

# FIITJEE SAMPLE PAPER

## (FIITJEE Talent Reward Exam-2019)



for students presently in  
**Class 6 (Paper 1)**

Time: 3 Hours (9:30 am – 12:30 pm)

**Code 6000**

Maximum Marks: 240

### Instructions:

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

- You are advised to devote 35 Minutes on Section-I, 35 Minutes on Section-II, 50 Minutes on Section-III, 30 Minutes on Section-IV and 30 Minutes on Section-V.
- This Question paper consists of 5 sections. Marking scheme is given in table below:

Section	Subject	Question no.	Marking Scheme for each question	
			correct answer	wrong answer
SECTION – I	APTITUDE	1 to 12	+3	0
		13 to 18	+4	0
SECTION – II	PHYSICS (PART-A)	19 to 22	+2	0
	CHEMISTRY (PART-B)	23 to 26	+2	0
	MATHEMATICS (PART-C)	27 to 31	+2	0
	BIOLOGY (PART-D)	32 to 36	+2	0
SECTION – III	PHYSICS (PART-A)	37 to 48	+1.5	0
	CHEMISTRY (PART-B)	49 to 60	+1.5	0
	MATHEMATICS (PART-C)	61 to 72	+1.5	0
	BIOLOGY (PART-D)	73 to 84	+1.5	0
SECTION – IV	PHYSICS (PART-A)	85 to 87	+3	0
	CHEMISTRY (PART-B)	88 to 90	+3	0
	MATHEMATICS (PART-C)	91 to 93	+3	0
	BIOLOGY (PART-D)	94 to 96	+3	0
SECTION – V	MATHEMATICS (PART-A)	97 to 102	+3	0
	MATHEMATICS (PART-B)	103 to 108	+3	0

- 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.
- Blank papers, clip boards, log tables, slide rule, calculator, cellular phones, pagers and electronic devices, in any form, are not allowed.
- 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.
- See method of marking of bubbles at the back of cover page for question no. 103 to 108.**

**Note:** Please check this Question Paper contains all **108** 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 :** \_\_\_\_\_

For questions **103 to 108**

Numerical based questions single digit answer 0 to 9

**Example 1:**

If answer is 6.

Correct method:

- ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

**Example 2:**

If answer is 2.

Correct method:

- ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

SAMPLE PAPER

**Recommended Time: 35 Minutes for Section – I****Section – I****APTITUDE TEST**

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*This section contains 18 Multiple Choice Questions number 1 to 18. Each question has 4 choices (A), (B), (C) and (D), out of which ONLY ONE is correct.*

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**Directions (Q. 1 to 2):** In each of the following questions, a number series is given with one term missing. Choose the correct alternative that will continue the same pattern and replace the question mark in the given series.

1. 6, 10, 15, 21, 28, ?  
(A) 26 (B) 36  
(C) 24 (D) 35
2. 11, 13, 17, 19, 23, 29, 31, ?  
(A) 24 (B) 33  
(C) 35 (D) 37

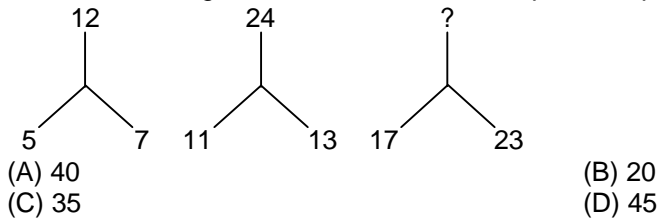
**Directions (Q. 3 to 4):** Three of the following four are like in a certain way and so form a group. Which is the one that does not belong to that group?

3. (A) Hard disk (B) 4 GB RAM  
(C) 32GB storage (D) Satellite
4. (A) 7, 11, 13 (B) 5, 19, 23  
(C) 3, 17, 31 (D) 2, 4, 6
5. Amit rank 6<sup>th</sup> from the top and 14<sup>th</sup> from bottom. How many people are there in the arrangement?  
(A) 18 (B) 19  
(C) 20 (D) 21

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**Space for Rough Work**

6. Find the missing number that comes in the place of question mark (?).



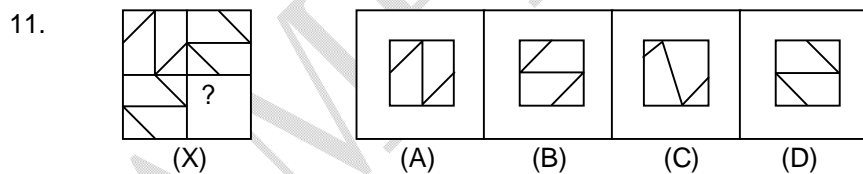
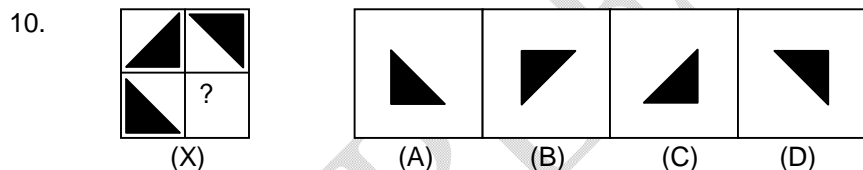
7. If '+' means 'x', '-' means '÷', 'x' means '+' and '÷' means '-', then  $16 - 2 + 2 \times 2 \div 4 = ?$

- (A) 24  
(B) 4  
(C) 14  
(D) 22

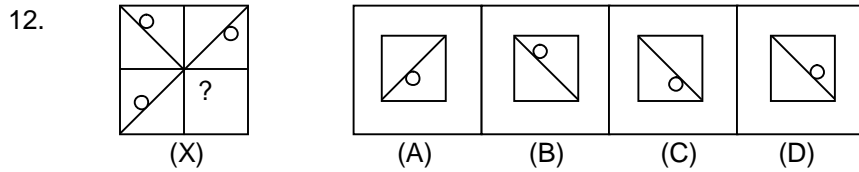
**Directions (Q. 8 to 9):** In each of the following questions arrange the given words in the sequence in which they occur in the dictionary and then choose the correct sequence.

8. 1. Become      2. Burst      3. Blow      4. Breeze      5. Buzz  
 (A) 1, 3, 4, 2, 5  
 (B) 1, 2, 3, 4, 5  
 (C) 5, 4, 3, 2, 1  
 (D) 1, 3, 5, 2, 4
9. 1. Rapid      2. Ready      3. Read      4. Race      5. Right  
 (A) 4, 2, 1, 3, 5  
 (B) 4, 1, 3, 2, 5  
 (C) 5, 3, 1, 2, 4  
 (D) 2, 4, 5, 1, 3

**Directions (Q. 10 to 12):** In each of the following questions, select a figure from amongst the four alternatives, which when placed in the blank space of figure (X) would complete the figure.



*Space for Rough Work*



13. Find the missing number in the following number series:  
 405, 135, 45, 15, ?  
 (A) 10 (B) 20  
 (C) 5 (D) 15

**Directions (Q. 14 to 15):** The number-group in each question below is to be codified according to the following letter codes:

<b>Number</b>	5	1	3	0	2	4	8	7	6	9
<b>Code</b>	X	L	M	P	D	B	E	F	K	J

You have to find out which of the answers (A), (B), (C) or (D) has the correct coded form of the given number-group.

14. 430675  
 (A) BMKPFX (B) BMPKFX  
 (C) BMPKXF (D) BMPFKX
15. 790853  
 (A) FJPEXM (B) FPJEXM  
 (C) FJPEMX (D) FPJEMX

16. In a coded language the given alphabets are written in special codes.

<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>S</b>	<b>U</b>	<b>V</b>	<b>M</b>	<b>N</b>
7	9	1	3	4	2	0	6	5	8

The code 973578 will be

- (A) BADMAN (B) BACMAN  
 (C) DUEMAN (D) MANSDE

**Directions (Q. 17 to 18):** On the basis of the following arrangement give answer of question  
**7 8 9 7 6 5 4 2 8 9 7 2 4 5 9 2 9 7 6 4 7**

17. How many 7s are preceded by 9 and followed by 6:  
 (A) 2 (B) 3  
 (C) 4 (D) 5
18. Which figure has equal frequency?  
 (A) 2, 5, 8 (B) 2, 4, 5  
 (C) 8, 7, 5 (D) 8, 6, 5

*Space for Rough Work*

**Recommended Time: 35 Minutes for Section – II**

**Section – II**

**PHYSICS – (PART – A)**

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*This part contains 4 Multiple Choice Questions number 19 to 22. Each question has 4 choices (A), (B), (C) and (D), out of which **ONLY ONE** is correct.*

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19. Light causes the  
(A) sensation of heat  
(C) sensation of vision  
(B) sensation of sound  
(D) sensation of touch
20. 10 mm is equal to  
(A) 1 cm  
(C) 10 dm  
(B) 1 m  
(D) 10 cm
21. During a total lunar eclipse, the moon is in earth's  
(A) Orbit  
(C) Corona  
(B) Umbra  
(D) Penumbra
22. Sunita complete a long distance run at an average speed of 6 km/hr. If it takes her 3 hours, how far did she run?  
(A) 2 km  
(C) 6 km  
(B) 10 km  
(D) 18 km

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**Space for Rough Work**

## CHEMISTRY – (PART – B)

This part contains 4 Multiple Choice Questions number 23 to 26. Each question has 4 choices (A), (B), (C) and (D), out of which **ONLY ONE** is correct.

23. Spinning is  
 (A) Arranging two sets of yarns together (B) Making yarn from fibres  
 (C) Making fabric from yarn (D) None of these

24. Which among the following do not have fibres in their seeds?  
 (A) Mango (B) Jute  
 (C) Cotton (D) None of these

25. Match the following

Column-I	Column-II
(A) Alluvial soil	(p) Mattresses
(B) Black soil	(q) Jute cultivation
(C) Guinned cotton	(r) Cotton cultivation
(D) Flax fibres	(s) Ropes and bags
(E) Jute fibres	(t) Linen

- (A) A → r, B → s, C → t, D → q, E → p (B) A → q, B → r, C → t, D → s, E → p  
 (C) A → q, B → r, C → p, D → t, E → s (D) A → r, B → q, C → s, D → p, E → t

26. Identify the malleable substance among the following:  
 (A) Wood (B) Stone  
 (C) Glass (D) Aluminium

*Space for Rough Work*

## MATHEMATICS – (PART – C)

This part contains 5 Multiple Choice Questions number 27 to 31. Each question has 4 choices (A), (B), (C) and (D), out of which **ONLY ONE** is correct.

27. Which of the following pairs of integers have 5 as difference?  
(A) 10, 5 (B) – 10, + 5  
(C) 15, – 20 (D) both (B) & (C)
28. Two angles of a triangle are  $72^\circ$  and  $38^\circ$ . Find the third angle.  
(A)  $103^\circ$  (B)  $70^\circ$   
(C)  $90^\circ$  (D)  $54^\circ$
29. In a triangle how many right angles is/are possible?  
(A) 2 (B) 1  
(C) 3 (D) 4
30. Number of edges in a cube is  
(A) 12 (B) 8  
(C) 6 (D) 10
31. The statement for "5 subtracted from thrice a number is 16" can be written as  
(A)  $3(x - 5) = 16$  (B)  $\frac{x - 5}{3} = 16$   
(C)  $3x + 16 = 5$  (D)  $3x - 5 = 16$

Space for Rough Work



## BIOLOGY – (PART – D)

This part contains **5 Multiple Choice Questions** number **32 to 36**. Each question has 4 choices (A), (B), (C) and (D), out of which **ONLY ONE** is correct.

32. A plant that shows tap root system is:  
(A) balsam (B) grass  
(C) maize (D) wheat
33. Water is absorbed by the .....of a plant.  
(A) root (B) stem  
(C) flower (D) seed
34. Which part of the banana plant is not used as food?  
(A) Stem (B) Root  
(C) Flower (D) Fruit
35. The food of butterfly is:  
(A) Small insects (B) Nectar  
(C) Sprouted seeds (D) Blood of other animals
36. Which of the following foods turn blue-black with iodine solution?  
(A) Milk (B) Groundnut  
(C) Tomato (D) Raw potato

**Space for Rough Work**

## Recommended Time: 50 Minutes for Section – III

### Section – III

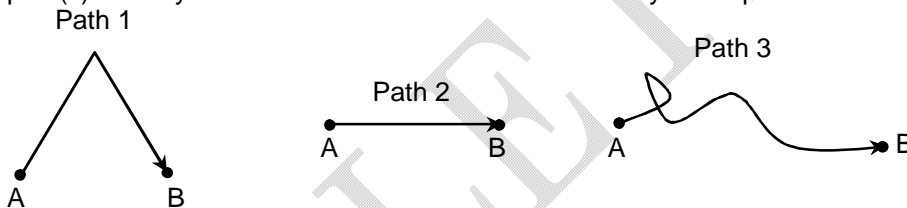
## PHYSICS – (PART – A)

*This part contains 12 Multiple Choice Questions number 37 to 48. Each question has 4 choices (A), (B), (C) and (D), out of which ONLY ONE is correct.*

37. If the angle of incidence of a light ray on a plane mirror is  $45^\circ$ , then the angle of reflection will be  
 (A)  $90^\circ$  (B)  $22^\circ$   
 (C)  $45^\circ$  (D)  $30^\circ$

38. The image of an object as formed by a plane mirror is located  
 (A) In front of the mirror surface  
 (B) On the mirror surface  
 (C) Behind the mirror surface  
 (D) Any of the above, depending on object location

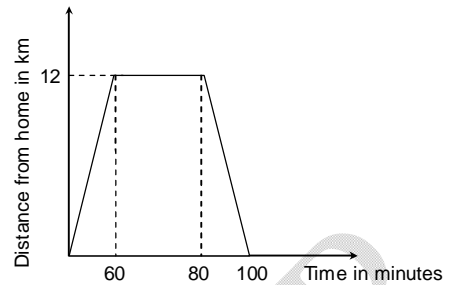
39. Suppose that you run along three different paths from location A to location B. Along which path(s) would your distance travelled be different than your displacement



- (A) Path 1 only (B) Path 2 only  
 (C) Path 1 and Path 2 only (D) Path 1 and Path 3 only
40. A dog is 60 m away while moving at a constant velocity of 10 m/sec towards you. Where is the dog after 4 seconds from you?  
 (A) 40 m (B) 20 m  
 (C) 10 m (D) 60 m

**Space for Rough Work**

41. Margaret went on a cycle ride. The travel graph shows Margaret's distance from home on this cycle ride. How many minutes did she rest?
- (A) 20 minutes  
(B) 10 minutes  
(C) 80 minutes  
(D) 100 minutes



42. For a solar eclipse to occur, the alignment must be  
(A) Sun, earth, moon  
(B) Sun, moon, earth  
(C) Earth, sun, moon  
(D) None of these
43. 500 cm is equal to  
(A) 5 m  
(B) 50 m  
(C) 5 mm  
(D) 500 m
44. A jogger runs a total distance of 120 m in 20 sec. What is his speed?  
(A) 12 m/sec  
(B) 6 m/sec  
(C) 2 m/sec  
(D) 4 m/sec
45. Amir looked up at night sky and observed the things he could see. From the things he could see, he made a list of sources of light in night sky. What should be write down on his list?  
(i) Moon  
(ii) Stars  
(iii) Clouds  
(A) (i) only  
(B) (ii) only  
(C) (i) and (ii)  
(D) (ii) and (iii)
46. Frosted glass is an example of  
(A) A transparent object  
(B) A translucent object  
(C) An opaque object  
(D) None of these
47. A room thermometer is graduated in  
(A) Kelvin  
(B) °C  
(C) gm  
(D) cm
48. A car travels 50 km in 2 hours, what will be its speed?  
(A) 50 km/hr  
(B) 100 km/hr  
(C) 25 km/hr  
(D) 10 km/hr

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**Space for Rough Work**

## CHEMISTRY – (PART – B)

This part contains 12 Multiple Choice Questions number 49 to 60. Each question has 4 choices (A), (B), (C) and (D), out of which **ONLY ONE** is correct.

49. Which one of the substance can float on water?  
(A) Wood (B) Iron  
(C) Aluminium (D) Gold
50. Which of the following is/are used as insulator(s)?  
(A) Wood (B) Plastics  
(C) Paper (D) All of these
51. Which process is described below?  
Solid  $\xrightleftharpoons[\text{Cool}]{\text{Heat}}$  Vapour  
(A) Evaporation (B) Boiling  
(C) Sublimation (D) All of these
52. The process of increasing the rate of sedimentation is called  
(A) Loading (B) Sieving  
(C) Decantation (D) None of these
53. Which of the following is correct?  
(A) Cooking of rice is a physical change  
(B) Eruption of volcano is a periodic change  
(C) Photosynthesis is a physical change  
(D) Rusting of iron is an irreversible change
54. The process used to separate heterogenous mixtures of solids and liquids is called  
(A) Distillation (B) Crystallization  
(C) Filtration (D) Churning
55. When iron blade is fixed to the wooden handle it is fitted  
(A) By heating then cooling (B) By cooling then heating  
(C) By cooling (D) By freezing

**Space for Rough Work**

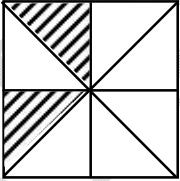
56. LPG cylinders are used in our kitchen in which LPG exists as a liquid. When it comes out it becomes a gas (Change – A) then it burns (Change - B). Choose the correct option :
- (A) Change –A is a chemical change  
(B) Change –B is a chemical change  
(C) Both A & B are chemical change  
(D) None of these
57. \_\_\_\_\_ is a natural, non-desirable and non-reversible change
- (A) Making of rotis  
(B) Drying of wet clothes  
(C) Rusting of iron  
(D) Crystallization of sugar
58. Which of the following is true?
- (A) A permanent change is a physical change  
(B) All physical changes are irreversible  
(C) All temporary changes cannot be reversed  
(D) Heat & light or both are given out or absorbed in chemical changes
59. Looms are used for \_\_\_\_\_.
- (A) Ginning  
(B) Retting  
(C) Weaving  
(D) Knitting
60. Which process requires cooling?
- (A) Condensation  
(B) Freezing  
(C) Both (A) & (B)  
(D) Evaporation

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**Space for Rough Work**

## MATHEMATICS – (PART – C)

This part contains **12 Multiple Choice Questions** number **61 to 72**. Each question has 4 choices (A), (B), (C) and (D), out of which **ONLY ONE** is correct.

61. Given that  $A = (5 \times 3) \times 3$ ,  $B = 6 \times (3 \times 2)$  then  $A - B$  is  
 (A) 9 (B) -9  
 (C) 36 (D) 45
62. Sum of all the angles of a parallelogram is  
 (A)  $180^\circ$  (B)  $540^\circ$   
 (C)  $360^\circ$  (D) none of these
63. Shaded portion represents \_\_\_\_\_ of a whole  
 (A)  $\frac{2}{8}$  (B)  $\frac{1}{8}$   
 (C)  $\frac{3}{8}$  (D)  $\frac{3}{4}$
- 
64. The additive inverse of  $(-3xy - 5z)$  is  
 (A)  $3xy + 5z$  (B)  $\frac{1}{-3xy - 5z}$   
 (C)  $3xy - 5z$  (D)  $-3xy + 5z$
65. In a parallelogram, if all the sides are equal then the parallelogram is known as  
 (A) Trapezium (B) Rectangle  
 (C) Rhombus (D) kite
66. Thrice of a number when increased by 6 gives 24. The number is  
 (A) 6 (B) 7  
 (C) 8 (D) 11
67. Two complementary angles are in the ratio 2 : 3. Find the larger angle between them.  
 (A)  $60^\circ$  (B)  $54^\circ$   
 (C)  $66^\circ$  (D)  $48^\circ$

**Space for Rough Work**

68. Which of the following statements is/are correct?  
(i) whole numbers are closed under addition  
(ii) integers are closed under subtraction  
(iii) whole numbers are closed under multiplication  
(iv) integers are closed under division  
(A) (i), (ii) & (iv) (B) (i), (ii) & (iii)  
(C) (i), (iii) & (iv) (D) (i), (ii), (iii) & (iv)
69. Roman numerals for 991 is  
(A) IXIXI (B) CMXCI  
(C) CMIXIX (D) CMIIC
70. If  $x = 3$ ,  $y = 1$  then  $x^x + x^y + y^y$  is equal to  
(A) 30 (B) 31  
(C) 28 (D) 11
71. What do you call two fractions, whose product is 1?  
(A) additive inverse to each other (B) multiplicative inverse to each other  
(C) only (A) (D) both (A) and (B)
72. If  $m = (-1)^{2000}$  and  $n = (-1)^{2002}$ , then the value of  $\frac{m}{n}$   
(A) -1 (B) 1  
(C) 2000 (D) 2002

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*pace for Rough Work*

## BIOLOGY – (PART – D)

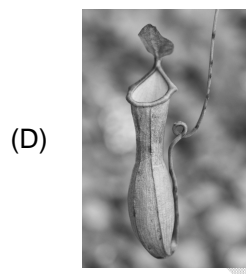
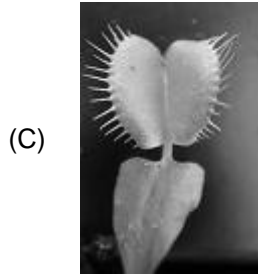
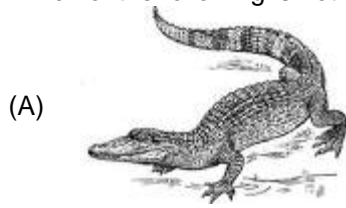
*This part contains 12 Multiple Choice Questions number 73 to 84. Each question has 4 choices (A), (B), (C) and (D), out of which ONLY ONE is correct.*

73. Plant that reserves its food in its root system is:  
(A) Brinjal (B) Bean  
(C) Carrot (D) Sugarcane
74. The food stored in tuberous roots is usually rich in:  
(A) carbohydrates (B) Fats  
(C) Proteins (D) Oils
75. In monocots, .....root system is observed.  
(A) Tap (B) Fibrous  
(C) Both (A) and (B) (D) None of these
76. The name of the sheath that covers root apex is:  
(A) root hairs (B) parent roots  
(C) calyptra (D) root cap
77. A carnivore eats:  
(A) sprouted seeds (B) milk  
(C) green leaves (D) flesh of other animals
78. A house lizard eats:  
(A) oil cakes (B) hay  
(C) small insects (D) grains
79. We get oil from the seeds of:  
(A) Soya bean (B) Groundnut  
(C) Mustard (D) All of these

**Space for Rough Work**



80. Which of the following is not insectivorous?



81. Find the odd one out:

- (A) Carrot  
(C) Radish

- (B) Turnip  
(D) Sugarcane

82. Which of the following is not a source of fats obtained from animals?

- (A) Butter  
(C) Coconut oil

- (B) Cream  
(D) Fish oil

83. Guava is a source of:

- (A) Vitamin A  
(C) Vitamin C

- (B) Vitamin B  
(D) Vitamin D

84. A baby is exposed to sunlight in the morning. This is done to produce .....in the body.

- (A) Vitamin A  
(C) Vitamin D

- (B) Vitamin B  
(D) Vitamin K

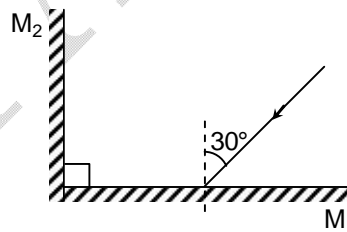
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**Space for Rough Work**

**Recommended Time: 30 Minutes for Section – IV****Section – IV****PHYSICS – (PART – A)**

This part contains 3 Multiple Choice Questions number 85 to 87. Each question has 4 choices (A), (B), (C) and (D), out of which **ONLY ONE** is correct.

85. Georgia is jogging with a velocity of 4 m/sec when she accelerates at  $2 \text{ m/sec}^2$  for 3 seconds. How fast is Georgia running now?  
(A) 4 m/sec (B) 6 m/sec  
(C) 3 m/sec (D) 10 m/sec
86. If you are standing 1.5 m in front of a plane mirror, what is the distance between you and your reflected image?  
(A) 0.2 m (B) 0.5 m  
(C) 1.5 m (D) 3 m
87. A ray of light is incident on a set of two mirrors as shown in the diagram. The angle of incidence for first mirror is  $30^\circ$ . How many times will the ray reflect before it exits the system?  
(A) 1 (B) 2  
(C) 3 (D) 4



Space for Rough Work

## CHEMISTRY – (PART – B)

This part contains 3 Multiple Choice Questions number 88 to 90. Each question has 4 choices (A), (B), (C) and (D), out of which **ONLY ONE** is correct.

88. Cotton plant is \_\_\_\_\_.
- (A) Herb (B) Shrub  
(C) Tree (D) All of these
89. Water has maximum density at
- (A) 0°C (B) 4°C  
(C) 27°C (D) 100°C
90. We inhale / exhale
- (A) Nitrogen / oxygen (B) Carbon dioxide / oxygen  
(C) Oxygen / Carbon-dioxide (D) Argon / Nitrogen

*Space for Rough Work*

SAMPLE PAPER

## MATHEMATICS – (PART – C)

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This part contains **3 Multiple Choice Questions** number **91 to 93**. Each question has 4 choices (A), (B), (C) and (D), out of which **ONLY ONE** is correct.

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91. Krishna covers a certain distance in 150 minutes. He covers half of the distance in  $\frac{4}{15}$  of the time. Find the time taken to cover the remaining distance.  
(A) 110 minutes (B) 120 minutes  
(C) 40 minutes (D) 100 minutes
92. In a game, if we hit a balloon, we get 300 points and if we miss the balloon, we lose 100 points. Raj hits 15 balloons and misses 40 balloons. Find his net score.  
(A) 500 (B) 400  
(C) 300 (D) 200
93. The sum of an angle and one third of its supplementary angle is  $90^\circ$ . Find the angle  
(A)  $45^\circ$  (B)  $90^\circ$   
(C)  $135^\circ$  (D)  $50^\circ$
- 

**Space for Rough Work**

## BIOLOGY – (PART – D)

This part contains 3 Multiple Choice Questions number 94 to 96. Each question has 4 choices (A), (B), (C) and (D), out of which **ONLY ONE** is correct.

94. Prop roots can be found in  
(A) maize (B) coconut  
(C) bean (D) banyan
95. The fruits of this plant are used as spices in the food. Name the plant  
(A) Brinjal (B) Chilly  
(C) Onion (D) Ginger
96. Match the following pairs and choose the correct answer.
- | A                | B            |
|------------------|--------------|
| (i) Spinach      | (a) Roughage |
| (ii) Milk        | (b) Iodine   |
| (iii) Salt       | (c) Iron     |
| (iv) Whole grain | (d) Calcium  |
- (A) (i → d), (ii → a), (iii → c), (iv → b) (B) (i → d), (ii → c), (iii → a), (iv → b)  
(C) (i → c), (ii → a), (iii → d), (iv → b) (D) (i → c), (ii → d), (iii → b), (iv → a)

*Space for Rough Work*

## Recommended Time: 30 Minutes for Section – V

### Section – V

## MATHEMATICS – (PART – A)

*This part contains 6 Multiple Choice Questions number 97 to 102. Each question has 4 choices (A), (B), (C) and (D), out of which ONLY ONE is correct.*

97. Find the missing digit such that the 161\_\_51 is divisible by 11.

- (A) 3 (B) 4  
(C) 5 (D) 0

98. If  $x = 2$ ,  $y = 1$  find the value of  $(x^2 + 2y + xy)$

- (A) 6 (B) 7  
(C) 8 (D) 10

99. If  $45 - [28 - \{36 - (13 + x)\}] = 65$ , then  $x$  is

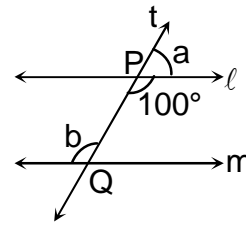
- (A) -25 (B) 25  
(C) 20 (D) -20

100. Value of  $x$  if  $\frac{x}{2} - \frac{x}{3} = 4$ , is

- (A) 24 (B) -24  
(C) 26 (D) -26

101. In the given figure  $\ell \parallel m$ . Find the value of  $b - a$ .

- (A)  $10^\circ$   
(B)  $20^\circ$   
(C)  $15^\circ$   
(D)  $25^\circ$



102. Value of  $4\frac{1}{2} \times 4\frac{1}{3} - 8\frac{1}{3} \div 5\frac{2}{3}$  is

- (A)  $\frac{7}{17}$  (B)  $1\frac{33}{34}$   
(C) 8 (D)  $18\frac{1}{34}$

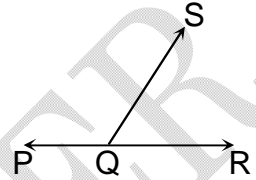
*Space for Rough Work*

## MATHEMATICS – (PART – B)

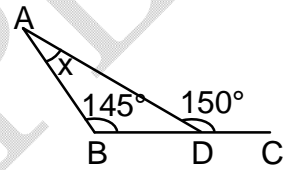
*This part contains 6 Numerical Based Questions number 103 to 108. Each question has Single Digit Answer 0 to 9.*

103. If  $(2n + 5) = 3(3n - 10)$ , then the value of  $n$  is equal to:

104. In the given figure, PQR is a straight line and  $\angle PQS : \angle SQR = 7 : 5$ .  
Find  $\frac{1}{25} \angle SQR$



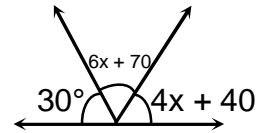
105. In the given figure, find the value of 'x'.



106. The difference between the number of edges and number of faces of a cube is?

107. What is the number of distinct prime factor of the smallest four-digit number?

108. In the given figure, find 'x'.



**Space for Rough Work**

# FIITJEE SAMPLE PAPER – 2019

## (Big Bang Edge Test / Talent Recognition Exam)

for students presently in  
**Class 6 (Paper 1)**  
**ANSWERS**

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