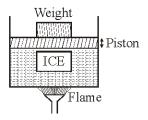


- 1. Convert 615 mg to grams.
  - (1) 0.00615 g
  - (2) 0.615 g
  - (3) 6.15 g
  - (4) 61.5 g
- 2. Which does not represent technology?
  - (1) Calculator
  - (2) Computer program
  - (3) Granite rock
  - (4) Compact discs
- 3. Gold has a density of 19.3 g/cm Silver has a density of 10.5 g/cm Which is a true statement?
  - (1) A 2 cm block of gold has less mass than a 2 cm block of silver.
  - (2) 50 g of gold has a lower volume than 50 g of silver.
  - (3) The weight of a 10.5 g block of gold equals the weight of a 19.3 g block of silver.
  - (4) The vol of a 15 g block of gold is greater than the volume of a 35 a block of silver.
- 4. Nearly all the clock make use of
  - (1) Straight line motion
  - (2) Periodic motion
  - (3) Random motion
  - (4) Circular motion
- Which of the following is not an example of regular motion
  - (1) A child on swing
  - (2) An object moving in a circle
  - (3) A mosquito flying about in a room
  - (4) A swinging pendulum
- 6. Electric charge can flow freely through
  - (1) Insulator
  - (2) Conductor
  - (3) Both conductor and insulator
  - (4) Neither conductor nor insulator
- 7. An electric fuse is a
  - (1) Safety device
  - (2) An electrical appliance
  - (3) Based on magnetic effects of current
  - (4) None of these
- Heat from sun reaches to earth by
  - (1) Radiation
  - (2) Conduction
  - (3) Convection
  - (4) All of the above

 A mixture of ice and water is contained in a piston cylinder arrangement as shown in figure. Flame is applied to the base of cylinder and the piston is allowed to move as the ice melts. Then piston will move



- (1) upward
- (2) downward
- (3) will not move
- (4) can't say
- 10. A convex lens
  - (1) is thicker at the edge than at the middle
  - (2) has uniform thickness all through
  - (3) is thicker at the middle than at the edges
  - (4) is called a diverging lens
- 11. What is an object that reflects some light and transmits some light called?
  - (1) Coloured
  - (2) Opaque
  - (3) Diffuse
  - (4) Translucent
- 12. Following are the precautions one must take in the case a storm is accompanied by lightning. Which one of the following statements is not correct?
  - (1) Do not take shelter under a tall tree
  - (2) Do not take shelter inside a closed car
  - (3) Do not take shelter under an umbrella
  - (4) Do not take shelter under an open garage
- 13. During the formation of rain, when water vapours change back to liquid in the form of rain drops, \_\_\_\_
  - (1) Heat is absorbed
  - (2) Heat is released
  - (3) Heat is first absorbed, and then released
  - (4) There is no exchange of heat
- 14. The process of removing hair from the body of a sheep is called
  - (1) Scouring
- (2) Sorting
- (3) Shearing
- (4) Combing
- 15. After scouring the next process is
  - (1) Shearing
- (2) Sorting
- (3) Spinning
- (4) Combing

## Sample Paper: Gurukripa Scholarship Cum Admission Test - Class VII

16.	The fleece of sheep is combed to remove the		27.	Root hairs are most important to a plant because they
	(1) Dust	(2) Dirt		<u> </u>
	(3) Burrs	(4) Grease		(1) Anchor a plant to the soil
17.	. Which of the following is not an animal fibre?			(2) Provide a habitat for N <sub>2</sub> fixing bacteria
	(1) Polyester	(2) Wool		(3) Increase the surface area for absorption
	(3) Silk	(4) Pashmina		(4) Contain xylem tissue.
18.	Bases are generally	on touching	28.	Which of the following is classified correctly?
	(1) Hot	(2) Cold		(1) Banana : Fibrous root : Reticulate venation
	(3) Soapy	(4) Rough		(2) Banyan: Tap root: Parallel venation
19.	Acids turn red litmus to			(3) Rose : Tap root : Reticulate venation
	(1) Green	(2) Yellow		(4) Maize: Fibrous root: Reticulate venation
	(3) Blue	(4) No change	29.	Teeth involved in cutting of food material
20.	If the given solution does not change the colour of litmus			(1) Incisor (2) Canine
	paper, it is a/an			(3) Molar (4) Premolar
	(1) Acid	(2) Base	30.	Chewing is an example of
	(3) Neutral	(4) None of these		(1) Chemical Digestion
21.	. Sun rises in the east and sets in the west, this repeated			(2) Mechanical Digestion
	change is called -			(3) Involuntary Action
	(1) irreversible change	(2) periodic change		(4) Hydrolysis
	(3) physical change	(4) chemical change	31.	Which one of the following is not a part of a pistil?
22.	When food eaten by us is d	igested it undergoes	0	(1) Filament (2) Ovary
	change.			(3) Style (4) Stigma
	(1) periodic	(2) reversible	32.	Pollination is the movement of pollen grains from
	(3) irreversible	(4) physical	J	(1) anther to ovary (2) anther to egg
23.	Melting of wax is a	change, while burning of		(3) anther to stigma (4) none of these
	candle ischange.		33	In plants, gas exchange takes place through
	(1) irreversible, reversible		55.	(1) wood (2) stomata
	(2) reversible, irreversible			(3) root (4) fruit
	(3) physical, reversible (4) chemical, irreversible		34	Root hairs are most important to a plant because they
			J-1.	(1) Anchor a plant to the soil
24.	<ul><li>4. Non-renewable resources</li><li>(1) can never be replaced once they get used up</li><li>(2) can be replaced but the time of replacement varies from a few hundred to millions of years</li></ul>			(2) Provide a habitat for N <sub>2</sub> fixing bacteria
				(3) Increase the surface area for absorption
				(4) Contain xylem tissue.
			35	Ecosystem comprises both abiotic and biotic components.
	(3) can be replaced in 50 -100 years.		55.	Biotic component of an ecosystem consists of
	(4) can be replaced in 100	-		(1) Producers (2) Consumers
25.	Which of these methods do	es not result in conservation of		(3) Decomposers (4) All the above
	water?		36	Soil profile and soil structure both are affected by
	(1) Using drip irrigation.		50.	(1) temperature (2) light
	(2) Recycling of water.			(3) humidity (4) all
	(3) Cutting vegetation so that less water is lost by transpiration,		27	Feather of birds protect their body from
			ارد	
	(4) Planting more trees.			(1) heat (2) air
26.	The water table goes down due to		20	(3) cold (4) predators
	(1) increase in population (2) increase in agriculture		JÖ.	Discharge of wastewater generated from manufacturing
				plants/industries is -
	(3) increase in industrializa	ntion		(1) sewage (2) mining (3) industrial offluent (4) None of these
	(4) All of the above			(3) industrial effluent (4) None of these

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- - (1) permanent teeth
  - (2) milk teeth
  - (3) starting teeth
  - (4) all of these
- 40. The teeth of the second set that replace the milk teeth are known as
  - (1) permanent teeth
  - (2) temporary teeth
  - (3) milk teeth
  - (4) hard teeth
- 41.  $30 \times (-23) + 30 \times 14 = ?$ 
  - (1) 270
  - (2)270
  - (3)1110
  - (4) 1110
- 42. By how much does -3 exceed -5?
  - (1) 2

(2)2

(3)8

- (4) 8
- 43. For integers:
  - (1) Addition is associative
  - (2) Addition is commutative
  - (3) Integer "0" is the identity under addition
  - (4) All of the above
- 44. Arrange the following fractions in ascending order 3 4 7 1

$$\overline{7}, \overline{5}, \overline{9}, \overline{2}$$
.

- (1)  $\frac{4}{5}$ ,  $\frac{7}{9}$ ,  $\frac{3}{7}$ ,  $\frac{1}{2}$ (2)  $\frac{3}{7}$ ,  $\frac{1}{2}$ ,  $\frac{7}{9}$ ,  $\frac{4}{5}$ (3)  $\frac{4}{5}$ ,  $\frac{7}{9}$ ,  $\frac{1}{2}$ ,  $\frac{3}{7}$ (4)  $\frac{1}{2}$ ,  $\frac{3}{7}$ ,  $\frac{7}{9}$ ,  $\frac{4}{5}$

- 45. Find the value.  $4\frac{5}{6} 2\frac{3}{8} + 3\frac{7}{12}$ 
  - (1)  $\frac{145}{24}$
- (3)  $\frac{92}{21}$
- $(4)\frac{145}{4}$
- 46. Convert 0.45 & 0.0075 decimal numbers into the form p/ q. They are respectively:
  - (1)  $\frac{9}{20}$ ,  $\frac{3}{400}$
- (2)  $\frac{3}{400}$ ,  $\frac{3}{20}$

39. The teeth of the first set that grew during infancy are called 47. Find the mean and median respectively in this group of test results.

- (1)49,47
- (2) 46.87, 49
- (3) 48.69,43
- (4) 48.77,49
- 48. The mean of three numbers is 40. All the three numbers are different natural numbers. If lowest is 19. What could be highest possible number of remaining two numbers?
  - (1)81
  - (2)40
  - (3)100
  - (4)71
- 49. Which of the following statements is INCORRECT?
  - (1) Mean, Median and Mode may be same for some data.
  - (2) The probability of getting an ace out of a deck of cards is less than 1.
  - (3) Mean of the data is always from the given data.
  - (4) Median of the data may or may not be from the given
- 50. If two supplementary angles differ by 44°, then one of the two angles is
  - $(1) 102^{\circ}$
- $(2)65^{\circ}$
- (3) 112°
- (4) 72°
- 51. A number has two digits whose sum is 9. If 27 is added to the number, its digit get interchanged. Find the number
  - (1)34
  - (2)26
  - (3)36
  - (4) None of these
- 52. The numerator of a fraction is 4 less than the denominator. If 1 is added to both its numerator and denominator, it

becomes  $\frac{1}{2}$ . Find the fraction.

- 53. An angle whose measure is more than 90° but less than 180° is called:
  - (1) Acute angle
  - (2) Obtuse angle
  - (3) Reflex angle
  - (4) Straight angle

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- 54. The sum of all the angles at a point is always:
  - $(1)180^{\circ}$
- $(2)360^{\circ}$

 $(3)90^{\circ}$ 

- $(4)270^{\circ}$
- 55. How many degrees are there in two right angles?
  - $(1)270^{\circ}$
- $(2)30^{\circ}$

 $(3)90^{\circ}$ 

- (4) 1800
- 56. If in  $\triangle ABC$ , CA = AB, then the given triangle is:
  - (1) Right-angled Triangle
  - (2) Isosceles Triangle
  - (3) Scalene Triangle
  - (4) Equailateral Triangle
- 57. If in  $\triangle PQR$ ,  $\angle P = 24^{\circ}$  and  $\angle R = 66^{\circ}$ , then  $\triangle PQR$  is:
  - (1) A Right-angled Triangle
  - (2) An Equilateral Triangle
  - (3) An Acute-angled Triangle
  - (4) An Obtuse-angled Triangle
- 58. Which is the largest side of a right angled triangle?
  - (1) Median
  - (2) Hypotenuse
  - (3) Arm
  - (4) Altitude
- 59. If  $\triangle ABC \cong \triangle PQR$ , then  $\angle B$  and PQ are respectively equal to
  - (1)  $\angle P$  and AC
- (2)  $\angle R$  and BC
- (3)  $\angle R$  and AC
- (4)  $\angle Q$  and AB
- 60. If three sides of a triangle are equal to the three sides of another triangle, then the two triangles are congruent by which congruence criteria?
  - (1) SAS
  - (2) SSS
  - (3) RHS
  - (4) ASA
- 61. If the hypotenuse and a side of a right-angled triangle are equal to the hypotenuse and a side of another right-angled triangle, then by which congruency criteria the two triangles are congruent?
  - (1) ASA property
  - (2) SSS property
  - (3) SAS property
  - (4) RHS property
- 62. Mohit spends Rs. 7x 4 for a shirt and Rs. 2x + 8 for a pair of trousers. If he gives the shopkeeper a 1000 rupee note, how much will he get back?
  - (1) 1012 9x
  - (2)996 9x
  - (3)992 8x
  - (4)996 7x

- 63. By selling a watch for Rs. 1215, Javed lost 15%. At what price should he sell to make profit of 10%?
  - (1) Rs. 1500
  - (2) Rs. 1482
  - (3) Rs. 1550
  - (4) Rs. 1650
- 64. A businessman borrowed some money at 1% per month. After some time, he settled the debt by paying Rs. 14,750. If the total interest was Rs. 2950. Find the time.
  - (1) 2 years 1 month
  - (2) 3 years
  - (3)  $2\frac{1}{2}$  years
  - (4) 1 year 8 months
- 65. Which of the following sum is in the simplest form?
  - (1)  $\frac{4}{9} + \frac{-5}{9}$
- $(2) \frac{-5}{12} + \frac{11}{-12}$
- $(3) \frac{-2}{5} + \frac{13}{20}$
- (4)  $\frac{-7}{8} + \frac{1}{12} + \frac{2}{3}$
- 66. A car is moving at an average speed of  $3\frac{1}{9}$  km/hr. How

much distance will it cover in  $5\frac{1}{7}$  hours?

- (1) 15 km
- (2) 16 km
- (3) 17 km
- (4) 18 km
- 67. It takes 12  $\frac{1}{3}$  m of cloth to make a pattern. How many pattern can Latika make from a piece of cloth  $\frac{49}{3}$  m long?
  - (1)4
  - (2) 5
  - (3)3
  - (4)6
- 68. In  $\triangle ABC$ , if  $\angle A = 65^{\circ}$  and  $\angle C = 85^{\circ}$  then  $\angle B = ?$ 
  - $(1)25^{\circ}$
  - $(2)30^{\circ}$
  - $(3) 35^{\circ}$
  - $(4)40^{\circ}$
- 69. The sum of all angles of a triangle is -
  - $(1)90^{\circ}$
  - $(2) 100^{\circ}$
  - $(3)150^{\circ}$
  - $(4)180^{\circ}$



- 70. The sum of all angles of a quadrilateral is-
  - $(1)180^{\circ}$
  - $(2)270^{\circ}$
  - $(3)360^{\circ}$
  - $(4)480^{\circ}$
- 71. If the perimeter of a rectangle is 1024 m and its length is 250 m, then its breadth is:
  - (1) 40.96 m
  - (2) 262 m
  - (3) 774 m
  - (4) 256000 m
- 72. If the side of a square is 22.5 cm then its perimeter is?
  - (1) 0.90 m
  - (2) 5.625 m
  - (3) 90 m
  - (4) 506.25 m
- 73. If the side length of regular octagon is 14.5 m, then its 81. 'Rajasthan' is related to 'Japiur' in the same way as perimeter is:
  - (1) 1.8125 m
  - (2) 22.5 m
  - (3) 116 m
  - (4) 130.5 m
- 74. In a school,  $8a^2 + 4a + 9$  students were enrolled.  $2a^2 9a$ + 2 students were boys. How many girls were enrolled?
  - $(1) 6a^2 13a + 7$
  - $(2) 4a^2 + 13a + 7$
  - $(3) 6a^2 + 13a + 7$
  - $(4) 4a^2 13a + 7$
- 75. Simplify, the expression by removing brackets.

$$a-2b-[4a-6b-\{3a-c+(5a-2b-\overline{3a-c+2b})\}]$$

- (1) 5a + b
- (2) 4a c
- (3) 3a + b + c
- (4) 2a
- 76. Find the value of  $4xy(x-y)-6x^2(y-y^2)-3y^2(2x^2-x)+$ 2xy(x-y) for x = 5 and y = 13.
  - (1) 1955
  - (2)2535
  - (3) 2535
  - (4) 1955
- 77. By what number should we multiply  $4^{-3}$  so that the product may be equal to 64?
  - (1)4<sup>5</sup>
  - $(2) 2^{12}$
  - $(3)2^{6}$
  - $(4)2^6$

- 78. If  $3^x = 500$ , then the value of  $3^{x-2}$  is

- 79. Which of the following letters does not have any line symmerty?
  - (1)H

(2) V

(3)Z

- (4)I
- 80. The net of a solid consists of three rectangles and two triangles. This may be the net of a:
  - (1) Cuboid
  - (2) Pyramid
  - (3) Triangular Prism
  - (4) None of these
- 'Maharashtra' is related to -
  - (1) Goa
  - (2) Delhi
  - (3) Mumbai
  - (4) Jodhpur
- 82. 'Metal' is related to 'Conduction' in the same way as 'plastic' is related to -
  - (1) Ground oil chemistry
  - (2) Industry
  - (3) Inflammability
  - (4) Insulation
- 83. Wax is related to Grease in the same way as Milk is related to -
  - (1) Drink
  - (2) Ghee
  - (3) Protein
  - (4) Curd
- 84. In the following series, how many times the sum of two consecutive numbers results an even number -
  - 12346342593674123676543
  - (1)3

(2)4

- (3)5
- (4) None of these
- 85. In the following number series, how many 8's are there which are immediately preceded by a number which does not divide it but followed by a number which divides it -
  - 28283858853282384715838286
  - (1)1

(2)2

(3)3

(4)4



- 86. 'Smoke' is related to 'Pollution' in the same way as 'War' is 92. (4, 8, 4, 1) related to -
  - (1) Vicotry
- (2) Treaty
- (3) Defeat
- (4) Destruction
- 87. The following questions are based on the arrangement of alphabets in the form of a pyramid. In each question there is some relation-ship between the two sets of letters on the left of the (::) The same relationship exists between the two terms on the right of which one is missing.

Find the missing one from the given alternatives.

B C D

E F G H I

J K L M N O P

- O R S T U V W X Y
- (?): KRSL:: PYXO: OXWN
- (1) RSLK
- (2) JQRK
- (3) JKRQ
- (4) QRKJ
- 88. Cat is related Kitten in the same way as Woman is related to -
  - (1) Puppy
  - (2) Colt
  - (3) Calf
  - (4) Baby
- 89. Much is related to many in the same way as Measure is related to -
  - (1) Count
  - (2) Measures
  - (3) Calculate
  - (4) Weight
- 90. 'Ophthalmia' is related to 'Eye' in the same way as 'Rickets' is related to -
  - (1) Kidney
  - (2) Nose
  - (3) Bone
  - (4) Heart

Direction (91 to 95): Which one set is most like the given set

- 91. (8, 18, 37)
  - (1)(4, 9, 20)
  - (2)(16,33,67)
  - (3) (13, 30, 67)
  - (4)(5, 12, 25)

- - $(1)(6, 12, 6, \frac{3}{2})$
  - (2)(5, 10, 5, 2)
  - $(3)(2,4,2,\frac{1}{4})$
  - $(4)(8, 12, 6, \frac{3}{2})$
- 93. (48, 72, 108)
  - (1) 64, 96, 144
  - (2)(24,36,72)
  - (3) (84, 126, 188)
  - (4)(36, 18, 9)
- 94. (414, 207, 69)
  - (1) (522, 261, 87)
  - (2)(72,24,12)
  - (3) (728, 363, 51)
  - (4) (48, 24, 12)
- 95. (5, 12, 26)
  - (1) (32, 66, 132)
  - (2)(13, 28, 56)
  - (3)(11,24,50)
  - (4) 33, 64, 130)

Direction (96: 100): In each of the following questions, select the alternatives that will come in place of questionmark (?)

- 96. ACFJ: ZXUQ:: EGIN:?
  - (1) VUSQ
  - (2) UTRP
  - (3) VRPM
  - (4) VTRM
- 97. BCFG: HILM:: NORQ:?
  - (1) TXWU
- (2) TXUW
- (3) TUXW
- (4) TVWX
- 98. AZBY: CXDW:: EVFU:?
  - (1) GTHS
- (2) GHTS
- (3) GSTH
- (4) TGSH
- 99. Computer: fqprxvht:: Language:?
  - (1) oxpixdig
- (2) ocqicyig
- (3) ocquixcjg
- (4) ocqixcig
- 100. Corden: zrogbq::?: Pxivro
  - (1) mulmul
- (2) sulsul
- (3) munmum
- (4) srspql