

# LEAD TALENT SEARCH EXAM - LTSE 2015

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SUNDAY, 19<sup>TH</sup> APRIL 2015 – KARNATAKA

**ENTRANCE TEST FOR 10<sup>TH</sup> STD STUDENTS FOR 2YEAR RESIDENTIAL COACHING FOR IIT-JEE 2017 & MEDICAL ENTRANCE EXAMS 2017 AND ADMISSION TO PUC WITH**

## **PARTNER COLLEGES**

Sl.	College	City	Gender	Coaching For	No. of FREE Seats
1	Alpine PU College	Bangalore	Only Boys	IIT-JEE / NIT + KCET Engineering	10
2	M S Academy	Hyderabad	Only Boys	IIT-JEE / NIT	30
3	Shaheen PU College	Bidar	Boys & Girls	Karnataka & Kerala CET Med & Engg	50
4	Shaheen PU College	Bangalore	Only Boys	Karnataka & Kerala CET Med & Engg	10
5	Shaheen PU College	Gulbarga	Boys & Girls	Karnataka & Kerala CET Med & Engg	30
6	Shaheen Challenger Junior College	Hyderabad	Only Girls	Karnataka & Kerala CET Med & Engg	10
7	Shaheen Crescent PU College	Bangalore	Only Girls	Karnataka & Kerala CET Med & Engg	07

NAME OF THE STUDENT : .....

LTSE 2015 Hall Ticket No. : .....

CENTRE NAME : .....

Co-ordinator Name : .....

Co-ordinator Mobile No. : .....

**STUDENTS SELECTED FOR INTERVIEW MUST BRING THIS QUESTION PAPER AT THE TIME OF INTERVIEW . KEEP THIS SAFELY TILL THE DATE OF INTERVIEW**

### INSTRUCTIONS TO THE CANDIDATE

1. This question booklet contains **120** questions. Please verify that this booklet contains all **120** questions in correct serial order.
2. **This question paper consists only objective type questions in 4 parts:**  
 Part I - Logical Reasoning  
 Part II - Mathematics  
 Part III - Physics  
 Part IV - Chemistry  
 Part V - Biology.  
 Indicate your answers **ONLY** on the OMR sheet.
3. **Students opting for Engineering - IIT-JEE 2017 should answer Part I, Part II, Part III and Part IV only.** Time: 150 Mins. Marks: 95
4. **Students opting for Medical 2017 should answer Part I, Part III, Part IV & Part V only.** Time:150 mins. Marks:95
5. **NEGATIVE MARKING:** Each correct answer will be awarded one mark.  $\frac{1}{4}$  marks will be deducted for each incorrect answer.
6. More than one answer marked against a question will be deemed as an incorrect answer and will be negatively marked.
7. Use of Calculators/logarithmic tables is **NOT ALLOWED**.
8. **Kindly use the blank space in the Question Paper for all ROUGH WORK.**

**PLEASE DO NOT OPEN THE SEAL UNTIL YOU ARE ASKED TO DO SO.**

# Part 1: Logical Reasoning

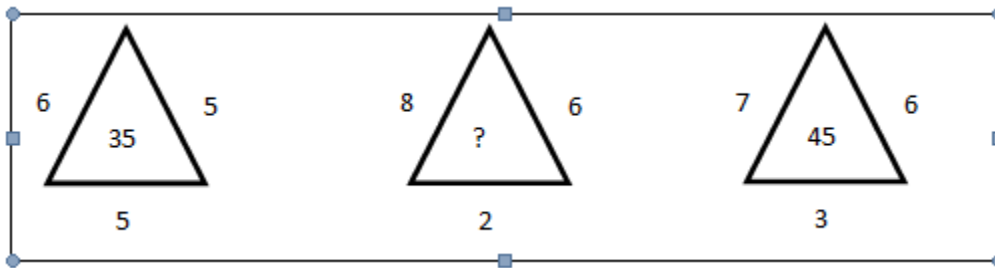
1. Find the odd pair
  - a. 54-62
  - b. 70-80
  - c. 28-32
  - d. 21-24
  
2. Choose a number that is similar to the numbers in the set 579, 489, 363
  - a. 471
  - b. 284
  - c. 296
  - d. 167
  
3. Find the next number in the sequence  $7 : 48 :: 8 : ?$ 
  - a. 78
  - b. 65
  - c. 59
  - d. 63
  
4. A watch reads 7:30. If the minute hand points at West, in which direction will the hour hand point?
  - a. South-West
  - b. North-West
  - c. South-East
  - d. North-East
  
5. Complete the series: A, CD, GHI, ..., UVWXY
  - a. LMNO
  - b. MNO
  - c. NOPQ
  - d. MNOP
  
6. Complete the series: 11, 23, 48, 99, 202, ...

- a. 401                      b. 408                      c. 409                      d. 405

7. One early morning immediately after sunrise, I stood directly facing my house. I noticed that the shadow of the house fell to my left. In which direction was I facing?

- a. South                      b. North                      c. East                      d. West

8. Find the missing number



- a. 55  
b. 50  
c. 36  
d. 40

9. Find the missing number

81	9
18	

84	12
14	

88	11
?	

- a. 18  
b. 16  
c. 25  
d. 8

10. Other than noon and midnight, how many times do the hour and the minute hands cross each other?

- a. 11  
b. 10  
c. 9

- d. 12
11. Five marbles of different colors are arranged in a line. You decide to arrange these marbles in different unique combinations, but move only one marble per minute. How much time will it take for you to arrange them in all possible combinations?
- a. One hour
- b. One and half hours
- c. Two hours
- d. Two hours and 20 minutes
12. I told my daughter: "I was your present age when you were born". I am 40 years old now. How old will be my daughter 10 years from now?
- a. 10
- b. 20
- c. 30
- d. 25
13. If  $9 * 3 = 144$  and  $6 * 3 = 81$ , what is  $10 * 2$ ?
- a. 100
- b. 144
- c. 104
- d. 169
14. Five timers are set to ring at durations of 12 seconds, 15 seconds, 20 seconds, 25 seconds and 45 seconds. If they all ring together at 12:00 noon, when will they all ring together again next?
- a. 1:00 PM
- b. 1:05 PM
- c. 12:30 PM
- d. 12:15 PM

15. Imagine that Dec 1st of some year is a Tuesday. When will the last Sunday of that year fall on?
- a. Dec 29th
  - b. Dec 27th
  - c. Dec 26th
  - d. Dec 30th
16. All students in a class are arranged in a line. You are 10th in the line from the beginning and I am 8th from the end. When we switch places, you are 25th from the beginning. How many students are in the class?
- a. 32
  - b. 29
  - c. 30
  - d. 34
17. A caterpillar climbs up a wall five meters every minute, but slips back two meters in the next minute. If it starts climbing a 90 meters tall wall at 5:00 AM, at what time will it touch the top of the wall?
- a. 6:00 AM
  - b. 5:30 AM
  - c. 5:59 AM
  - d. 6:01 AM
18. Pointing out to a photograph, a man tells his friend, “She is the daughter of the only son of my father’s only wife”. How is the girl in the photograph related to the man?
- a. Niece
  - b. Daughter
  - c. Sister
  - d. Cousin

19. How many numbers are there from 1 to 50, each of which is exactly divisible by 4 and also contain 4 as a digit in it?
- a. 4
  - b. 6
  - c. 3
  - d. 5
20. How many times are the hour and minute hands at 180° from each other in 24 hours?
- a. 24
  - b. 23
  - c. 22
  - d. 21

## Part 2: Mathematics

21. If  $9\sqrt{x} = \sqrt{12} + \sqrt{147}$ , the value of  $x$  is
- a) 12    b) 9  
c) 3    d)  $\sqrt{3}$

22. Three numbers are in the ratio  $\frac{1}{3} : \frac{1}{5} : \frac{1}{6}$ . If the sum of their squares is 644,

then the sum of the numbers is,

- a) 42  
b) 50  
c) 32  
d) 14

23. The first term of a GP is 64 and the common ratio is 'r'. If the arithmetic average of the first and the fourth term is 140, then the value of 'r' is

- a) 2  
b) 3  
c) 1.5  
d) 5

24. A ladder of length 2.6m is leaned against a wall. When it is at a distance of 2.4 m from the foot of the wall, the top of the ladder touches the bottom edge of the window in the wall. If the foot of the ladder is moved 1.4m towards the wall it touches the top edge of the window. The height of the window is

- a) 1 m                      b) 1.4 m                      c) 2 m                      d) 4 m

25.

In a function people greet themselves with shake hands. If the number of shake hands is 4950, then people present there are -----

A) 120

B) 110

C) 100

D) 90

26.

Which one among these is the biggest ?

A)  $\sqrt{3}$

B)  ${}^3\sqrt{3}$

C)  ${}^4\sqrt{10}$

D)  $\sqrt{2}$

27.

In a group of passengers 100 can speak Kannada 50 can speak English and 25 can speak both Kannada and English. Then the total number of passengers and the number of passengers who can speak only Kannada are

a) 150 and 50 respectively.

b) 125 and 50 respectively.

c) 150 and 75 respectively.

d) 125 and 75 respectively.

28.

If the maximum number of diagonals in a polygon is 14, then the number of sides of the polygon are

a) 5

b) 8

c) 6

d) 7

29.

One root of the equation  $x^2 - 5x + K = 0$  is 2. Then  $K$  is,

(a) -6

(b) 6

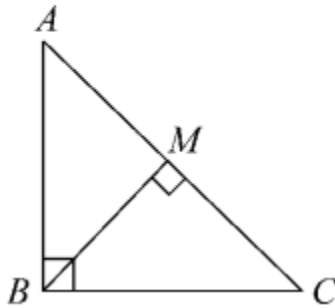
(c) 5

(d) 2



30.

In  $\triangle ABC$ ,  $\angle ABC = 90^\circ$ ,  $BM \perp AC$ ,  $AM = 8x^2$ ,  $MC = 2x^2$ , find  $BM$  and  $AB$ .



- a)  $BM = 4x^2$ ,  $AB = (\text{square root } 80) \cdot x^2$
- b)  $BM = 8x^2$ ,  $AB = (\text{square root } 60) \cdot x^2$
- c)  $BM = 4x^2$ ,  $AB = (\text{square root } 16) \cdot x^2$
- d)  $BM = 2x^2$ ,  $AB = (\text{square root } 80) \cdot x^2$

31.

A solid hemisphere of wax of radius 12 cm is melted and made into a cone of base radius 6 cm. Calculate the height of the cone.

- a) 90
- b) 120
- c) 48
- d) 96

32.

From a point 50 m above the ground the angle of elevation of a cloud is  $30^\circ$  and the angle of depression of its reflection is  $60^\circ$ . Find the height of the cloud above the ground.

- a) 60
- b) 80 m
- c) 100 m
- d) 120 m

33.

How many 3-digit numbers can be formed using the digits 1, 2, 3, 4, 5 and 6 without repeating any digit?

- a) 120
- b) 100
- c) 125
- d) 140

34.

If  $nP_r = 336$  and  $nC_r = 56$  find  $n$  and  $r$ .

a)  $n = 6, r = 4$

b)  $n = 8, r = 4$

c)  $n = 8, r = 3$

d)  $n = 6, r = 3$

35.

Find the least number of square tiles that will be needed to pave a hall 5m 44 cm long and 3m 74 cm wide.

a) 192

b) 176

c) 184

d) 162

36.

The slope of the line perpendicular to the line joining the points (1, 7) and (-4, 3) is

a)  $4/5$

b)  $5/4$

c)  $-4/5$

d)  $-5/4$

37. If  $p$  and  $q$  are the roots of the equation  $2a^2 - 4a + 1 = 0$ , then the value of  $(p+q)^2 + 4pq$  is

a) 2

b) 4

c) 6

d) 8

38.

If three circles of diameter 6cm, 8cm & 10 cm with centres A, B & C touch externally. Then the perimeter of the triangle ABC obtained by joining these points is

A) 12cm

B) 24cm

C) 36cm

D) 48cm

39.

If the Arithmetic Mean (AM) and Geometric Mean (GM) of two numbers are 5 and 4. Find the sum of their squares.

a) 68

b) 20

c) 56

d) 76

40.

In what ratio does the point (-2, 3) divide the line segment joining the points (-3, 5) and (4, -9)?

a) 1:7

b) 1:6

c) 1:5

d) 1:8

41.

If the sum of  $1 + 2 + 3 + \dots$  upto  $n$  terms is 78, then the value of  $n$  is,

- a) 10                      b) 11                      c) 12                      d) 13

42.

Probability of getting 3 heads or 3 tails in tossing a coin 3 times is,

- a)  $\frac{1}{8}$                       b)  $\frac{1}{4}$                       c)  $\frac{3}{8}$                       d)  $\frac{1}{2}$

43.

The sides of two similar triangle are in the ratio 2 : 3. Then their areas are in the ratio

- (a) 9 : 4                      (b) 4 : 9                      C) 2 : 3                      (d) 3 : 2

44.

The sum of all natural numbers between 1 and 201 which are divisible by 5 is

- a) 3900                      b) 4200                      c) 4000                      d) 4100

45.

The sum and the product of three numbers are 0 and 30 respectively. The sum of their cubes is

- a) 0                      b) 90                      c) 160                      d) 900

## Part 3: Physics

46. A person moves a certain distance in a certain time. If  $\frac{1}{3}$  of the distance is covered in  $\frac{2}{3}$  of the time with speed  $V_1$ , and the rest of the  $\frac{2}{3}$  distance in  $\frac{1}{3}$  of the time speed  $V_2$ , then  $V_1 / V_2$  is

- a.  $\frac{1}{2}$                       b.  $\frac{1}{4}$                       c.  $\frac{4}{9}$                       d.  $\frac{2}{9}$

47. If one puts ones ears to the steel rail, the sound of a coming train can be heard even when the Train cannot be seen. One can conclude from this observation that

- a. Sound travels faster in steel than in air.  
b. Amplitude of sound in the rail is much larger than in air.  
c. Sound can travel larger distances in solids than in air.  
d. Quality of sound in rail is better than in air.

The reasonable conclusions are

- a. a and c  
b. a and b  
c. b and c  
d. b and d

48. Examine the following statements:

- a. When two bodies are rubbed against each other, the charges are created.  
b. When two bodies are rubbed against each other, charges in these bodies are redistributed.  
c. When two bodies are rubbed against each other, similar charges appear on each.  
d. When two bodies are rubbed against each other, dissimilar charges appear on both.

The correct statements are:

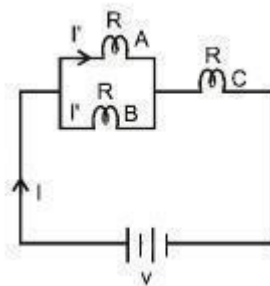
- a. All four  
b. None  
c. Only A and C  
d. Only B and D

49. Bottom of the bucket containing water appears to be raised; physical phenomenon behind it is:

- a. Reflection of light  
b. Refraction of light  
c. Diffraction of light  
d. Dispersion of light

50. The type of motion with reference to friction in decreasing order is:
- rolling, static, sliding
  - rolling, sliding, static
  - static, sliding, rolling
  - sliding, static, rolling
51. Mohan moves 30 mts in a straight line towards East and then moves 40 mts to the South. Find his displacement:
- 70 mts
  - 20 mts
  - 50 mts
  - 60 mts
52. A vibrator generates the waves of the speed 330 m/s and wavelength 1.1 m. Then the frequency and timeperiod is
- 264 Hz, 0.0037 sec
  - 412.5 Hz, 0.0024 sec
  - 300 Hz, 0.0033 sec
  - 264 Hz, 0.0033 sec
53. When a stone is dropped into the lake, the produced waves are
- Transverse waves
  - Sound waves
  - Longitudinal waves
  - Electromagnetic waves
54. The power of the concave lens is 0.05 per cm. At what distance should the object from the lens be placed so that it forms an image at 10 cm from the lens?
- 20 cm
  - 1/20 cm
  - 10 cm
  - 1/10 cm
55. The acceleration due to gravity of the earth is  $9.8 \text{ m/s}^2$  and the radius of the earth is 6400 km. What is the approximate mass of the earth? Take Universal Gravitational constant  $G = 6.67 \times 10^{-11} \text{ Nm}^2/\text{Kg}^2$  :
- $6 \times 10^{24} \text{ kg}$
  - $6 \times 10^{20} \text{ kg}$
  - $9 \times 10^{24} \text{ kg}$
  - $9 \times 10^{20} \text{ kg}$
56. Which of the following correctly describes the magnetic field near a long straight wire?
- The field consists of straight lines perpendicular to the wire.
  - The field consists of straight lines parallel to the wire.
  - The field consists of radial lines originating from the wire.
  - The field consists of concentric circles centred on the wire.
57. Boiling point of water in Fahrenheit scale is
- 180 deg F
  - 158 deg F
  - 100 deg F
  - 212 deg F

58. Heat supplied to a substance at its melting point is used for
- Rise in temperature
  - Change of state
  - Both (1) and (2)
  - Doing work
59. A car is moving with a constant speed of 70 km/h. Which of the following statements is correct ?
- The acceleration of the car is definitely zero.
  - The car has an acceleration only if it is moving along a curved path
  - The car may have an acceleration even if it is moving along a straight path
  - The car may not have an acceleration even if it is moving along a curved path
60. A box of mass 20 kg is pushed along a rough floor with a velocity 2 m/s and then let go. The box moves 5 m on the floor before coming to rest. What must be the frictional force acting on the box ?
- 4 N
  - 2 N
  - 20 N
  - 8 N
61. A spring balance measures the weight of an object in air to be 0.1 N. It shows a reading of 0.08 N when the object is completely immersed in water. If the value of acceleration due to gravity is  $10\text{m/s}^2$ . The volume of the object is
- $20\text{ cm}^3$
  - $80\text{ cm}^3$
  - $200\text{ cm}^3$
  - $2\text{ cm}^3$
62. Consider a simple circuit as shown containing a battery and three identical incandescent bulbs A, B and C. Bulb A is wired in parallel with bulb B and this combination is wired in series with bulb C. What would happen to the brightness of the other two bulbs if bulb A were to burn out?
- Only bulb B would get brighter.
  - Both B and C would get brighter.
  - Bulb B would get brighter and Bulb C would get dimmer.
  - There would be no change in the brightness of either bulb B or bulb C.



63. A ball of mass 0.20 kg falls freely from a certain height and rebounds elastically with a speed of 40 m/s. The change in momentum of the ball is
- 4 kg-m/s
  - 8 kg-m/s
  - 16 kg-m/s
  - 40 kg-m/s

64. The amount of energy consumed by a 10HP water pump in 10 minutes to lift the water to overhead tank is:
- 26.856 MJ
  - 4.476 MJ
  - 53.712 MJ
  - 13.428 MJ
65. A ray of light passes from denser medium to rarer medium. If the thickness of the denser medium is doubled, then the emerging angle is
- also doubled.
  - Reduced by its half.
  - Not affected.
  - Critical angle.
66. Inside the magnet, the field lines run
- From south to north
  - Away from north pole
  - From north to south
  - Away from south pole
67. When light passes through a prism, the colour which deviates the least is
- Red
  - Violet
  - Green
  - Blue
68. An electric fuse is based on
- the chemical effect of the current
  - the heating effect of the current
  - the magnetic effect of the current
  - None of these
69. Two charged bodies having equal potential are connected through a conducting wire. In this case
- current will flow.
  - current will not flow.
  - cannot say.
  - current will flow if a resistor is also connected.
70. A body of weight  $W$  is suspended from the ceiling of a room through a rope of weight  $R$ . The ceiling pulls the rope by a force of
- $W$
  - $R$
  - $W + R$
  - $(W + R)/2$

## Part 4 : CHEMISTRY

71. Which solution is least acidic

- a) pH = 6                      b) pH = 7                      c) pH = 13                      d) pH = 2

72. The most electronegative atom among the following is

- a) Hydrogen                      b) Fluorine  
c) Nitrogen                      d) Chlorine

73. The number of moles of solute present in 1 litre of its solution is called its

- a) molality                      b) molarity  
c) normality                      d) formality

74. The metallurgical process in which a metal is obtained in a fused state is called

- a) smelting                      b) Roasting  
c) calcinations                      d) froth floatation

75. How many electrons are present in second shell of Nitrogen ?

- a) 2                      b) 6                      c) 8                      d) 5

76. The main buffer system of the human blood is

- a)  $\text{H}_2\text{CO}_3 - \text{HCO}_3^-$                       b)  $\text{H}_2\text{CO}_3 - \text{CO}_3^{2-}$   
c)  $\text{CH}_3\text{COOH} - \text{CH}_3\text{COO}^-$                       d)  $\text{NH}_2\text{CONH}_2 - \text{NH}_2\text{CONH}^+$



77. The gas present in the stratosphere which filters out some of the sun's ultraviolet light and provides an effective shield against radiation damage to living things is

- a) helium                      b) ozone                      c) oxygen                      d) methane

78. Most soluble in water is —

- a) Camphor                      b) Magnesium  
c) Sulphur                      d) sodium chloride

79. The formula  $\text{CH}_3\text{-CO-CH}_3$  represents

- a) Acetone                      b) Acetic acid                      c) Acetophenone                      d) methyl acetate

80. The half-life period of an isotope is 1 hour. After 4 hours what fraction of the initial quantity of the isotope will be left behind?

- a)  $\frac{1}{6}$                       b)  $\frac{1}{4}$                       c)  $\frac{1}{16}$                       d)  $\frac{1}{8}$

81. The number of protons present in  $\text{H}^+$  is

- a) zero                      b) one                      c) two                      d) three

82. The action of heat on limestone is an example of which type of reaction?

- a) Combination                      b) Displacement                      c) Decomposition                      d) Redox

83. Following is the reactivity series in decreasing order of their reactivity -

Magnesium > Zinc > Iron > Lead > Copper > Silver > Gold

Which one of the following metals can displace zinc from zinc sulphate solution?

- a) Pb                      b) Ag                      c) Au                      d) Mg

84. The method that cannot be used for removing permanent hardness of water is

- a) adding sodium carbonate                      b) distillation  
c) adding caustic soda                              d) Boiling

85. Which of the following compounds contain least number of oxygen in its molecules ?

- a) Nitric acid    b) Sodium Carbonate  
c) Magnesium oxide                                d) Sodium bicarbonate

86. The hydronium ion is

- a)  $H^+$                                       b)  $H_2O^-$                                       c)  $H^{2+}$                                       d)  $H_3O^+$

87. Formalin is :

- a) 60 % formic acid                                b) 40 % formaldehyde  
c) 60 % Acetic acid                                d) 40% Acetic acid

88. The hardest form of carbon is

- a) coke                      b) Graphite                      c) charcoal                      d) Diamond

89. Which of the following pairs are monovalent metals?

- a) Ca, Al                      b) Fe, Na                      c) Na, K                      d) Mg, Zn

90. Which of the following show variable valency?

- a) Na                      b) Cu                      c) Al                      d) Mg

91. Which of the following statements is wrong about alkenes?

- a) They have general formula  $C_nH_{2n}$   
b) They have carbon – carbon double bond  
c) They are unsaturated compounds  
d) The first member is methene

92. The total number of covalent bonds in ethanol is

- a) 5                      b) 8                      c) 7                      d) None of these

93. The oxygen atom has 8 protons and 8 electrons. The oxide ion  $O^{2-}$  will have

- a) 8 protons and 6 electrons  
b) 6 protons and 8 electrons  
c) 8 protons and 10 electrons  
d) 8 protons and 16 electrons

94. The total number of atoms present in 2 moles of carbon dioxide is

- a)  $6.02 \times 10^{23}$                       b)  $3 \times 10^{23}$                       c)  $1.806 \times 10^{24}$                       d)  $12.04 \times 10^{23}$

95. The names of the scientists- Newlands, Mendeleev, and Meyer are associated with the development of

- a) atomic structure                      b) metallurgy  
c) periodic table of elements                      d) discovery of elements

# Part 5: BIOLOGY

96. A cross is made between true breeding tall and dwarf pea plants, in  $F_1$  generation all plants appear tall. Up on selfing  $F_1$  hybrids in  $F_2$  generation, both tall and dwarf plants appear. Which principle of inheritance is explaining this genetic phenomenon is
- Law of dominance
  - Law of segregation
  - Law of unit character
  - Law of independent assortment.
97. Cold treatment given to the seeds for the induction of early flowering is
- Photoperiodism
  - Vernalization
  - Photorespiration
  - Cryopreservation
98. Light reaction of photosynthesis occurs in grana of chloroplast and it results in formation of following assimilatory powers is
- ATP
  - $NADPH + H^+$
  - $O_2$
  - Both a and b
99. Which of the following acts as antitranspirant
- Gibberalic acid
  - Auxin
  - Ethylene
  - Phenyl mercuric acetate
100. The RQ value becomes one when
- Oxygen consumed more than  $CO_2$  evolved.
  - Oxygen consumed less than  $CO_2$  evolved.
  - Oxygen consumed equals to  $CO_2$  evolved.
  - Respiration stops.
101. Causative agent for tuberculosis is
- Mycobacterium leprae*
  - Mycobacterium tuberculosis*
  - Yersinia pestis*
  - Vibrio cholera*

102. If DNA contains 15% Adenine find out the percentage of C+G
- 15%
  - 70%
  - 35%
  - 20%
103. What happens when RBCs are kept in distilled water
- Swelling due to endosmosis and finally burst
  - Swelling due to endosmosis but do not burst
  - No change at all
  - RBC undergoes shrinking
104. G.J. Mendel conducted experiments upon
- Allium cepa
  - Drosophila melanogaster
  - Pisum sativum
  - Cucurbita pepo
105. If both sperm and ovum contain 7 chromosomes, the resulting embryo contains \_\_\_\_\_ chromosomes.
- 7
  - 3.5
  - 14
  - 7.5
106. Which of the following are the symptoms of diabetes mellitus
- Polyurea
  - Glycosurea
  - Ketonurea
  - All of these
107. Which of the following are responsible for acid rain
- CO<sub>2</sub>
  - CO
  - NO<sub>2</sub>
  - CH<sub>4</sub>
108. Osteoporosis i.e. weakening of bones is caused by the hypersecretion of \_\_\_\_\_ hormone
- Insulin
  - Parathormone
  - Thyrosine
  - Thyroxine

109. Saliva contains \_\_\_\_\_ enzymes
- Ptyalin
  - Pepsin
  - Rennin
  - Trypsin
110. Milk teeth contain total \_\_\_\_\_ teeth
- 10
  - 25
  - 20
  - 32
111. During which stage of cell division crossing over occurs
- Zygotene
  - Pachytene
  - Diplotene
  - Leptotene
112. The valve present in human heart between Right Atrium and Right Ventricle is
- Bicupsid
  - Semilunar
  - Tricusid
  - Eustachian
113. Programmed cell death is called
- Endocytosis
  - Apoptosis
  - Phagocytosis
  - Pinocytosis
114. The normal blood pressure is 120/80 mmHg. The normal pulse pressure is
- 40 mmHg
  - 200 mmHg
  - 1.5 mmHg
  - 9600 mmHg
115. During which stage of cell division centromere splits
- Metaphase
  - Telophase
  - Prophase
  - Anaphase

116. Root hairs are
- Unicellular
  - Multicellular
  - Binucleated
  - Multinucleated
117. Antimicrobial activity in tears is due to which enzyme
- Pepsin
  - Lysozyme
  - None of these
  - Trypsin
118. Maintenance of body posture is due to which part of the brain
- Hypothalamus
  - Cerebrum
  - Cerebellum
  - Medulla
119. The ability of a single plant cell to develop into a whole plant is called
- Pluripotency
  - Totipotency
  - Unipotent
  - All of these
120. Which blood group lacks blood antigens
- A
  - B
  - AB
  - O

-----End of Question Paper-----