

FIITJEE SAMPLE PAPER – 2018

(Big Bang Edge Test / Talent Recognition Exam)

for students presently in
Class 8 (Paper 1)

Time: 3 Hours (9:30 am – 12:30 pm)

Code **8000**

Maximum Marks: 420

Instructions:

Caution: Class, Paper, Code as given above MUST be correctly marked in the answer OMR sheet before attempting the paper. Wrong Class, Paper or Code will give wrong results.

1. This Question paper consists of 2 sections. All questions will be multiple choice single correct out of four choices with marking scheme in table below:

Section		Question no.	Marking Scheme for each question	
			correct answer	wrong answer
SECTION – I	APTITUDE TEST	Q. 1 to 24	+3	0
		Q. 25 to 36	+4	0
		Q. 37 to 45	+5	0
SECTION – II (SCIENCE & MATHEMATICS)	PHYSICS	Q. 46 to 54	+3	0
		Q. 55 to 60	+4	0
	CHEMISTRY	Q. 61 to 69	+3	0
		Q. 70 to 75	+4	0
	MATHEMATICS	Q. 76 to 93	+3	0
		Q. 94 to 105	+4	0
	BIOLOGY	Q. 106 to 111	+3	0
		Q. 112 to 117	+3	0
		Q. 118 to 120	+5	0

2. Answers have to be marked on the OMR sheet. The Question Paper contains blank spaces for your rough work. No additional sheets will be provided for rough work.
3. Blank papers, clip boards, log tables, slide rule, calculator, cellular phones, pagers and electronic devices, in any form, are not allowed.
4. **Before attempting paper write your OMR Answer Sheet No., Registration Number, Name and Test Centre** in the space provided at the bottom of this sheet.

Note: Please check this Question Paper contains all **120** questions in serial order. If not so, exchange for the correct Question Paper.

OMR Answer Sheet No. : _____

Registration Number : _____

Name of the Candidate : _____

Test Centre : _____

Section-I**APTITUDE TEST****Straight Objective Type**

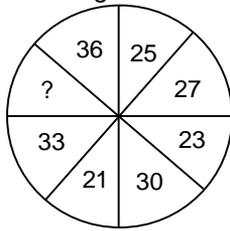
This section contains 45 multiple choice questions numbered 1 to 45. Each question has 4 choices (A), (B), (C) and (D), out of which **ONLY ONE** is correct.

Directions (Q. 1 to 3): In the following questions given below is a sequence in which some letters are missing. From the choices, select the choice that gives the letters that can fill the blanks in the given sequence.

1. a_b__aa_bc_
 (A) abcabc (B) abccba
 (C) abccbc (D) ababcc
2. ab__a__d_bc_a__d
 (A) cdbcabbc (B) cdbcadbc
 (C) cdbacdbc (D) cdabcbcd
3. Vegetable : Chop :: Body : ?
 (A) Cut (B) Amputate
 (C) Peel (D) Bungalow
4. In a certain code MONKEY is XDJMNL. How is 'TIGER' written as?
 (A) QDFHS (B) SDFHS
 (C) SHFDQ (D) UJHFS
5. If + means \times , \times means \div , \div means + and $-$ means \times , then which of the following will be the value of the expression $252 \times 9 - 5 + 32 \div 92 = ?$
 (A) 95 (B) 168
 (C) 192 (D) 200
6. In a garden, there are 10 rows and each row contains 12 mangoes trees. The distance between the two trees is 2 metres and a distance of one metre is left from all sides of the boundary of the garden. The length of the garden is
 (A) 20 m (B) 22 m
 (C) 24 m (D) 26 m
7. Choose the alternative which is closely resembles the mirror image of the given combination.
ANS43Q12
 (A) AN24EQ12 (B) S1Q342NA
 (C) 2NAE4Q21 (D) 12Q4EANS
8. Find the wrong number in the given series.
 2, 3, 4, 6, 12, 12, 48, 24, 250
 (A) 4 (B) 6
 (C) 48 (D) 250

Space for Rough Work

9. Inserting the missing character.



- (A) 19 (B) 22
(C) 32 (D) 35

10. Find the missing character.

B	G	N
D	J	R
G	N	?

- (A) U (B) V
(C) W (D) X

11. A man wears socks of two colours – Black and brown. He has altogether 20 black socks and 20 brown socks in a drawer. Supposing he has to take out the socks in the dark, how many must he take out to be sure that he has a matching pair?

- (A) 3 (B) 20
(C) 39 (D) None of these

12. Find the missing number?

1, 2, 5, 16, 65 _____

- (A) 75 (B) 326
(C) 320 (D) None

13. In a row of girls facing to the North, A is sixteenth from the left end and C is sixteenth from the right end. B who is fourth to the right of A, is fifth to the left of C in the row. How many girls are there in the row?

- (A) 39 (B) 40
(C) 41 (D) 36

14. Ram is 25th from upper side and Shyam is 25th from lower side if the total number of students is 60, then how many students between Ram and Shyam?

- (A) 9 (B) 10
(C) 11 (D) 12

Space for Rough Work

Directions (Q. 15 to 16): Study the following blood relation information carefully and answer the given questions.

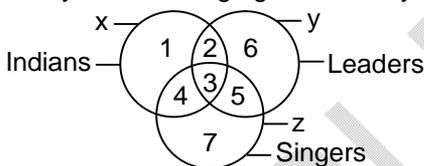
- (i) A \$ B means A is the mother of B
 (ii) A # B means A is the father of B
 (iii) A @ B means A is the husband of B
 (iv) A % B means A is the father of B

15. P @ Q \$ M # T indicates what relationship of P with T?
 (A) Paternal grand mother
 (B) Maternal grand mother
 (C) Paternal grand father
 (D) Maternal grand father
16. If F @ D \$ K # H, then how is F related to H?
 (A) Grandfather
 (B) Sister
 (C) Sister-in-law
 (D) None of these

Directions (Q. 17 to 18): Three of the following four are alike in a certain way and so form a group. Which one does not belong to that group?

17. (A) PSRQ
 (B) CGEF
 (C) JMLK
 (D) VYXW
18. (A) 4 : 63
 (B) 1 : 0
 (C) 5 : 124
 (D) 2 : 15
19. In a certain code, RAHUL is coded as 75, then how is SUMAN coded?
 (A) 65
 (B) 66
 (C) 67
 (D) 68

20. Study the following figure carefully and answer the given question:



Which region denotes Indian leaders who are not singers?

- (A) 2
 (B) 3
 (C) 4
 (D) 5
21. At what angle are the hands of a clock inclined at 25 minute past 5?
 (A) 137.5°
 (B) 150°
 (C) 12.5°
 (D) None

Space for Rough Work

22. Two positions of a dice are shown below. Identify the number at the bottom when the number '3' is at top.



(i)

- (A) 2
(C) 5



(ii)

- (B) 4
(D) 6

23. In a certain code, DESK is written as #\\$52, RIDE is written as %7#\\$. How is RISK written in that code?

- (A) %725
(C) %7#\2

- (B) %752
(D) %7\\$\#

24. In a certain code language

(i) 'PIC TOP BOO' means 'DOGS ARE BEAUTIFUL'

(ii) 'TOP SIG ZAP' means 'DOGS AND CATS'

(iii) 'KIP PIC RUM' means 'MONKEYS ARE MAD'

What is the code for 'BEAUTIFUL'?

- (A) PIC
(C) BOO

- (B) TOP
(D) Can't be determined

25. If South-East becomes North, North-East becomes West and so on. What will West become?

- (A) North-East
(C) South-East

- (B) North-West
(D) South-West

26. Introducing Asha to guests, Bhaskar said, "Her father is the only son of my father." How is Asha related to Bhaskar?

- (A) Daughter
(C) Sister

- (B) Mother
(D) Niece

27. Rohit and Rohan are brothers. Sonia and Sunita are sisters, Rohit's son is Sunita's brother. How is Rohan related to Sonia?

- (A) Uncle
(C) Father

- (B) Maternal Uncle
(D) None

28. What day of the week did 30 June 1974 fall?

- (A) Sunday
(C) Tuesday

- (B) Monday
(D) Wednesday

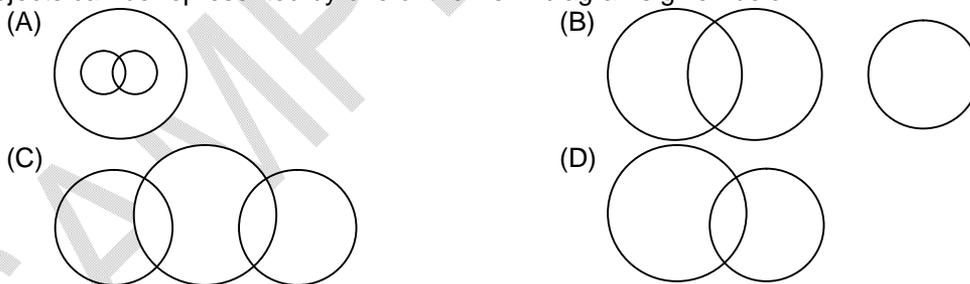
Space for Rough Work

Direction (Q. 29 to 30): In each of the following questions, a word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in the two given matrices. The columns and rows of Matrix I are numbered from 0 to 4 and those of Matrix II from 5 to 9. A letter from these matrices can be represented first by its row and then the column number. You have to identify the correct set for the word given in each question.

Matrix I					Matrix II						
	0	1	2	3	4		5	6	7	8	9
0	D	O	B	A	I	5	W	N	R	M	L
1	O	B	A	I	D	6	N	R	M	L	W
2	B	A	I	D	O	7	R	M	L	W	N
3	A	I	D	O	B	8	M	L	W	N	R
4	I	D	O	B	A	9	L	W	N	R	M

29. ROAD
 (A) 14, 89, 12, 78
 (B) 23, 57, 30, 68
 (C) 23, 57, 30, 68
 (D) 57, 10, 21, 32
30. LAMB
 (A) 68, 21, 58, 34
 (B) 71, 44, 76, 33
 (C) 86, 21, 67, 12
 (D) 75, 30, 80, 20
31. Mohan travels 7 km Eastwards and then he turns right and travelled 3 km and further turns right again and travelled 11 km. How far is he from the starting point?
 (A) 25 km
 (B) 15 km
 (C) 5 km
 (D) None of these
32. Pointing towards a person a man said to a woman. "His mother is the only daughter of your father". How is the woman related to that person?
 (A) Aunt
 (B) Mother
 (C) Son-in-law
 (D) None

Directions (Q. 33 to 36): Each of the questions contains three objects. The relationship among these three objects can be represented by one of the Venn diagrams given below.



33. Boys, Girls, Educated.
34. Teachers, Researchers, Vehicles.

Space for Rough Work

35. Politicians, Agriculturists, Human Beings.

36. Women, Mothers and Parents.

37. Find the Missing number.

- (A) 9
(C) 3

- (B) 6
(D) 7

3	1	4
5	4	7
2	8	?
38	81	74

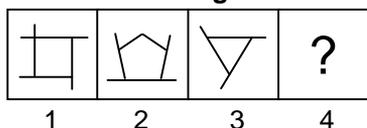
38. A man is facing North-West, he turns 90° in clock-wise direction and 135° anti-clock wise direction. In which direction he is facing now?

- (A) East
(C) North-East

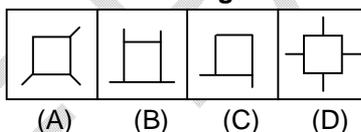
- (B) West
(D) None

39. The second figure in the first unit of the problem figures bears a certain relationship to the first figure. Similarly, one of the figures in the answer figures bears the same relationship to the first figure in the second unit of the problem figures. You are therefore to locate the figure which would replace the question mark.

Problem Figures



Answer Figures



Direction (Q. 40 to 42): Study the following information carefully and answer the given questions:

- (i) B and E are good in dramatic and computer science.
- (ii) A and B are good in computer science and physics.
- (iii) A, D and C are good in physics and history.
- (iv) C and A are good in physics and mathematics.
- (v) D and E are good in history and dramatic.

40. Who is good in physics, history and dramatic?

- (A) A
(C) D

- (B) B
(D) E

41. Who is good in physics, history and mathematics, but not in computer science?

- (A) A
(C) C

- (B) B
(D) D

42. Who is good in computer science, history and dramatic?

- (A) A
(C) C

- (B) B
(D) E

Space for Rough Work

Direction (Q. 43 to 45): Study the following information carefully and answer the given questions:
Eight students A,B,C,D,E,F,G and H are sitting around a circular table for playing a game. Four of them A,B,E and F are not facing the centre. D is third to the left of H, who is fourth to the right of E. A is third to the right of B, who is third to the left of D. F is second to the left of C.

43. How many persons sit between A and B?
(A) one (B) two
(C) three (D) None of these
44. Who among the following sit third to the left of E?
(A) G (B) A
(C) H (D) D
45. What is the position of G with respect to F?
(A) third to the right (B) third to the left
(C) second the right (D) none of these

Space for Rough Work

Section-II**Science and Mathematics****Physics****(Part - A)****Straight Objective Type**

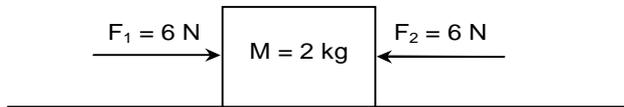
Physics contains 15 multiple choice questions numbered 46 to 60. Each question has 4 choices (A), (B), (C) and (D), out of which **ONLY ONE** is correct.

46. Car comes to rest once its engine is switched off due to :-
 (A) Frictional force of road (B) Gravitational force of earth
 (C) Force of atmospheric pressure (D) None of these.
47. The vibrations of a tuning fork are _____ in nature:-
 (A) Oscillatory (B) Periodic
 (C) Both (A) and (B) (D) None of these.
48. Force between two charged body is called :-
 (A) Gravitational force (B) Frictional force
 (C) Electrostatic force (D) None of these.
49. A push or a pull on an object is called :-
 (A) Pressure (B) Work
 (C) Force (D) Friction
50. Force on a balloon can change its :-
 (A) Mass (B) Shape
 (C) State (D) None of these.
51. Force is a :-
 (A) Vector quantity (B) Scalar quantity
 (C) Non-directional quantity (D) None of these.
52. Unpleasant sounds are called :-
 (A) Vibration (B) Oscillation
 (C) Noise (D) Signal
53. Through which organ, we speak.
 (A) Vocal cords (B) Lungs
 (C) Lips (D) Tongue
54. Unit of pressure is :-
 (A) Newton (B) ms^{-1}
 (C) atm (D) ms^{-2}

Space for Rough Work

55. Relationship between rolling friction and sliding friction is :-
 (A) Rolling friction force = sliding friction force (B) Rolling friction force > sliding friction force
 (C) Rolling friction force < sliding friction force (D) Can not say

56.



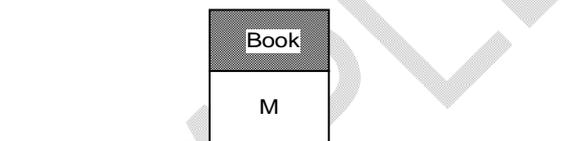
Net force on the block in horizontal direction is :-

- (A) 12 N (B) 6 N
 (C) zero (D) 3 N
57. Force of friction depends on :-
 (A) Nature of surfaces in contact (B) Area of contact
 (C) Magnetic forces around the body (D) None of these.

58. The weight of atmosphere is very large, still we are not crushed, because :-
 (A) Pressure inside our body is equal to atmospheric pressure
 (B) Pressure inside our body < Atmospheric pressure
 (C) Pressure inside our body > Atmospheric pressure
 (D) None of these.

59. If a body makes 80 oscillations in one second, then its frequency of oscillation is :-
 (A) 0.125 sec (B) 80 Hz
 (C) 125 sec (D) 88 Hz

60.



A book of weight 6 N is placed over a block M. If upper surface area of block is 2 cm^2 . Find the pressure exerted by book over the block.

- (A) $3 \times 10^4 \text{ Pa}$ (B) $6 \times 10^4 \text{ Pa}$
 (C) $7 \times 10^4 \text{ Newton}$ (D) $3 \times 10^4 \text{ Newton}$

Space for Rough Work

Chemistry**(Part - B)****Straight Objective Type**

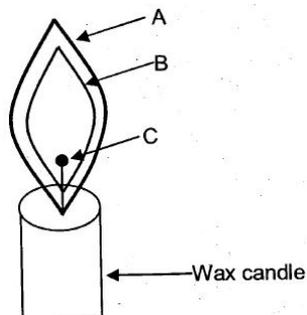
Chemistry contains 15 multiple choice questions numbered 61 to 75. Each question has 4 choices (A), (B), (C) and (D), out of which **ONLY ONE** is correct.

61. The main function of roasting is
(A) To remove the volatile impurities
(B) Oxidation
(C) Reduction
(D) To make slag
62. Which of the following is an ore of aluminium?
(A) Cryolite
(B) feldspar
(C) Bauxite
(D) All of these
63. The fractional distillation of coal tar yields
(A) carbon disulphide
(B) carbon tetrachloride
(C) kerosene oil
(D) benzene
64. In thermite process, the reducing agent is
(A) Al
(B) Zn
(C) C
(D) Na
65. Which of the following gas is known as illuminating gas?
(A) Ethane
(B) Ethene
(C) Ethyne
(D) Propane
66. Which of the following metal is NOT manufactured by electrolysis?
(A) Na
(B) Mg
(C) Al
(D) Fe
67. Which of the following is a linear polymer?
(A) Nylon
(B) Bakelite
(C) Glycogen
(D) Melamine- formaldehyde polymer.
68. Which of the following is a branched polymer?
(A) Low density polythene
(B) Polyester
(C) Nylon
(D) PVC.
69. Terylene is the polyester of:
(A) Hexamethylenediamine and adipic acid
(B) Vinyl chloride and formaldehyde
(C) Melamine and formaldehyde
(D) Ethylene glycol and terephthalic acid.
70. Nylon is a:
(A) Vinyl polymer
(B) Polyamide
(C) Polyester
(D) Polysaccharide.

Space for Rough Work

71. Chloroprene is the repeating unit in
(A) Polystyrene (B) Neoprene
(C) PVC (D) Polythlene

72. The different zones of a candle flame are marked by the letters A,B and C.



Which of the following is correct?

- (A) B is the hottest part of the flame.
(B) C is moderately hot.
(C) A is the hottest part of the flame.
(D) A is moderately hot whereas C is the coldest part.
73. Which of these are natural polymers?
(A) Proteins (B) Starch
(C) Nucleic acid (D) All of these
74. Which one of the following polymer is prepared by condensation polymerization?
(A) Dacron (B) Teflon
(C) Styrene (D) Rubber
75. Orlon is a polymer of
(A) Styrene (B) Tetra fluoro ethylene
(C) Vinyl chloride (D) Acrylonitrile

Space for Rough Work

Mathematics

(Part - C)

Straight Objective Type

Mathematics contains 30 multiple choice questions numbered 76 to 105. Each question has 4 choices (A), (B), (C) and (D), out of which **ONLY ONE** is correct.

76. If $x = \frac{1}{4 - \sqrt{15}}$, $y = \frac{1}{4 + \sqrt{15}}$, then value of $x^3 + y^3$ is

- (A) 486 (B) 439
(C) 488 (D) 476

77. The value of the expression $\sqrt{6 + \sqrt{6 + \sqrt{6 + \dots \text{upto } \infty}}}$ is

- (A) 2 (B) 3
(C) 30 (D) 5

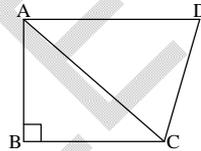
78. Solve: $3(5x - 7) - 2(9x - 11) = 4(8x - 13) - 17$

- (A) $x = 12$ (B) $x = 4$
(C) $x = 2$ (D) $x = -1$

79. If $x^2 + y^2 + z^2 - xy - yz - zx = 0$ then the value of $\frac{x+y}{z}$ is

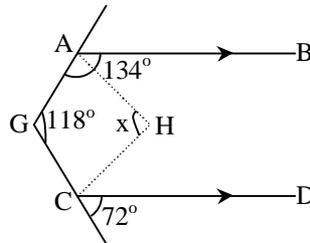
- (A) 2 (B) 1
(C) xy (D) yz

80. In the quadrilateral ABCD $\angle B = 90^\circ$ and $AD^2 = AB^2 + BC^2 + CD^2$. Then $\angle ACD$ is



- (A) 80° (B) 100°
(C) 90° (D) 120°

81. In the adjoining figure $AB \parallel CD$, AH and CH are the bisectors of $\angle A$ and $\angle C$ respectively. Find the measure of $\angle x$.



- (A) 90° (B) 121°
(C) 100° (D) 75°

Space for Rough Work

82. If $x = 3 + 2\sqrt{2}$, then find the value of $x^{\frac{1}{2}} - x^{-\frac{1}{2}}$
 (A) $2\sqrt{2}$ (B) $\sqrt{2}$
 (C) 2 (D) 1
83. If $y = 5 - \sqrt[3]{25} - \sqrt[3]{5}$, then find the value of $y^3 - 15y^2 + 60y + 40$
 (A) 60 (B) 50
 (C) 40 (D) 10
84. Find three consecutive even numbers whose sum is 234.
 (A) 21, 23, 25 (B) 76, 79, 80
 (C) 76, 78, 80 (D) None of these
85. If $3^{2x^2-9x} = (81)^{-1}$, then x is
 (A) $4, \frac{1}{2}$ (B) $2, \frac{1}{4}$
 (C) 2, 1 (D) Both (a) and (b)
86. If $A = \sqrt{7} - \sqrt{6}$ and $B = \sqrt{6} - \sqrt{5}$, then
 (A) $A > B$ (B) $A = B$
 (C) $A < B$ (D) $A \geq B$
87. If $y + \frac{1}{y} = 12$, then $y^3 + \frac{1}{y^3}$ is equal to
 (A) 1680 (B) 1686
 (C) 1692 (D) None of these
88. 3 divided by 5 and multiply by (-6) times (-15) is
 (A) -54 (B) 48
 (C) 54 (D) -48
89. Other name for reciprocal is
 (A) identity element (B) multiplicative inverse
 (C) additive inverse (D) Both (A) and (B)
90. Find $\sqrt{156.25} + \sqrt{1.5625} = ?$
 (A) 125.2 (B) 12.5
 (C) 13.75 (D) 1.375

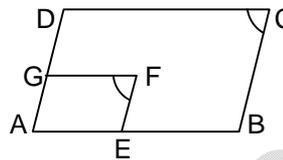
Space for Rough Work

91. The difference between the greatest and smallest fraction amongst $\frac{6}{7}, \frac{8}{9}, \frac{9}{10}, \frac{7}{8}$
- (A) $\frac{2}{63}$ (B) $\frac{3}{70}$
 (C) $\frac{1}{56}$ (D) $\frac{1}{72}$
92. Evaluate $\left[\sqrt{15^2 + 8^2}\right]^3$
- (A) 15625 (B) 4903
 (C) 4913 (D) 49004
93. A number is multiplied by $2\frac{1}{3}$ times itself and then 61 is subtracted from the product obtained. If the final result is 9200, then the number is:
- (A) 36 (B) 63
 (C) 76 (D) 67
94. Which order shows the following rational numbers in ascending order?
 $A = \frac{26}{3}, B = \frac{35}{4}, C = \frac{46}{5}, D = \frac{17}{2}$
- (A) A, B, C, D (B) B, D, A, C
 (C) D, A, B, C (D) D, C, B, A
95. Value of $a^3 + b^3 + c^3 - 3abc$ if $a + b + c = 12$ and $ab + bc + ca = 47$
- (A) 13 (B) 36
 (C) 49 (D) 32
96. $\sqrt{289} \div \sqrt{x} = \frac{1}{5}$, then value of x is
- (A) $\frac{17}{25}$ (B) $\frac{34}{35}$
 (C) 7225 (D) 235
97. Which of the following number is divisible by 9?
- (A) 83715 (B) 9345762
 (C) 917 (D) 9601
98. In a three digit numbers, the hundreds digit is twice the tens digit while the units digit is thrice the tens digit. Also, the sum of its digits is 18. The number is
- (A) 693 (B) 396
 (C) 639 (D) None of these

Space for Rough Work

99. Given that the number $1372x413$ is divisible by 11, where x is a digit, then the value of x is
 (A) 0 (B) 4
 (C) 1 (D) 3

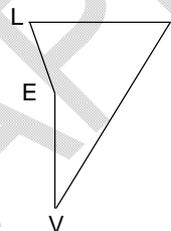
100. In the given figure, ABCD and AEFG are parallelograms. If $\angle DCB = 55^\circ$, then what is the measure of $\angle F$?
 (A) 50° (B) 45°
 (C) 55° (D) 85°



101. The class marks of any interval are given by:

- (A) $\frac{\text{Upper limit} + \text{Lower limit}}{2}$ (B) $\frac{\text{Upper limit} - \text{Lower limit}}{2}$
 (C) $\frac{\text{Lower limit} - \text{Upper limit}}{2}$ (D) Upper limit + Lower limit

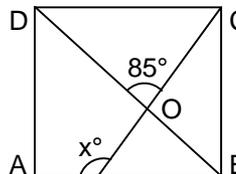
102. In the given figure, a quadrilateral LIVE, $\angle L = 40^\circ$, $\angle I = 60^\circ$, $\angle V = 60^\circ$. Find the $\angle E$. Is this quadrilateral convex or concave?



- (A) 133° , concave (B) 285° , convex
 (C) 200° , concave (D) 133° , convex

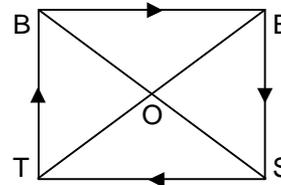
103. ABCD is a square in the given figure, find x .

- (A) 150°
 (B) 130°
 (C) 120°
 (D) None of these



104. In the given figure, BEST is a rectangle in which diagonals BS and TE intersect at O. If $\angle EOS = 50^\circ$, then find $\angle OBT$.

- (A) 56° (B) 45°
 (C) 65° (D) None of these



105. The sides of a rectangle are in the ratio 4 : 5. If the perimeter of the rectangle is 90 cm, then its sides are

- (A) 28, 35 (B) 20, 24
 (C) 20, 25 (D) None of these

Space for Rough Work

Biology (Part - D)

Straight Objective Type

Biology contains 15 multiple choice questions numbered 106 to 120. Each question has 4 choices (A), (B), (C) and (D), out of which **ONLY ONE** is correct.

106. Match the column – A with column – B and choose the correct answer using the code given below the column.

Column – A		Column – B	
(a)	Beans and Peas	(p)	Ploughing
(b)	Tractor	(q)	Plantation crop
(c)	Chilies	(r)	Leguminous plants
(d)	Combine	(s)	Harvesting

(A) (a → s), (b → p), (c → r), (d → q)

(B) (a → r), (b → p), (c → q), (d → s)

(C) (a → p), (b → q), (c → r), (d → s)

(D) (a → r), (b → s), (c → p), (d → q)

107. Animal husbandry involves:

(A) Breeding

(B) Caring

(C) Feeding

(D) All of these

108. Nitrogen is:

(A) Not useful for plants

(B) Important for growth of plants and is taken by all plants from air

(C) Important for growth of plants but only some plants absorb the nitrogen from the air directly

(D) Important for growth of plants but no plant can absorb the nitrogen from the air directly

109. Read the following sentences and give your answer as per the instructions given below:

In the following question, a statement of assertion is given and a corresponding statement of reason is given just below it.

Assertion (A): The last step in the preparation of soil is levelling.

Reason (R): Manure is not nutrient specific.

(A) Both A and R are false

(B) A is true but R is false

(C) R is true but A is false

(D) Both A and R are true

110. Which of the following is correctly matched?

(A) Harvesting – removal of weeds

(B) Emasculation – sowing of seeds

(C) Lodging – loosens the soil

(D) Fallowing – leaving land uncultivated

111. Cholera is adisease whereas common cold is a.....disease.

(A) Viral, bacterial

(B) Bacterial, Viral

(C) Viral, protozoan

(D) None of these

Space for Rough Work

112. Which is the class of organism, living in the body of termites that digests wood cellulose converting it to soluble carbohydrates?
 (A) Bacteria (B) Algae
 (C) Nematoda (D) Protozoa

113. Match the column A with column B and choose the correct answer using the code given below the column:

Column – A		Column – B	
(a)	<i>Rhizobium</i>	(p)	Setting of curd
(b)	<i>Paramecium</i>	(q)	Slipper shaped
(c)	<i>Lactobacillus</i>	(r)	Fixing nitrogen
(d)	Microorganism	(s)	Antibiotic

- (A) (a → s), (b → p), (c → r), (d → q) (B) (a → q), (b → r), (c → p), (d → s)
 (C) (a → p), (b → q), (c → r), (d → s) (D) (a → r), (b → q), (c → p), (d → s)
114. You have observed this, that in rainy season if bread is kept for sometime, blackish rust is deposited on it. What is this?
 (A) Bacteria (B) Fungi
 (C) Algae (D) None of these
115. In the formation of curd, the lactose (milk sugar) of the milk is converted into lactic acid by the action of:
 (A) Algae (B) Virus
 (C) Bacteria (D) None of these

116. Match the column – A with column – B and choose the correct answer using the code given below the column:

Column – A		Column – B	
(a)	Leeuwenhoek	(p)	Fermentation
(b)	Kitasato	(q)	Tiny animalcules
(c)	Alexander Flemming	(r)	Tetanus
(d)	Louis Pasteur	(s)	Antibiotic

- (A) (a → p), (b → q), (c → r), (d → s) (B) (a → q), (b → r), (c → s), (d → p)
 (C) (a → r), (b → p), (c → s), (d → q) (D) (a → s), (b → q), (c → p), (d → r)
117. Which one among the following will maintain organic matter of the soil?
 (A) Protozoans and slime moulds (B) Bacteria and fungi
 (C) Fungi and semiparasites (D) All of the above
118. Pick up the odd statement among the following:
 (A) Coal is a renewable source of energy.
 (B) LPG is an inflammable fuel.
 (C) During incomplete combustion of fuel carbon monoxide is formed.
 (D) Biodiversity differs from place to place.

Space for Rough Work

119. Match the following statement of Column – A with Column – B :

Column – A		Column – B	
(a)	Gir forest	(p)	Endangered
(b)	Chipko Movement	(q)	All the species of plants and animals in a habitat
(c)	Asiatic wild ass	(r)	Gujarat
(d)	Flora and fauna	(s)	Protection of trees

(A) (a → p), (b → q), (c → r), (d → s)

(B) (a → r), (b → s), (c → p), (d → q)

(C) (a → r), (b → s), (c → q), (d → p)

(D) (a → q), (b → r), (c → s), (d → p)

120. Organic matter decayed to a relatively stable, amorphous state formed when soil micro – organisms decompose animals and plant material into elements usable by plants is known as:

(A) Salt

(B) Humus

(C) Coal

(D) Green manure

Space for Rough Work

FIITJEE SAMPLE PAPER – 2018

(Big Bang Edge Test / Talent Recognition Exam)

for students presently in

Class 8

ANSWERS

Paper 1

1.	C	2.	B	3.	B	4.	A
5.	D	6.	C	7.	B	8.	D
9.	A	10.	C	11.	A	12.	B
13.	D	14.	B	15.	C	16.	A
17.	B	18.	D	19.	C	20.	A
21.	C	22.	C	23.	B	24.	C
25.	C	26.	A	27.	A	28.	A
29.	D	30.	A	31.	C	32.	B
33.	C	34.	B	35.	A	36.	D
37.	C	38.	B	39.	C	40.	C
41.	C	42.	D	43.	B	44.	B
45.	A	46.	A	47.	C	48.	C
49.	C	50.	B	51.	A	52.	C
53.	A	54.	C	55.	C	56.	C
57.	A	58.	A	59.	B	60.	A
61.	B	62.	D	63.	D	64.	A
65.	C	66.	D	67.	A	68.	A
69.	D	70.	B	71.	B	72.	C
73.	D	74.	A	75.	D	76.	C
77.	B	78.	C	79.	A	80.	C
81.	B	82.	C	83.	A	84.	C
85.	A	86.	C	87.	C	88.	C
89.	B	90.	C	91.	B	92.	C
93.	B	94.	C	95.	B	96.	C
97.	B	98.	C	99.	D	100.	C
101.	A	102.	C	103.	B	104.	C
105.	C	106.	B	107.	D	108.	D
109.	D	110.	D	111.	B	112.	A
113.	D	114.	B	115.	C	116.	B
117.	B	118.	A	119.	B	120.	B