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PRINCE SAINIK SCHOOL

ADMISSION TEST - 2021

Date : 21 March, 2021 (Sunday)

Time : 10:00 AM to 12:00 Noon

1. $(-1)^{234} \times (-5)^{546} \times (-2)^{786}$ results in a
 (a) Negative integer (b) Positive integer
 (c) Zero (d) None of these

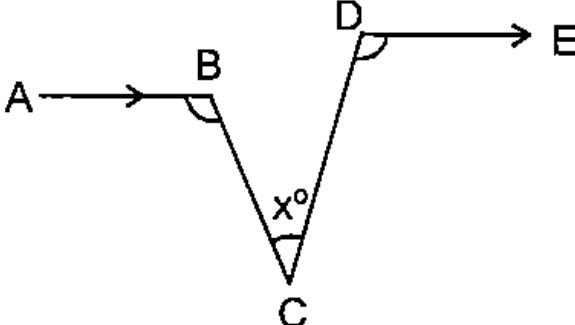
2. Which parts contain the fractions in ascending order?
 (a) $\frac{11}{14}, \frac{16}{19}, \frac{19}{21}$ (b) $\frac{16}{19}, \frac{11}{14}, \frac{19}{21}$
 (c) $\frac{11}{14}, \frac{19}{21}, \frac{16}{19}$ (d) $\frac{16}{19}, \frac{19}{21}, \frac{11}{14}$

3. Find the value of $4\frac{5}{6} - -2\frac{3}{8} + 3\frac{7}{12}$
 (a) $\frac{145}{24}$ (b) $\frac{145}{12}$
 (c) $\frac{92}{21}$ (d) $\frac{145}{4}$

4. If $1.5 x = 0.04 y$, then the value of $\left(\frac{y-x}{y+x}\right)$ is:
 (a) $\frac{730}{77}$ (b) $\frac{73}{77}$
 (c) $\frac{7.3}{77}$ (d) None of these

5. The complementary and supplementary angles of an angle are in the ratio $2 : 5$ respectively. Find the measure of that angle
 (a) 60° (b) 30°
 (c) 90° (d) 45°

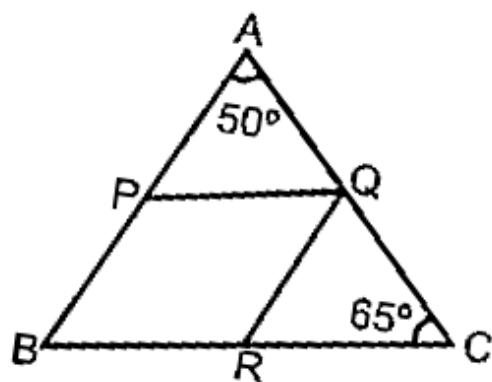
6. In the adjoining figure, $\angle ABC = 100^\circ$, $\angle EDC = 120^\circ$ and $AB \parallel DE$. Then, find $\angle BCD$.



(a) 40° (b) 100°
 (c) 75° (d) 60°

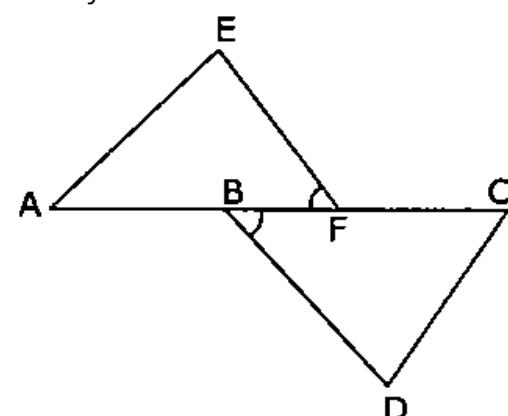
7. In a $\triangle ABC$, $\angle B - \angle C = 22^\circ$ and $\angle C - \angle A = 7^\circ$ Find $\angle A$ of the triangle.
 (a) 48° (b) 82°
 (c) 45° (d) 46°

8. In $\triangle ABC$, Side $AB \parallel QR$ and side $BC \parallel PQ$, $m\angle BAC = 50^\circ$, $m\angle ACB = 65^\circ$ Find $m\angle BPQ$.



(a) 155° (b) 65°
 (c) 115° (d) 95°

9. In the given figure it is given that $AB=CF$, $EF=BD$ and $\angle AFE = \angle DBC$. Then congruence of $\triangle AFE$ and $\triangle CBD$ by



(a) AAA congruence criterion
 (b) SSS congruence criterion
 (c) ASA congruence criterion
 (d) SAS congruence criterion

10. $\triangle ABC \cong \triangle EFG$, $AB=15$ cm, $BC=20$ cm, $AC=25$ cm and $FG=3x-7$, then value of x is given by
 (a) 7.3 cm (b) 9 cm
 (c) 10.6 cm (d) 20 cm

11. The expression $x^{a(b-c)} \cdot x^{b(c-a)} \cdot x^{c(a-b)}$ simplifies to:
 (a) -1 (b) 0
 (c) 1 (d) 2

12. $\left(\frac{1}{2}\right)^3 \times \left(\frac{-3}{5}\right)^3 \times \left(\frac{-4}{9}\right)^2$ is _____
 (a) $\frac{-2}{375}$ (b) $\frac{2}{375}$
 (c) $\frac{-6}{375}$ (d) $\frac{6}{375}$

13. The product of the reciprocal of $\frac{x+3}{x+2}$ and $\frac{x^2-4}{x^2-9}$ is
 (a) $\frac{1}{(x-3)(x-2)}$ (b) $\frac{x-2}{x-3}$
 (c) $\frac{x-3}{x-2}$ (d) $(x-3)(x-2)$

14. If $\frac{a}{b} + \frac{b}{a} = 4$, find the value of $\frac{a^2}{b^2} + \frac{b^2}{a^2}$
 (a) 16 (b) 18
 (c) 14 (d) 20

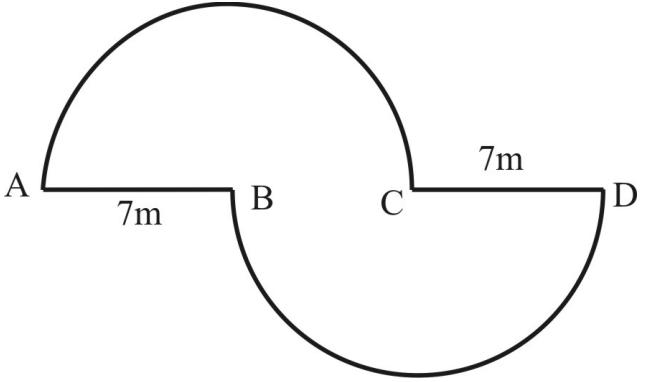
15. If $a + \frac{1}{a} = 2$, then $a - \frac{1}{a}$ will be:
 (a) 0 (b) 4
 (c) -2 (d) 2

16. Reduced to lowest terms, $\frac{a^2 - b^2}{ab} - \frac{ab - b^2}{ab - a^2}$ is equal to:
 (a) $\frac{a}{b}$ (b) $\frac{a^2 - 2b^2}{ab}$
 (c) a^2 (d) $a - 2b$

17. Devang earned scores of 97, 73, and 88 respectively in his three examinations. If he scored 80 in the fourth examination, then his average score will be
 (a) 81 (b) 84.5
 (c) 100 (d) 71

18. Which of the following has the same mean, median and mode?
 (a) 6, 2, 5, 4, 3, 4, 1 (b) 4, 2, 2, 1, 3, 2, 3
 (c) 2, 3, 7, 3, 8, 3, 2 (d) 4, 3, 4, 3, 4, 6, 4

19. The area of a square is 225 sqm. Then, the perimeter of the square is:
 (a) 50 m (b) 15 m
 (c) $15\sqrt{2}m$ (d) 60 m

20. If $AB = BC = CD$ then find the perimeter of adjoining figure.


(a) 58m (b) $\frac{44}{7}m$
 (c) 142 m (d) None of these

21. If $\frac{4}{x+1} + \frac{5}{x+3} = \frac{9}{x+2}$ then the value of x is:
 (a) -7 (b) 7/2
 (c) 7 (d) -14

22. If $2 + \frac{2x-3}{2x+3} = \frac{3x+4}{x+2}$ then the value of x is:
 (a) -3 (b) -2
 (c) 3 (d) -4

23. If $A : B = 3 : 4$, $B : C = 2 : 3$ then, $A : C =$
 (a) 1 : 2 (b) 5 : 3
 (c) 1 : 3 (d) 2 : 3

24. If $x : y = 5 : 2$, then $(8x + 9y) : (8x + 2y)$ is:
 (a) 22 : 29 (b) 26 : 61
 (c) 29 : 22 (d) 61 : 26

25. What is 20% of 50% of 60% of 200 ?
 (a) 12 (b) 18
 (c) 120 (d) 180

26. Price of shirt decreased from Rs. 80 to Rs. 60. The percentage of decreased price is:
 (a) 25% (b) 30%
 (c) 40% (d) 45%

27. A watch is sold for Rs. y at 10 % loss. Cost Price of the watch is:
 (a) $Rs. \frac{100 \times y}{90}$ (b) $Rs. \frac{90 \times y}{1000}$
 (c) $Rs. \frac{100 \times y}{100}$ (d) $Rs. \frac{110 \times y}{100}$

28. Kishore purchased a cycle for Rs. 1750 and sold it for Rs. 1925. His profit percent is:

(a) $9\frac{1}{10}$ (b) 10 (c) 25 (d) 110

29. Find the simple interest that Ram has to pay if he borrows Rs. 500 for a period of 5 years at the rate of 5% p.a.
 (a) Rs. 200 (b) Rs. 150 (c) Rs. 100 (d) Rs. 125

30. The rate at which a sum becomes four times of itself in 15 years at S.I., will be:
 (a) 15% (b) $17\frac{1}{2}\%$ (c) 20% (d) 25%

31. The CAT drank the MILK from the SAUCER which kind of nouns are the words in capitals?
 (a) Abstract, Common, Common.
 (b) Proper, Common, Common
 (c) Common, Uncountable, Common
 (d) Common, Compound, Common

32. The feminine gender of horse is-
 (a) Colt (b) Mare
 (c) Filly (d) Stag

33. The Plural form of mouse is-
 (a) Mice (b) Mouses
 (c) Mices (d) Mouse

34. She wants to exchange **this** for **that** and **these** for **those**. Pronoun given in bold is of what kind?
 (a) Demonstrative (b) Indefinite
 (c) Reciprocal (d) Interrogative

35. Rahul is not as as suman.
 (a) Clever (b) Cleverer
 (c) More clever (d) Cleverest

36. How oranges did you put in the box?
 (a) Much (b) Little
 (c) Few (d) Many

37. It rained heavily and spoiled my dress entirely.
 (Choose the verb that heavily. qualifies.)
 (a) Rained (b) Spoiled
 (c) Dress (d) Entirely

38. The show will begin soon
 (a) Adverb of frequency (b) Adverb of time
 (c) Adverb of place (d) Adverb of quantity

39. The small girl eagerly licked her ice-cream cone
 (a) Adverb of quantity (b) Adverb of number
 (c) Adverb of manner (d) Adverb of time

40. Did you that movie? (use the correct verb)
 (a) Watched (b) Watches
 (c) Watchs (d) Watch

41. She lived here all her life.
 (a) Is (b) Has
 (c) Have (d) Are

42. Some of the cake left on the table
 (Subject- verb- Agreement)

(a) Are (b) Was (c) Will (d) Have

43. Each of the boys awarded.
(a) Was (b) Were (c) Are (d) Being

44. I watch the movie last night as my TV was broken.
(a) Could (b) Can't (c) Couldn't (d) Was not

45. It be very expensive, but it's much better than the others.
(a) May (b) Will (c) Shall (d) Would

46. What are the main ingredients this casserole? (Choose appropriate prepositions)
(a) About (b) To (c) Of (d) At

47. She was sitting her two sisters.
(a) Between (b) Among (c) In (d) On

48. Either you your sister had done this. (Choose appropriate conjunction)
(a) As (b) Or (c) And (d) But

49. She was sad she lost her job.
(a) Because (b) Or (c) And (d) While

50. Go clean your room (Identify the type of sentence)
(a) Simple (b) Compound (c) Complex (d) Compound-Complex

51. SI unit of acceleration is-
(a) m/s^2 (b) m/s (c) ms (d) ms^2

52. If $2C$ charge is transferred in 4 Sec. through a conductor. Then flowing current is-
(a) $2A$ (b) $3A$ (c) $0.5A$ (d) $8A$

53. If an object of mass $5kg$ is moving with an acceleration of $3m/s^2$. Then the total force on the object is-
(a) 10 N (b) $5/3\text{ N}$ (c) 15 N (d) 20 N

54. Light always travels in-
(a) Straight line (b) Circular path (c) Zig-Zag Path (d) Random motion.

55. Light is a form of-
(a) Time (b) Force (c) Energy (d) Velocity

56. Which is a method to prevent rust?
(a) Crystallization (b) Sedimentation (c) Galvanisation (d) None of these

57. Out of these gases which one is used in fire extinguishers-
(a) CO_2 (b) SO_2 (c) NO_2 (d) H_2S

58. Which of the following is not a type of silk?
(a) Mulberry silk (b) Tassar silk (c) Mooga silk (d) Moth silk

59. What will happen if carbon dioxide is passed through lime water?
(a) Calcium carbonate is formed (b) The lime water turns milky (c) Both of these (d) None of these

60. Silk is derived from-
(a) Cocoon (b) Pupa (c) Egg (d) Moth

61. In the absence of which of the following will photosynthesis not occurs in leaves?
(a) Guard cell (b) Chlorophyll (c) Vacuole (d) Ribosome

62. The coldest region on earth is the.
 (a) Polar region (b) Tropical region
 (c) Temperate region (d) Coastal region

63. The ovaries of different flower may contain.
 (a) Only one ovule (b) Many ovule
 (c) One to Many ovule (d) Only two ovule

64. Which of the following is not prepared from the wood obtained from forest?
 (a) Paper (b) Thermocol
 (c) Match sticks (d) Plywood

65. On which day world water day is celebrated?
 (a) 14 November (b) 2 October
 (c) 5 September (d) 22 March

66. According to the 2011 Census data women form of the population.
 (a) 50.7 (b) 45.5
 (c) 48.5 (d) 60.5

67. Beti Bachao Beti Padhao (Save girl child and teach girl child) Programme launched in
 (a) 2013 (b) 2014
 (c) 2015 (d) 2016

68. A Situation when less then half the number in a group supports a decision or an idea is called
 (a) Majority (b) Minority
 (c) Constituency (d) Group

69. Thinking of one self and other persons as worthy of respect
 (a) Decorum (b) Respect
 (c) Honour (d) Dignity

70. Jootthen is
 (a) Comics book (b) Biograpy
 (c) Auto biography (d) None of above

71. A person who makes maps
 (a) Map writer (b) Cardiographer
 (c) Carto grapher (d) Geographer

72. A place where documents and manuscripts are stored
 (a) Office (b) Museum
 (c) Archive (d) All the above

73. Dantidurga over threw
 (a) Parthihara king (b) Chalukys King
 (c) Rashtrakuta King (d) Matsye king

74. The Mughals were proud of their
 (a) Genghis Khan (b) Mongol
 (c) Timure (d) All the above

75. had writeen Akbar nama
 (a) Mirza hakim (b) Abul Fazal
 (c) Birbal (d) None of the above

76. The Tajmahal in Agra Completed in
 (a) 1607 (b) 1642
 (c) 1648 (d) 1650

77. Guru Nanak was born at
 (a) Lahore (b) Multan
 (c) Talwandi (d) Amritsar

78. Founder of Hyderabad was.
 (a) Nizam-ul-Mulk Asaf Jah
 (b) Farrukh Siyar
 (c) Murshid Quli Khan
 (d) Shah Alam

79. World Water day is celebrated on
 (a) 10 March (b) 23 March
 (c) 21 March (d) 22 March

80. The place in the crust where the movement starts is called.....
 (a) The epicentre (b) The focus
 (c) Lithosphere place (d) All the above

(a) SUCTION (b) COINS
(c) CAUTION (d) NOTION

95. If 'MEAT' is written as 'TEAM', then 'BALE' is written as
(a) ELAB (b) EABL
(c) EBLA (d) EALB

96. If 'REASON' is coded as 5 and 'BELIEVED' as 7, what is the code number for 'GOVERNMENT'?
(a) 10 (b) 6
(c) 9 (d) 8

97. If 'MILK' is called 'CURD', 'CURD' is called 'SALT'; 'SALT' is called 'SUGAR', 'SUGAR' is called 'WATER', then what is used to mean tea sweet?
(a) SALT (b) CURD
(c) SUGAR (d) WATER

98. If each direction is rotated by 315° clockwise, then which direction will north be pointing?
(a) North-West (b) North-East
(c) North (d) South-West

99. If North-West become North, North-East become East and so on, What will South become?
(a) North-East (b) South-East
(c) South (d) South-West

100. A clock is so placed that at 12:00 noon its minute hand points towards South-West. In Which direction does its Hour hand point at 1 : 30 pm?
(a) North (b) South
(c) East (d) West



Prince Sainik School Admission Test

Final Answer Key

Class - VIII

Date : 21-03-2021

| Que | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |
|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|
| Ans | 2 | 1 | 1 | 2 | 2 | 1 | 1 | 3 | 4 | 2 | 3 | 1 | 3 | 3 | 1 | 1 | 2 | 4 | 4 | 1 | 3 | 1 | 1 | 3 | 1 |
| Que | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 |
| Ans | 1 | 1 | 2 | 4 | 3 | 3 | 2 | 1 | 1 | 1 | 4 | 1 | 2 | 3 | 4 | 2 | 2 | 1 | 3 | 1 | 3 | 1 | 2 | 1 | 1 |
| Que | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 |
| Ans | 1 | 3 | 3 | 1 | 3 | 3 | 1 | 4 | 3 | 1 | 2 | 1 | 3 | 2 | 4 | 2 | 3 | 2 | 4 | 2 | 2 | 3 | 2 | 4 | 2 |
| Que | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
| Ans | 3 | 3 | 1 | 4 | 1 | 1 | 3 | 3 | 4 | 2 | 2 | 2 | 1 | 1 | 2 | 2 | 3 | 1 | 3 | 4 | 3 | 4 | 1 | 4 | 4 |