

# **Sainik School (AISSEE)**

**2021**

Question Paper, Answer Key

**Exam Date: 07 Feb 2021**

**Class: 6th**

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**Section - A**

**Q1.** Whole numbers are closed under which operation?

**Ans.** Multiplication

**Q2.** The successor of 1 million is

**Ans.** 1000001

**Q3.** The points O, U, S, V, R, X, W, T, P, Q, X on the number line are equidistant. The fraction represent by length OP is

**Ans.**  $\frac{8}{5}$

**Q4.** The two consecutive integers, between which the fraction  $\frac{5}{7}$  lies, are

**Ans.** 0 and 1

**Q5.** Which of the following is the smallest fraction?

**Ans.**  $\frac{4}{5}$

**Q6.** The HCF and LCM of two numbers are 6 and 864 respectively. If one number is 96 and the other number is.

**Ans.** 54

**Q7.** The HCF of two numbers is 12 and their differences are 12. Which of the following can be the numbers?

**Ans.** 84, 96

**Q8.** Find the smallest number that is divisible by each one of 9, 12 and 15.

**Ans.** 180

**Q9.** A certain brand of soap-powder is sold at Rs.15 per packet. It costs Rs.144 a dozen. What is the profit in percent on 8 dozen packets?

**Ans.** 25

**Q10.** Find the greatest number that will divide 37, 56, 93 leaving remainder 1, 2 and 3 respectively.

**Q11.** If 10 men can do a piece of work in 4 days, how many men will be required to get the same work done in 5 days?

**Ans.** 8

**Q12.** 21 goats eat as much as 15 cows. How many goats eat as much as 35 cows?

**Ans.** 49

**Q13.** A mechanic earns Rs. 3600 on 9 cars. How much will he earn in 1 day, if in a day he receives 27 cars?

**Ans.** Rs. 108000

**Q14.** If  $x:y = 3:5$ , find the ratio of  $3x+4y : 8x+5y$ .

**Ans.** 29:49

**Q15.** find the value of  $m$ , if 3, 18,  $m$ , 42 are in proportion

**Ans.** 7

**Q16.** In an NCC camp, 1200 trainees are participating out of which 900 are selected for Republic Day Camp. What is the ratio between the number of selected and non-selected cadets?

**Ans.** 3:1

**Q17.** If a boy sells a book for Rs. 450, he makes a loss of 10%. To gain 10%, what should be the selling price?

**Ans.** Rs. 550

**Q18.** A man sells a speaker for Rs. 7500 at a profit of 20% and another speaker for Rs. 8100 at a loss of 10%. Find his total loss or profit.

**Ans.** Profit = Rs. 350

**Q19.** Simplify  $(8 + 4 - 2) \times (17 - 12) \times 10 - 89 =$

**Ans.** 411

**Q20.** Simplify  $0.05 + 1.5 \times 5 \div 10 \times 0.5 =$  \_\_\_\_\_

**Ans.** 0.425

**Q21.** Simplify  $7 + 5 - 2 \times (7 + 89) - 94 \div 2 + (33 \div 3 + 9 \times 2 - 7) \div 11 =$  \_\_\_\_\_.

**Ans.** -225

**Q22.** The average weight of 20 boys in a class is 160 kg and that of the remaining 5 boys is 50 kg. Find the average weight of all the boys in the class.

**Ans.** 138 kg

**Q23.** The average marks obtained by 7 students in a group is 226. If the marks obtained by six of them are 340, 180, 260, 56, 275 and 307 respectively. Find the marks obtained by the 7th student.

**Ans.** 164

**Q24.** A library has an average of 510 visitors on Sundays and 240 on other days. The average number of visitors in a month of 30 days starting with Sunday is

**Ans.** 285

**Q25.** A batsman makes a score of 87 runs in the 17th match and thus increases his average by 3. Find his average after the 17th match.

**Ans.** 39

**Q26.** Average of 1, 3, 5, 7, 9, 11, 12 is

**Ans.** 7

**Q27.** If  $x\%$  of  $y$  is 100 and  $y\%$  of  $z$  is 200, then find the relation between  $x$  and  $z$ .

**Ans.**  $z = x$

**Q28.** One-fourth of one-third of two-fifth of a number is 15. What will be 40% of that number?

**Ans.** 180

**Q29.** Find the length of a rectangular playground in cm whose area is 700 sq.m and breadth is 25 m.

**Ans.** 28

**Q30.** Reena took a loan of Rs. 1200 with simple interest for as many years as the rate of interest. If she paid Rs. 432 as interest at the end of the loan period, what was the rate of interest?

**Ans.** 6

**Q31.** Write the name of the angle formed when the clock time is 7:15 pm?

**Ans.** Obtuse angle

**Q32.** The table below shows the maximum temperature in New York city last year. Use this information in this table and answer the following -

What was the average maximum temperature (up to 2 decimal places) of three months May, July, and September last year in New York city?

Month	Jan	Mar	May	Jul	Sep	Nov
Maximum temperature, in $^{\circ}\text{C}$	3	9	21	29	24	11

**Ans.**  $24.66^{\circ}\text{C}$

**Q33.** In the morning the temperature was  $-10^{\circ}\text{C}$  and it decreased by 3 degrees by the evening. What was the temperature in the evening?

**Ans.**  $-13^{\circ}\text{C}$

**Q34.** A rectangular garden is 185 m long and 220 m wide. It has two roads in its center of uniform width of 4 m, one parallel to its length and the other parallel to its breadth. Find the cost of levelling the roads is Rs. 1.25 per sq m.

**Ans.** Rs. 2005

**Q35.** One decimeter is equal to

**Ans.**  $1 \times 10^{-1}$  m

**Q36.** In Roman numeration, if a symbol is repeated, its value is not multiplied as many times as it occurs.

**Ans.** False

**Q37.** The angle subtended by the diameter of a semicircle on any point on the circle is

**Ans.**  $90^\circ$

**Q38.** A big cube has each portion of 44 cm. Tiny cubes of 4 cm portions each are cut from that. Then how many tiny cubes will be formed that are surrounded by at least one cube?

**Ans.**

**Q39.** A rectangular tank 15 cm long, 12 cm wide, and 8 cm high was completely filled with the water. Find the volume of water in the tank.

**Ans.**  $1440\text{cm}^3$

**Q40.** Which of the following fractions are arranged in ascending order?

**Ans.**  $7/12 < 5/8 < 3/4 < 13/6$

**Q41.** What is the value of  $945.341 - 1042.792 + 875.435 + 31.025$ ?

**Ans.** 809.009

**Q42.** A man on tour travels first 160 km at 64 km/hr and the next 160 km at 80 km/hr/. The average speed of the first 320 km of the tour is

**Ans.** 71.11 km/hr

**Q43.** On dividing 2272 as well as 875 by a 3-digit number N, we get the same remainder. The sum of the digits of N is.

**Ans.** 10

**Q44.** It takes Julia  $1/2$  hr to wash, comb her hair and put on her clothes and  $1/4$  hr to have breakfast. How much time does it take Julia to be ready for school?

**Ans.**  $5/4$  hr

**Q45.** Which of the following numbers in Roman Numerals is incorrect?

**Ans.** LC

**Q46.** How many faces are there in cuboid?

**Ans.** 6

**Q47.** A flat surface which extends indefinitely in all directions is called a

**Ans.** Plane

**Q48.** The difference between two complementary angles is  $10^\circ$ . Calculate the value of both the angles.

**Ans.**  $40^\circ$ ,  $50^\circ$

**Q49.** The total weight of brinjal, lady finger, and onion is 48.057 kg. If brinjal and lady-finger weigh 5.35 kg and 24.52 kg respectively. Find the weight of the onion.

**Ans.** 18.187 kg

### **Section - B**

**Q51.** Which device is used to measure the speed of vehicles?

**Ans.** Speedometer

**Q52.** From which monument did India adopt its National Emblem?

**Ans.** Sarnath

**Q53.** In which of the following styles of dance is the story / theme always taken from Mahabharat and Ramayan?

**Ans.** Bharatanatyam

**Q54.** Arrange the months based on our National Calendar (Sakar Era) in correct serial order -  
-Chaitra, b-Vaishakha, c-Jyaishtha, d-Aashada:

**Ans.** abcd

**Q55.** Which of the following is a combat aircraft?

- (1) Tejas
- (2) Dhruv
- (3) Boeing C-17 Globemaster
- (4) Chetak

**Ans.** Tejas

**Q56.** Which of the following cups / trophies is associated with football?

**Ans.** Santosh Trophy

**Q57.** How do ants recognize ants from their group?

**Ans.** By smell

**Q58.** Which of the following is domesticated by poultry farms?

**Ans.** Hens

**Q59.** The \_\_\_\_\_ cover of the tongue and react to chemicals in food.

**Ans.** Taste Buds

**Q60.** What does freezing do when preserving foods?

- (1) Keeps the food product hard
- (2) Keeps the flavors of the food fresh
- (3) Stops the growth of microorganisms
- (4) None of the above

**Ans.** Stops the growth of microorganisms

**Q61.** Seeds of drumstick and maple are carried over long distances by wind because they possess

**Ans.** Winged seeds

**Q62.** \_\_\_\_\_ is a traditional rainwater harvesting technique of Rajasthan.

**Ans.** Taanka

**Q63.** Which of the following will dissolve in water?

**Ans.** Sugar

**Q64.** Which of the following is a communicable disease?

**Ans.** Chicken pox

**Q65.** To climb the mountains, we have to

**Ans.** Bend forward

**Q66.** Name an astronomical observatory built in the 18th century by Rajput King Sawai Jai Singh of Rajasthan.

**Ans.** Jantar Mantar

**Q67.** \_\_\_\_\_ includes internal rocks, minerals, etc

**Ans.** Geosphere

**Q68.** The remains of plants and animals that were buried millions of years ago are known as

**Ans.** fossil fuels

**Q69.** Rasgulla is a popular sweet of \_\_\_\_\_

**Ans.** West Bengal

**Q70.** Which of the following is a tribal community of India?

**Ans.** Bhil

**Q71.** Clouds are mostly made of

**Ans.** Water droplets

**Q72.** For which of the following works has Vasdev Mohi been awarded the 29th Saraswati Samman?

**Ans.** Chequebook

**Q73.** Who was the first Indian to be the President of the U.N. general assembly?

**Ans.** Smt. Vijaya Lakshmi Pandit

**Q74.** In which of the following parts of the human body are sweat glands absent?

**Ans.** Lips

**Q75.** What do we call the young one of a Kangaroo?

**Ans.** Joey