# FIITJEE Big Bang Edge Test - 2022 for students presently in Class 8 (going to 9) (Paper 2)

Time: 3 Hours (2:00 pm – 5:00 pm)

**CODE: 89-2** 

Maximum Marks: 272

#### 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.

- 1. You are advised to devote 55 Minutes on Section-I, 45 Minutes on Section-II, 40 Minutes on Section-III and 40 Minutes on Section-IV.
- 2. This Question paper consists of 4 sections. Marking scheme is given in table below:

Section	Subject	Question no	Marking Scheme	for each question
Section	Subject		Correct answer	Wrong answer
	PHYSICS (PART	<sup>-</sup> -A) 1 to 12	+1	0
SECTION - I	CHEMISTRY (PART	-B) 13 to 24	+1	0
SECTION-1	MATHEMATICS (PART	F-C) 25 to 36	+1	0
	BIOLOGY (PAR	-D) 37 to 48	+1	0
	PHYSICS (PART	-A) 49 to 52	+4	-1
SECTION - II	CHEMISTRY (PART	-B) 53 to 56	+4	-1
	MATHEMATICS (PART	Γ-C) 57 to 60	+4	-1
	BIOLOGY (PAR	T-D) 61 to 68	+4	-1
	PHYSICS (PART	-A) 69 to 76	+3	-1
SECTION – III	CHEMISTRY (PART	F-B) 77 to 84	+3	-1
	BIOLOGY (PART	-C) 85 to 92	+3	-1
	PHYSICS (PART	-A) 93 to 97	+3	0
	CHEMISTRY (PART	-B) 98 to 102	+3	0
SECTION - IV	MATHEMATICS (PART	Г-C) 103 to 107	+3	0
SECTION - IV	PHYSICS (PART	-D) 108 to 110	+3	0
	CHEMISTRY (PART	-E) 111 to 113	+3	0
	MATHEMATICS (PART	Γ-F) 114 to 116	+3	0

3. 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.

4. Blank papers, clip boards, log tables, slide rule, calculator, cellular phones, pagers and electronic devices, in any form, are not allowed.

5. Before attempting paper write your OMR Answer Sheet No., Registration Number, Name and Test Centre in the space provided below.

6. See method of marking of bubbles at the back of cover page for question no. 108 to 116.

Note: Please check this Question Paper contains all 116 questions in serial order. If not so, exchange for the correct Question Paper.

OMR Answer Sheet No	D. :
Registration Number	:
Name of the Candidate	•:
Test Centre	:

For questions 108 to 116 Numerical based questions single digit answer 0 to 9 Example 1:		
Image: Additional conductions and a digit answer 0 to 9         Example 1:         If answer is 6.         Correct method:         If answer is 2.         Correct method:         Image:	For questions	108 to 116
Example 1:         I answer is 6.         O       1       2       4       5       7       8       9         Example 2:         If answer is 2.         Correct method:         O       1       2       3       4       5       7       8       9	Numerical bas	sed questions single digit answer 0 to 9
If answer is 6. Correct method: () () () () () () () () () () () () () (	Example 1:	
Correct method:         ●	If answer is 6.	
	Correct metho	od:
Example 2: If answer is 2. Correct method:		0 1 2 3 4 5 ● 7 8 9
	Example 2:	
	If answer is 2.	
	Correct metho	od:
		0 1 ● 3 4 5 6 7 8 9

### Recommended Time: 55 Minutes for Section – I

## Section – I

## PHYSICS - (PART - A)

#### This part contains 12 Multiple Choice Questions number 1 to 12. Each question has 4 choices (A), (B), (C) and (D), out of which ONLY ONE is correct.

- 1. Pressure at a point in the liquid is : (A) same in all directions (C) grater in the downward direction
- (B) greater in the upward direction
- (D) none of these
- 2. According to which of the following scientist, "an increase in pressure at any point inside a liquid at rest is transmitted equally and without any change in all directions to every other point in the liauid".
  - (A) Boyle

(C) 64 N

3.

(B) Pascal

(C) Archimedes

- (D) Newton
- What is archimede's principle. Choose the most appropriate:
  - (A) buoyant force = weight of object (for sunk object)
  - (B) buoyant force = weight of object (for floating as well as sunk object)
  - (C) buoyant force = weight of replaced water (for only a floating object)
  - (D) buoyant force = weight of replaced water (for all cases)
- 4. Which of the following groups of forces could be in equibrium (A) 3 N, 4 N, 5 N (B) 4N, 5 N, 10 N (C) 30N, 40 N, 80 N (D) 1N, 3 N, 5 N
- A person is standing in an elevator, in which situation he finds his weight greater than actual 5. weight:
  - (A) The elevator moves upwards with constant velocity
  - (B) The elevator moves downwards with constant acceleration
  - (C) The elevator moves downwards with constant velocity
  - (D) The elevator moves upwards with constant acceleration
- Weight of the body in air is 100 N and its appeared weight in water is 36 N then Buoyant force 6. acting on it is (A) 100 N

(B) 36 N
(D) 136 N

- 7. Apparent weight of the body of density (  $\rho$  ) when immersed in a liquid of density ( $\sigma$ ) is (A) Apparent weight = Actual weight + Upthrust (B) Apparent weight > Actual weight (C) Apparent weight = Actual weight - Upthrust (D) (A), (B) and (C) all are correct explanations
- 8. What happens to the coefficient of friction, when the normal reaction is halved (A) Halved (B) Doubled (C) No change (D) Depends on the nature of the surface
- 9. When a body is in equilibrium, its acceleration is (A) unity (B) positive (C) negative (D) zero
- 10. If the weight of the floating body is equal to the buoyant force then body: (A) sinks (B) rises
  - (C) floats

- (D) first floats and then sinks
- 11. A wooden cylinder floats vertically in water with half of its length immersed. The density of wood is
  - (A) Equal of that of water
  - (C) Double the density of water
- (B) Half the density of water
- (D) The question is incomplete
- 12. A force of 10 N is acting on a body of mass 20 kg for 10 seconds. Change in its momentum is (A) 5 kg m/s (B) 200 kg m/s (C) 100 kg m/s (D) 1000 kg m/s

## CHEMISTRY - (PART - B)

This part contains **12 Multiple Choice Questions** number **13 to 24.** Each question has 4 choices (A), (B), (C) and (D), out of which **ONLY ONE** is correct.

	Space for Rough Work		
19.	Which of the following is mixed with rayon to ma (A) Cotton (C) Silk	ke carpets? (B) Jute (D) Wool	
18.	The weakest interparticle forces are present in: (A) Thermosetting polymers (C) Elastomers	(B) Fibres (D) Thermoplastic polymers	
17.	The chemicals that have fruity smell are (A) Alcohols (C) Ketones	(B) Esters (D) Amides	
16.	<ul> <li>Which of the following statements is false?</li> <li>(A) The repeat unit in natural rubber is isoprene</li> <li>(B) Both starch and cellulose are polymer of glue</li> <li>(C) Artificial silk is derived from cellulose</li> <li>(D) Nylon-6,6 is an example of elastomer</li> </ul>	cose	
15.	Which of the following is most abundant metal ir (A) Cu (C) Al	n the earths crust? (B) Zn (D) Fe	
14.	Bromine is (A) A gas at room temperature (C) A liquid at room temperature	<ul><li>(B) A solid at room temperature</li><li>(D) A semi-solid at room temperature</li></ul>	
13.	The most abundant element in the earth's crust. (A) Oxygen (C) Hydrogen	(B) Silicon (D) Aluminium	

### SAMPLE PAPER-BBE-2022-C-VIII (Paper-2)-S&M-6

	Space for Rough Work			
	(A) Silver (C) Iron	(B) Sodium (D) Aluminium		
24.	Metal which can catch fire even without any ext	ernal heat source.		
23.	The most abundant element in the universe is (A) Oxygen (C) Hydrogen	(B) Helium (D) Nitrogen		
22.	Which of the following is not a fibre? (A) Terylene (C) Polyacrylonitrite	(B) Nylons (D) Poly chloroprene.		
21.	Chemical composition of galena (A) HgS (C) PbS	(B) CuS (D) ZnS		
20.	The metal which melts at around room tempera (A) Sodium (C) Germanium	ture is (B) Gallium (D) Potassium		

# MATHEMATICS - (PART - C)

This part contains **12 Multiple Choice Questions** number **25 to 36.** Each question has 4 choices (A), (B), (C) and (D), out of which **ONLY ONE** is correct.

		Space for Rou	igh Work	
	$(A) - \frac{33}{13}$	(B) $\frac{33}{13}$	$(C) - \frac{13}{33}$	(D) $\frac{13}{33}$
31.	$\frac{1}{x+2} + \frac{1}{x+3} = \frac{2}{x+9}$ the	en x is		
	(A) $\frac{11}{29}$	(B) $\frac{1}{30}$	(C) $\frac{30}{1}$	(D) $\frac{1}{204}$
30.	LCM of $\frac{5}{12}$ and $\frac{6}{17}$ is			
29.	The rational number 0 i (A) positive	is (B) negative	(C) both (A) and (B)	(D) none of these
28.	A mixture contains alo mixture, the ratio becor (A) 10 litres	cohol and water in the mes 4 :5. The quantity of (B) 50 litres	ratio 8 :11. If 5 litres of alcohol in the previous n (C) 7.5 litres	alcohol is added to the hixture is (D) 2.5 litres
	(A) 3266	(B) 3628	(C) 3556	(D) 3356
27.	$36.2\overline{8} = \frac{p}{90}$ then p+ 90	=		
	original price of rice per (A) Rs. 20 (C) Rs. 25	r kg is:	(B) Rs. 22.50 (D) Rs. 27.50	
26.	A reduction of 20% in t	he price of rice enables a	a person to buy 3.5 kg me	ore rice for Rs. 385. The
	(C) $\frac{a^3 - 3a^2b}{b}$		(D) $\frac{a^3 - 3}{b^2}$	
	(A) $\frac{a^3-3ab}{b^3}$		(B) $\frac{a^3 - 3ab^2}{b^3}$	
25.	If $x + y = a$ and $xy = b$	b, then the value of $\frac{1}{x^3}$ +	$-\frac{1}{y^3}$ is	



## BIOLOGY - (PART - D)

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.	What are the important steps in the preparation (A) Loosening and sowing (C) Turning and sowing	of soil? (B) Loosening and weeding (D) Turning and loosening
38.	If you were a farmer, which of the following meth viable grains from a heap of grains after harvest (A) Checking the weight of grains. (C) Immersing the grains in water.	nods will you use to separate good quality and ? (B) Checking grains under sunlight for pores. (D) Sowing seeds and waiting for germination.
39.	The process by which amount of nitrogen remain (A) fermentation (C) nitrogen cycle	ns the same in the atmosphere is known as (B) carbon cycle (D) photosynthesis
40.	Which of the following disease is spread due to (A) Tuberculosis (C) Chicken pox	bacteria? (B) Measles (D) Polio
41.	The process of separation of grain from the char (A) tilling (C) spraying	f after harvesting is known as (B) threshing (D) weeding
42.	is used for the production of alcohol a	ind wine.
	(A) Yeast	(B) Mosquito
	(C) Ant	(D) Algae
43.	Which organisms are microscopic and dependen (A) Algae (C) Viruses	nt on host organisms for reproduction? (B) Protozoa (D) Bacteria
	Space for Rou	gh Work

#### SAMPLE PAPER-BBE-2022-C-VIII (Paper-2)-S&M-10

44. Which one of the following is not a method of food preservation? (A) Salting (B) Drying (C) Boiling (D) Pickling 45. Rabi crop is harvested in (A) January (B) March (C) October (D) September The status of algae in the aquatic food chain is 46. (A) consumers (B) producers (C) host (D) small in size 47. Arrange the following agricultural practices in the order in which they are followed. 1. Harvesting 2. Sowing 3. Storage 4. Irrigation 5. Preparation of soil (A)  $1 \rightarrow 2 \rightarrow 3 \rightarrow 4 \rightarrow 5$ (B)  $5 \rightarrow 2 \rightarrow 4 \rightarrow 1 \rightarrow 3$ (C)  $2 \rightarrow 1 \rightarrow 3 \rightarrow 5 \rightarrow 4$  $(D) 5 \rightarrow 3 \rightarrow 4 \rightarrow 1 \rightarrow 2$ 48. Which of the following should be used by a farmer with a large farm to harvest his crops quickly and efficiently?

and emolenaly :			
A) Winnowing machine	(I	B) Com	nbine
C) Sickle	 ()	D) See	d drill 🖉

### **Recommended Time: 45 Minutes for Section – II**

## Section – II

## PHYSICS - (PART - A)

This part contains **4** *Multiple Choice Questions* number **49 to 52**. Each question has 4 choices (A), (B), (C) and (D), out of which ONLY ONE is correct.



## CHEMISTRY - (PART - B)

This part contains **4** Multiple Choice Questions number **53** to **56**. Each question has 4 choices (A), (B), (C) and (D), out of which ONLY ONE is correct.

53. Sulphide ores are generally concentrated by (A) Froth floatation (B) Roasting (C) Gravity Seperation (D) Reduction by carbon. 54. Cellulose is a condensation polymer of (A) Maltose (B) β-glucose (C) a-glucose (D) β-fructose 55. Give the constituent of fluorspar (A) MnO₄ (B) CaF<sub>2</sub> (C)  $Sn(SO_2)_3$ (D) None of these 56. Duralumin is made up of (A) AI, Cu, Mn, Zn (B) Al, Mg, Cu, Zn (C) AI, Mn, Mg, Cu (D) Al, Mg, Zn, Fe Space for Rough Work

# MATHEMATICS - (PART - C)

This part contains **4** *Multiple Choice Questions* number **57** to **60**. Each question has 4 choices (A), (B), (C) and (D), out of which ONLY ONE is correct.



# BIOLOGY - (PART - D)

# This part contains **8 Multiple Choice Questions** number **61 to 68**. Each question has 4 choices (A), (B), (C) and (D), out of which **ONLY ONE** is correct.

61.	What helps in the rise of bread or dosa dough? (A) Heat (C) Growth of yeast cells	(B) Grinding (D) Low pressure		
62.	Grains produced at a large scale can be stored i (A) Silos (C) Granaries	n (B) Jute bags (D) Both (A) and (C)		
63.	Dried leaves can be used to (A) repel insects (C) increase soil fertility	(B) control weeds (D) None of these		
64.	The agricultural instrument used for removal of v (A) sickle (C) seed drill	veed is (B) khurpi (D) plough		
65.	The chemical substances rich in nutrients are ca (A) fertiliser (C) pesticides	lled (B) weedicide (D) herbicides		
66.	While baking cakes, yeast reproduces rapidly an (A) Hydrogen (C) carbon dioxide	nd produces gas. (B) Oxygen (D) nitrogen		
67.	Microorganisms are (A) Unicellular (C) Both (A) and (B)	(B) Multi-cellular (D) None of these		
68.	The disease caused by protozoa is (A) tuberculosis (C) typhoid	(B) polio (D) malaria		
	Space for Rough Work			

# Recommended Time: 40 Minutes for Section – III

## Section – III

## PHYSICS – (PART – A)

This part contains **8 Multiple Choice Questions** number **69 to 76**. Each question has 4 choices (A), (B), (C) and (D), out of which **ONLY ONE** is correct.

69. A grocery shop keeper develops a trick to cheat the customers, He keeps a hidden magnet under one of the iron pan of the beam balance as shown in figure. Then to fulfill his purpose he should place the item to be weighed in:





- 72. The spring balance A reads 2 kg with a block m suspended from it. A balance B reads 5 kg when a beaker filled with liquid is put on the pan of the balance. The two balances are now so arranged that the hanging mass is inside the liquid as shown in figure. In this situation
  - (A) The balance A will read more than 2 kg
  - (B) The balance B will read less than 5 kg
  - (C) The balance A will read less than 2 kg
  - (D) The balances A and B will read 2 kg and 5 kg respectively
- 73. Identify the wrong statement.

The momentum of a body is

- (A) The product of mass and velocity of the body
- (B) The product of force and time
- (C) The product of force and velocity
- (D) Measured in kg m/s in S.I. system
- 74. A body of mass m is kept stationary on a rough inclined plane of inclination  $\theta$ . The magnitude of force acting on the body by the inclined plane is
  - (A) mg

(B) mg sin  $\theta$ 

(C) mg cos  $\theta$ 

(D)  $mg\sqrt{1+\cos^2\theta}$ 

75. A vessel containing water is given a constant acceleration *a* towards the right, along a straight horizontal path. Which of the following diagram represents the surface of the liquid



- 76. A block A of mass 7 kg is placed on a frictionless table. A thread tied to it passes over a frictionless pulley and carries a body B of mass 3 kg at the other end. The acceleration of the system is (given  $g = 10 \text{ ms}^{-2}$ )
  - (A) 100ms<sup>-2</sup> (C) 10ms<sup>-2</sup>

(B) 3ms<sup>-2</sup> (D) 30ms<sup>-2</sup>



m

(>) B

## CHEMISTRY - (PART - B)

This part contains **8 Multiple Choice Questions** number **77 to 84**. Each question has 4 choices (A), (B), (C) and (D), out of which **ONLY ONE** is correct.

77.	Metals, except AI and Zn, react with oxygen to fr (A) Acidic (C) Amphoteric	om oxides. (B) Neutral (D) Basic
78.	The monomeric unit of natural rubber is (A) 1, 3-Butadiene (C) Isoprene	(B) Chloroprene (D) Styrene
79.	Which of the following is a polyamide? (A) Teflon (C) Terylene	(B) Nylon – 6, 6 (D) Bakelite.
80.	Buna-N is a polymer of: (A) 1, 3-butadiene and acrylonitrile (C) Styrene	(B) Acrylonitrile (D) None of these
81.	To make PVC a flexible plastic, the additive used (A) Filler (C) Plasticizer	l is called (B) Antioxidant (D) Stabilizer
82.	Nylon-6,6 is a strong crystalline fibre due to the r (A) H-bonds (C) Vander waal's attractive forces	oresence of intermolecular forces which are: (B) Covalent bonds (D) Ionic bonds
83.	Which of the following do not react readily with w (A) Zinc (C) Potassium	ater? (B) Sodium (D) Copper
84.	Terylene is used in making: (A) Shirts and other dresses (C) In food packaging	<ul><li>(B) Nonstick coating</li><li>(D) None of these</li></ul>
	Space for Roug	h Work

# BIOLOGY - (PART - C)

This part contains **8 Multiple Choice Questions** number **85 to 92**. Each question has 4 choices (A), (B), (C) and (D), out of which **ONLY ONE** is correct.

85.	BHC (Benzene hexachloride) is a (A) weedicide (C) fungicide	<ul><li>(B) fertiliser</li><li>(D) pesticides</li></ul>	
86.	Supply of water to crops at appropriate intervals (A) cultivation (C) harvesting	is called (B) irrigation (D) sowing	
87.	Which instrument is used for spraying weedicide (A) Sprayer (C) Plough	es? (B) Cultivator (D) Combine	
88.	Which of the following is not used as food preser (A) Salt (C) Vinegar	rvatives? (B) Sugar (D) Methane	
89.	Vaccines are made up of: (A) Chemicals (C) Viruses	(B) Weak microorganisms (D) Drugs	
90.	NPK is an example of (A) Weedicide (C) Fertilizer	(B) Manure (D) Insecticide	
91.	Substances that are produced by the body to fig (A) Antibiotic (C) Antibody	ht against the invader is (B) Vaccine (D) Antigen	
92.	The antibiotic penicillin was discovered by (A) Alexander Fleming (C) Robert Hooke	<ul><li>(B) Ernst Boris Chain</li><li>(D) Howard Florey</li></ul>	
	Space for Rough Work		

### **Recommended Time: 40 Minutes for Section – IV**

## Section – IV

## PHYSICS – (PART – A)

This part contains **5** *Multiple Choice Questions* number **93** to **97**. Each question has 4 choices (A), (B), (C) and (D), out of which ONLY ONE is correct.

- 93. A cricket ball of mass 200 gm moving with a speed of 40 m/s is brought to rest by a player in 0.04s. then average force applied by the player
  (A) 16
  (B) 100
  (C) 200 N
  (D) None of these
- 94. Consider the situation shown in the figure below and calculate the tension in the string connecting the 1.0 kg blocks



95. A homogeneous solid cylinder of length L(L < H/2). Cross-sectional area A/5 is immersed such that it floats with its axis vertical at the liquid-liquid interface with length L/4 in the denser liquid as shown in the fig. The lower density liquid is open to atmosphere having pressure  $P_0$ . Then density *D* of solid is given by

(A) 2.00 N

(C) 1.98 N



(A)  $\frac{5}{4}d$  (B)  $\frac{4}{3}d$ (C) Ad (D)  $\frac{d}{5}$ 

96. A block of mass m is placed on a wedge. The wedge can be accelerated in four manners marked as (1), (2), (3) and (4) as shown. If the normal reactions in situation (1), (2), (3) and (4) are  $N_1$ ,  $N_2$ ,  $N_3$  and  $N_4$  respectively then :



97. Two metal blocks A & B each having some amount of +ve charge are placed on a rough horizontal table as shown in the figure. If both of them are at rest then the direction of frictional force acting on A & B is respectively:



(A) Leftwards, Leftwards(C) Rightwards, Rightwards

(B) Leftwards, Rightwards (D) Rightwards, Leftwards

## CHEMISTRY - (PART - B)

This part contains **5** Multiple Choice Questions number **98 to 102**. Each question has 4 choices (A), (B), (C) and (D), out of which ONLY ONE is correct.

98.	Firemen uniforms are usually made up of (A) Metallic fibre (C) Carbon fibre	(B) Melamine fibre (D) Cromic fibre
99.	Which oil is used as frother in froth floatation pro (A) Mustard oil (C) Olive oil	cess? (B) Coconut oil (D) Pine oil
100.	Buna – S is a Synthetic copolymer of (A) Styrene and ethylene (C) Styrene and 1, 3 –butadiene	<ul><li>(B) 1, 3-butadiene and ethylene</li><li>(D) None of these</li></ul>
101.	Aquaregia is mixture of (A) 1 volume of conc. HCl and 3 volumes of conc (B) 1 volume of conc. HNO <sub>3</sub> and 3 volumes of conc (C) Equal volumes of conc. HNO <sub>3</sub> and conc. $H_2$ (D) 1 volume of conc. HNO <sub>3</sub> and 3 volumes of conc	c. $HNO_3$ onc. $HCI$ $SO_4$ . onc. $H_2SO_4$
102.	Which of the following is a fully fluorinated polym (A) Neoprene (C) Thiokal	ier? (B) Polyvinyl chloride (D) Teflon

Space for Rough Work

# MATHEMATICS - (PART - C)

This part contains **5** Multiple Choice Questions number **103** to **107**. Each question has 4 choices (A), (B), (C) and (D), out of which ONLY ONE is correct.



## PHYSICS - (PART - D)

This part contains **3 Numerical Based Questions** number **108 to 110**. Each question has **Single Digit Answer 0 to 9**.

- 108. A body of mass 2 kg moving with a velocity of 3 m/s collides head on with a body of mass 1kg moving in opposite direction with a velocity 4 m/s. After collision two bodies stick together and move with a common velocity of K/3 m/s, find the value of K.
- 109. The pressure of water on the ground floor is 50,000 Pa and at first floor is 10,000 Pa. Find the height of the first floor (in metre). (Take: density of water = 1000 kg m<sup>-3</sup>,  $g = 10 \text{ m s}^{-2}$ )
- 110. A constant retarding force of 40 N is applied to a body of mass 20 kg moving initially with a speed of 16 m/s. How long does the body takes to stop?

## CHEMISTRY - (PART - E)

This part contains **3 Numerical Based Questions** number **111 to 113**. Each question has **Single Digit Answer 0 to 9**.

- 111. In the given elements how many of them are semi-metals C, Si, P, Ge, As, S, Cl, Sb, Ne
- 112. In Epsom salt MgSO<sub>4</sub>.XH<sub>2</sub>O. What is the value of X?
- 113. In the given properties how many belongs to metals: Ductility, Conductivity, Brittle, Low B.P. and M.P. Lustre, Non-sonorous, Dense, Electropositive

# MATHEMATICS - (PART - F)

This part contains **3 Numerical Based Questions** number **114 to 116**. Each question has **Single Digit Answer 0 to 9**.

114. If 
$$\frac{\sqrt{x+4} + \sqrt{x-4}}{\sqrt{x-4}} = 2$$
 then find x  
115. If  $a+b+c=0$ , then the value of  $\left(\frac{a+b}{c} + \frac{b+c}{a} + \frac{c+a}{b}\right)\left(\frac{a}{b+c} + \frac{b}{c+a} + \frac{c}{a+b}\right)$  is x. Find x  
116.  $\sqrt{2\sqrt{2\sqrt{2}}} =$   
Space for Rough Work

# FIITJEE Big Bang Edge Test - 2022 for students presently in Class 8 (going to 9) (Paper 2) SAMPLE PAPER ANSWER KEY

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