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TALENT SEEK - 2017

STD: VI

MARKS: 300

Name : _____ **Father's Name** : _____

School : _____ **Ph. No** : _____

E-Mail ID : _____

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INSTRUCTIONS:

1. There are **100 questions** divided into 4 sections (Mathematics, Science, English & Reasoning).
2. Each question carries **3 marks**.
3. **1 mark** will be deducted for wrong answer.
4. There is **no mark** for questions which are not attempted.
5. Do not use calculator, mathematical & physical table.
6. Time duration is **2 hours**.

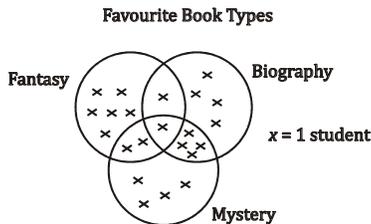
MATHEMATICS

1. What is the value of given expression?

$$3 \div 3 \times 3(4+3)$$

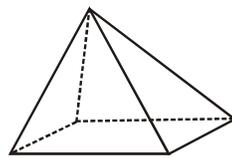
- (a) 21 (b) $\frac{1}{21}$ (c) 10 (d) 7

2. According to the diagram, how many students have more than one favourite type of book?



- (a) 3 (b) 5
 (c) 7 (d) 8
3. Mohit is selling candy bars. He has chocolate bars, nut bars and mint bars. If a customer but two bars, and the bars are not of same type, how many different combinations are possible?

- (a) 3 (b) 6
 (c) 9 (d) 12
4. How many edges does the following figure have?



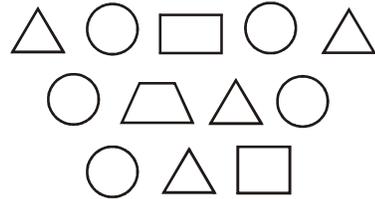
- (a) 12 (b) 8
 (c) 6 (d) 4
5. If a and b are two whole numbers, then under what condition is commutative law applicable to subtraction?

- (a) $a = b$ (b) $a \neq b$
 (c) $a > b$ (d) $a < b$

6. Which of the following statement is true?

- (a) A parallelogram in which two adjacent angles are equal is a rectangle
 (b) A quadrilateral in which at least one pair of opposite sides is equal is called a parallelogram
 (c) Every rhombus is also a square
 (d) Opposite sides are parallel in a trapezium

7. What percent of these shapes are quadrilaterals?



- (a) 0.25 % (b) 3 %
 (c) 12 % (d) 25 %

8. A vessel has 5 litre 120 millilitre of mango shake. How many glasses each of 40 ml capacity can be filled with it?

- (a) 122 (b) 130
 (c) 118 (d) 128

9. **Statement 1:** All rectangles are parallelogram.

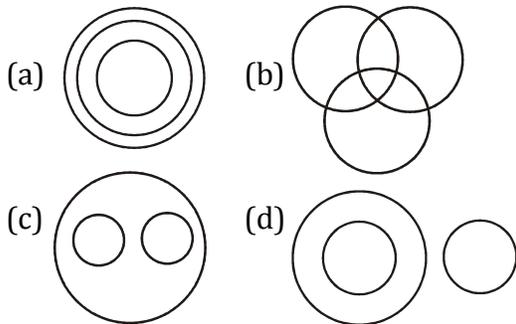
Statement 2: All parallelogram are rectangle.

Which of the following is true?

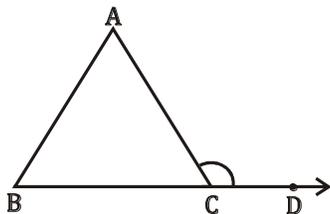
- (a) None of these
 (b) Statements (1) & (2)
 (c) Only statement (1)
 (d) Only statement (2)

10. The number of hours left in the day are double of the number of hours already passed. How many hours have already passed in the day?
 (a) 6 hours (b) 10 hours
 (c) 8 hours (d) 12 hours
11. Take one hundredth's three times from 1 and you are left with _____
 (a) 0.01 (b) 0.03
 (c) 0.97 (d) None of these
12. If the side of cube is halved, it's volume is reduced by _____ times.
 (a) $\frac{1}{4}$ (b) $\frac{1}{2}$
 (c) $\frac{1}{8}$ (d) None of these

13. Which of the following Venn diagram represents "Boy, Student, Player"?

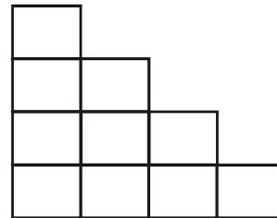


14. In the adjoining figure, find $\angle ACD$, if $AB = BC = CA$.



- (a) 90° (b) 150°
 (c) 120° (d) 180°

15. What should be the unit digit of 902081 _____ so that it is divisible by 11?
 (a) 1 (b) 3
 (c) 4 (d) 9
16. The given figure is made up of 10 squares of the same size. The area of the figure is 40 cm^2 , find the perimeter of figure.



- (a) 32 cm (b) 28 cm
 (c) 24 cm (d) 36 cm
17. 15 men can finish a piece of work in 40 days. The number of days in which the same work can be done by 20 men is _____.
 (a) 20 (b) 30
 (c) 48 (d) 15
18. Arya travelled 5 km by bus, 8 km 165 m by car and the rest 480 metre she walked. How much distance did she travel in all?
 (a) 16.397 km (b) 16.697 km
 (c) 13.976 km (d) 13.645 km
19. The ratio of story books in a library to other books is 8:7. The total number of story books is 800. The total number of books in library is _____.
 (a) 350 (b) 450
 (c) 1200 (d) 1500

20. In a class room, there are $3x$ rows of benches. If each row has $4xy$ benches and each bench can accommodate x students, determine the number of students in the room, if it is full upto its capacity.
- (a) $6x^3y$ (b) $12x^2y$
(c) $12x^3y$ (d) $16x^4y$

SCIENCE

21. Which of following motion given below is the odd one?
- (a) Tip of blade of a fan when switched on
(b) Stone tied to a string, whirled around
(c) Merry go round
(d) Tip of wheel of bicycle moving on road
22. Which of the following is true?
- (a) We are in motion with respect to sun
(b) A standing man in a station is in motion with respect to a person in a train
(c) Both (a) and (b) are true
(d) Both (a) and (b) are false
23. Choose the option which is matched wrong.
- (a) hands of a clock -Movement
(b) horse drawn carriage-Locomotion
(c) blades of a ceiling fan - Movement
(d) car travelling on road - Movement
24. Which one is the biggest unit for measuring length?
- (a) Kilometer (b) Centimeter
(c) Millimeter (d) Meter
25. 105 cm is equal to _____ m.
- (a) 1 m (b) 1.05 m
(c) 1.005 m (d) 1.5 m
26. If four hand spans is equal to one footstep and two footsteps equal to one stick, then what would seven sticks be equal to?
- (a) 56 hand spans
(b) 48 hand spans
(c) 100 hand spans
(d) 28 hand spans
27. $1\text{m}^2 =$
- (a) 100 cm^2 (b) 1000 cm^2
(c) 10000 cm^2 (d) 100000 cm^2
28. Pendulum of a clock is which of the following types of motion?
- (a) Rectilinear motion
(b) Circular motion
(c) Periodic motion
(d) None of these
29. Car travelling on a curve road has which type of motion?
- (a) Rectilinear motion
(b) Circular motion
(c) Periodic motion
(d) None of these
30. Which of following is non-luminous object?
- (a) Light bulb (b) Moon
(c) Sun (d) Stars
31. The object through which light partially passes through is called
- (a) Opaque object
(b) Transparent object
(c) Translucent object
(d) Luminous object

32. Periscope helps us to see
(a) around corners
(b) very low objects
(c) very small objects
(d) none of these
33. Which of the following is a force that slows down the moving things?
(a) Motion (b) Friction
(c) Gravity (d) Acceleration
34. Thermal insulator is a material that
(a) Moves heat easily through the material
(b) Reduces or prevents the transfer of heat
(c) is flammable and can start fire
(d) Does not exist
35. An object that fully transmits light is _____
(a) Translucent
(b) Opaque
(c) Transparent
(d) None of the above
36. If you want to see bacteria clearly, which instrument will you use?
(a) Periscope (b) Telescope
(c) Microscope (d) Binoculars
37. We use copper wire instead of plastic wires in electrical circuits because:
(a) copper is an insulator
(b) copper is a good conductor
(c) copper is cheap
(d) copper can be easily drawn into wires
38. Which appliance uses heating effect of current?
(a) Electric iron (b) Ceiling fan
(c) Light bulb (d) Refrigerator
39. Terminal of battery that has a metallic cap over it is called
(a) Positive terminal
(b) Negative terminal
(c) Neutral
(d) None of these
40. In a battery, _____(i)_____ energy is converted to _____(ii)_____ energy.
(a) (i) – Mechanical (ii) – Chemical
(b) (i) – Chemical (ii) – electrical
(c) (i) – Electrical (ii) – Chemical
(d) (i) – Electrical (ii) - Mechanical
41. The rate of sedimentation is increased by adding _____ to the water.
(a) salt (b) sugar
(c) alum (d) soap
42. The method that is used to obtain pure salt from impure salt is
(a) decantation (b) hand picking
(c) crystallization (d) evaporation
43. A solution which cannot dissolve more of a given substance at a given temperature is
(a) solution
(b) filtrate
(c) saturated solution
(d) unsaturated solution

44. A greenhouse gas that absorbs energy and maintains earth's temperature is
(a) carbon dioxide (b) oxygen
(c) nitrogen (d) argon
45. What is the name of process that involves pulling and twisting of strands of a fibre?
(a) Ginning (b) Weaving
(c) Spinning (d) None of these
46. Which part of the jute plant give the fibre?
(a) Root (b) Stem
(c) Leaf (d) Flower
47. The pod of cotton containing fibres and seeds is called a cotton _____.
(a) flower (b) fruit
(c) boll (d) bloom
48. Which of the following has dull appearance?
(a) Steel chair (b) Aluminium foil
(c) Brick (d) Steel bucket
49. When we open a cool drink, we might have observed the liquid coming out with a fizz. This is due to
(a) solubility
(b) evaporation
(c) condensation
(d) liquefaction
50. When wooden wheel is fixed into iron rim, iron rim
(a) is heated and then cooled
(b) is cooled and then fixed
(c) is melted and then cooled
(d) none of these
51. Which of the following is a simultaneous physical and chemical change?
(a) Inflating a balloon
(b) Burning of paper
(c) Burning of candle
(d) Melting of ice
52. Fish derive oxygen from
(a) water because it is a compound
(b) the soil below water
(c) the dissolved air in water
(d) the atmospheric air
53. The composition of air is not fixed because
(a) the proportion of CO₂ in cities is greater than in rural areas
(b) the amount of moisture is greater in rainy season than in dry season
(c) the amount of dust and soot varies according to different season and places
(d) all of these
54. Which of the following is not a form of precipitation?
(a) Hail (b) Snow
(c) Rain (d) River
55. Which of the following is not related to floods?
(a) Damage to life and property
(b) Erosion to soil
(c) Loss of aquatic life
(d) Falling of the water table
56. Which of the following grows best in black soil and warm climate?
(a) Cotton (b) Flax
(c) Jute (d) Coconut

57. Which of the following are required for the rusting of Iron?
(a) Iron, carbon dioxide, water and helium
(b) Iron, oxygen and water
(c) Iron, oxygen, water and nitrogen
(d) Iron, carbon dioxide, water and oxygen
58. **Statement A:** Curdling of milk is a slow change.
Statement B: A little amount of curd is initially added to luke warm milk, the lactobacillus bacteria convert milk into curd within few hours.
(a) Statement A and Statement B are correct and Statement B is the correct explanation for Statement A
(b) Statement A and Statement B are correct but Statement B is not the correct explanation for Statement A
(c) Statement A is correct and Statement B is incorrect
(d) Statement A is incorrect and Statement B is correct
59. When ice water is poured in a tumbler, few water droplets appeared at the outer surface of the tumbler. This is due to
(a) condensation (b) evaporation
(c) sublimation (d) none of these
60. The material that do not allow light to pass through them is
(a) wood (b) butter paper
(c) milk (d) both (b) and (c)
61. Methods of making compost using _____ is called Vermi composting.
(a) Earthworm (b) Snail
(c) Plastics (d) Insects
62. Earthworms breathe through their _____.
(a) Skin (b) gills
(c) lungs (d) stomata
63. Which organ(s) is/are not a part of the digestive system?
(a) Lungs
(b) Stomach
(c) Small intestine
(d) Large intestine
64. Which of the following is not a milk product?
(a) Cheese (b) Butter
(c) Honey (d) Yogurt
65. Woody perennials, attaining a height between 3m to 5m with bushy appearance & profusely branched stems from the ground are known as _____.
(a) herbs (b) shrubs
(c) trees (d) none of these
66. In sea, plants and animals are surrounded by _____ water.
(a) fresh (b) saline
(c) acidic (d) marshy
67. Which is the longest bone in the body?
(a) Femur (b) Humerus
(c) Spinal cord (d) Calf bone
68. Which of the following joints is immovable?
(a) Shoulder and arm
(b) Knee and joint
(c) Upper jaw and skull
(d) Lower jaw and upper jaw
69. Which of the following is composed of cartilage?
(a) Arms (b) Leg
(c) Skull (d) External ear

70. Which of the following nutrients is not present in milk?
(a) Protein (b) Vitamin C
(c) Calcium (d) Vitamin D
71. Scurvy (Bleeding gums) is caused due to the deficiency of _____
(a) Vitamin A (b) Vitamin B1
(c) Vitamin C (d) Vitamin D
72. Read the following statement about disease
(i) they are caused by germs
(ii) they are caused due to lack of nutrients in our diet
(iii) they can be passed on to another person through a contact
(iv) they can be prevented by taking a balanced diet
Which pair of statements best describe deficiency disease?
(a) (i) and (iv) (b) (ii) and (iii)
(c) (ii) and (iv) (d) (i) and (iii)
73. _____ is essential for forming haemoglobin in the blood.
(a) Calcium (b) Iron
(c) Phosphorous (d) Magnesium
74. Which of the following is abiotic?
(a) Dog (b) Trees
(c) Rocks (d) Bacteria
75. Breathing activity is a part of which of the following bio-chemical process?
(a) Photosynthesis (b) Respiration
(c) Digestion (d) Excretion
76. The poison of honey bee is
(a) Acidic (b) Saltish
(c) Alkaline (d) Protein
77. Humans who eat chicken, turkey, and vegetables come under _____.
(a) Omnivore (b) Herbivore
(c) Carnivore (d) None of these
78. We get sources of sugar from _____.
(a) honey (b) sugarcane
(c) jaggery (d) none of these
79. Spirulina is a _____.
(a) edible fungus
(b) bio-fertilizer
(c) single cell proteins
(d) Bacteria
80. Carnivore animals are classified as
(a) assimilators (b) competitors
(c) communicators (d) predators

ENGLISH

81. What is a noun?
(a) Naming words
(b) Describing words
(c) Connecting words
(d) None of the above
82. What is a verb?
(a) Naming words (b) Action words
(c) The word that takes the place of a noun
(d) Inrijunctions
83. What is a pronoun?
(a) The word that describes a noun
(b) Action words
(c) The word takes the place of a noun
(d) Describing a verb

84. What is an adverb?
 (a) Relationship words
 (b) Connecting words
 (c) Alternative words
 (d) The word that describes the verb
85. The school is opened _____ 9 am
 _____ 5 pm.
 (a) from, to (b) between, and
 (c) both (a) and (b)
 (d) none of the above
86. Stalin is 70 years old _____ he is strong.
 (a) yet (b) so
 (c) even though (d) although
87. Do you want tea _____ coffee?
 (a) and (b) or
 (c) for (d) too
88. Steam engine was _____ by Stephenson.
 (a) invented (b) discovered
 (c) founded (d) none of the above
89. Dr. Manmohan Singh is the _____ Prime Minister of India.
 (a) former (b) ex
 (c) later (d) all of the above
90. Mahatma Gandhi school was _____ by Mr. Santhanam.
 (a) started (b) began
 (c) founded (d) organized

LOGICAL REASONING

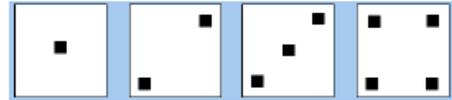
91. What is the missing letter in this series?
 b e h k n ? t
 (a) o (b) p
 (c) q (d) r

92. Here is a list of months and a code for each
 January: 7110 February: 826
 March: 5313 April: 541
 May: 3513 June: 4610
 July: 4710

What is the code for the month August?

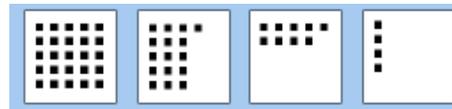
- (a) 683 (b) 681
 (c) 386 (d) 186
93. If two typists can type two pages in two minutes, how many typists will it take to type 18 pages in six minutes?
 (a) 3 (b) 4
 (c) 6 (d) 12

94. Complete the sequence of figures?



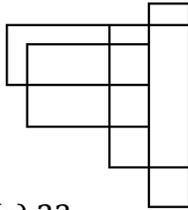
- (a) (b)
 (c) (d)

95. Complete the sequence of figures?



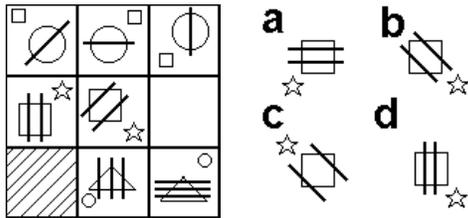
- (a) (b)
 (c) (d)

96. Count the number of rectangles in the given figure:



- (a) 23 (b) 24
(c) 25 (d) 26

97. Find the missing piece:



98. A is B's sister. C is B's mother.
D is C's father. E is D's mother.
Then, how is A related to D?
(a) Grandmother (b) Grandfather
(c) Daughter (d) Grand daughter
99. 9 4.5 4.5 6.75 13.5 33.75?
(a) 101.25 (b) 103.75
(c) 99.75 (d) 105.50

100. In the following number series, a wrong number is given. Find out that wrong number.

16 19 21 30 46 71 107

- (a) 19 (b) 21
(c) 30 (d) 46