of 0.2cm thick and 2cm diameter can be formed?

(1) 2200

(2) 2400

(3) 2600

(4) 2800

51. The curved surface area of cone is 188.4 sq. cm. The radius of its base is 6 cm, then what is the perpendicular height of the cone? ($\pi = 3.14$)

(1) 6 cm

(2) 8 cm

(3) 10 cm

(4) 31.4 cm

52. $-512x^{17} + 64x^8 = ?$ [choose two correct options]

(1) $23x^9$

(2) $-8x^9$

(3) $-23x^9$

(4) $8x^9$

SPACE FOR ROUGH WORK

53. The average age of boys in the class is 15.5 years, while girls average age is 16.5 years. The average age of total students of the class is 16 years. If there are 30 boys in class then find the number of girls in class.

(1) 15　　　　(2) 16　　　　(3) 30　　　　(4) 60

54. The number 3 * ⚫ 6 is completely divisible by 3 and the digit at place of * is greater than 1 by the digit at place of ⚫, then find the digit at place of * ?

(1) 1　　　　(2) 2　　　　(3) 6　　　　(4) 9

55. What is the sum of additive inverse of $(7a + 2b + c)$ and additive inverse of $(5a + 2b - 5c)$?

(1) $-4(3a + b - c)$　　　　(2) $-4(3a - b - c)$

(3) $4(3a - b - c)$　　　　(4) $4(3a + b - c)$

56. $\dfrac{\sqrt{1.96} + \sqrt{2.89} - \sqrt{2.25}}{\sqrt{0.00000256}} = ?$

(1) 10^3　　　　(2) 10^{-2}　　　　(3) 10^1　　　　(4) 10^2

57. Karan has same number of notes of Rs. 20 and Rs. 50. He has Rs. 4900 in total, then find the total number of notes he has?

(1) 70　　　　(2) 35　　　　(3) 105　　　　(4) 140

58. The area of a square is 5.29 sq. cm, then what is its perimeter?

(1) 8.2 cm　　　　(2) 9.2 sq.cm　　　　(3) 2.3 cm　　　　(4) 9.2 cm

59. A cylindrical tank of base radius 21cm contains water. In that water, a metal block of length 22cm, breadth 18 cm, height 7cm is dropped then what is increase in the level of water in tank?

(1) 2 cm　　　　(2) 3 cm　　　　(3) 3.5 cm　　　　(4) 2.5 cm

60. In a circle with centre 0, chord of a circle is 30cm long, its distance from the center is 8cm. Find the radius of the circle?

(1) 17 cm　　　　(2) 15 cm　　　　(3) 16 cm　　　　(4) 12 cm

SPACE FOR ROUGH WORK

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61. A hall has length 28 meter and breadth 10.5 meter For flooring this hall, square tiles are to be used of half meter side then how many tiles are required?

  (1) 1180   (2) 1150   (3) 1176   (4) 1126

62. Add the polynomials $5x^4 - 2x$ and $2x^3 - 7$.' What is the degree of the sum of these polynomials?

  (1) 7   (2) 4   (3) 12   (4) 5

63. $\dfrac{81^2 \times 27^2}{9^3 \times 3^5} = x^3$ then $x = ?$

  (1) 4   (2) 3   (3) 2   (4) 1

64. If the measures of two external angles of a triangle are 60° and 130° respectively, then which type of triangle is it?

  (1) Acute angled triangle   (2)   Obtuse angled triangle

  (3) Right angled triangle (4)   Equilateral triangle

65. Rohit made a profit of 6 percent when he sold a car which he bought for Rs. 5,00,000 How much total money did Rohit get after selling the car?

  (1) Rs. 5,20,000   (2) Rs. 5,10,000

  (3) Rs. 6,00,000   (4) Rs. 5,30,000

66. The length of perpendicular sides of a right angle triangle are 7cm and 24cm respectively, then find the radius of it's circum circle.

  (1) 12.5 cm   (2) 25 cm   (3) 12 cm   (4) 6.5 cm

67. There is decrease in sale of object by 10% due to increase in the cost of object by 10%, then what is the profit percent or loss percent in this transaction?

  (1) 1% loss   (2) 2% profit

  (3) 3% loss   (4) 1.75% profit

68. Yogesh deposited Rs. 32000 in a bank for two years on simple interest, After maturity he gets Rs. 38400, then what is the rate of interest?
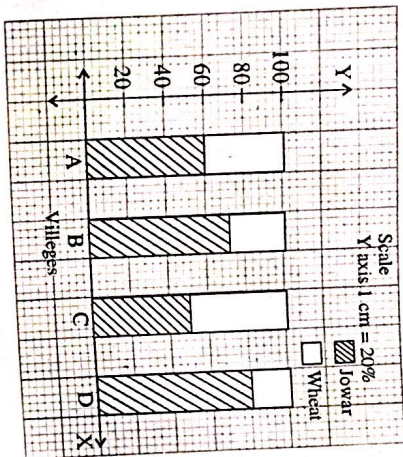
(1) 12 p.c.p.a

(2) 15 p.c.p.a

(3) 18 p.c.p.a

(4) 10 p.c.p.a

69. In the following frequency distribution, height of 20 students of a class is given. From the given data find the mean.

Height(cm)	160	161	162	163
Number of boys	4	6	5	5

(1) 160 cm

(2) 161.55 cm

(3) 162.5 cm

(4) 161 cm

Question 70 and 71– The percentage production of crops jowar and wheat in four villages is given in the following sub-divided bar graph. Observe the graph and solve the following questions.

70. The production of jowar in D village is more by how much than the village B?

(1) 10%

(2) 20%

(3) 60%

(4) 80%

71. Find the ratio of wheat production of village A and village C.

(1) 6 : 5

(2) 5 : 4

(3) 3 : 2

(4) 2 : 3

SPACE FOR ROUGH WORK

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72. Which term should be added to $100x^2 + \dfrac{y^2}{16}$ from the following to make it complete square? [choose two correct option]

(1) $+5xy$

(2) $-5xy$

(3) $\dfrac{25x}{4y}$

(4) $-\dfrac{25}{4}xy$

73. If 18 labours take 15 days to complete one task, then how many days will 6 labours need to complete the same task?

(1) 3 days

(2) 90 days

(3) 5 days

(4) 45 days

74. From the following, select the factors of polynomial $(2x - 3)^3 + 125$.

(1) $2\,(x + 1)\,(4x^2 - 22x + 49)$

(2) $(x + 1)\,(4x^2 - 22x + 49)$

(3) $2\,(x - 1)\,(4x^2 - 22x + 49)$

(4) $(x - 1)\,(4x^2 - 22x + 49)$

75. $\dfrac{0.036}{0.6} \times \dfrac{2.35}{0.05} \times \dfrac{1}{6} = ?$

(1) 0.547

(2) 5

(3) 0.47

(4) 5.47

SPACE FOR ROUGH WORK