FIITJEE ADMISSION TEST- 2021

for students of

Class 8 Paper 2

Time: 3 Hours (1:45 pm - 4:45 pm)

Code | 8008

Maximum Marks: 234

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 60 Minutes on Section-I, 60 Minutes on Section-II and 60 Minutes on Section-III.
- 2. This Question paper consists of 3 sections. Marking scheme is given in table below:

Section Subject		Question no.	Marking Scheme for each question		
Section	Subject		Question no.	correct answer	wrong answer
	PHYSICS	(PART-A)	1 to 15	+1.5	0
SECTION I	CHEMISTRY	(PART-B)	16 to 30	+1.5	0
SECTION - I	MATHEMATICS	(PART-C)	31 to 45	+1.5	0
	BIOLOGY	(PART-D)	46 to 60	+1.5	0
	PHYSICS	(PART-A)	61 to 66	+3	-1
SECTION - II	CHEMISTRY	(PART-B)	67 to 72	+3	-1
SECTION - II	MATHEMATICS	(PART-C)	73 to 78	+3	-1
	BIOLOGY	(PART-D)	79 to 84	+3	–1
CECTION III	MATHEMATICS	(PART-A)	85 to 96	+3	0
SECTION – III	MATHEMATICS	(PART-B)	97 to 108	+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 at the bottom of this sheet.
- 6. See method of marking of bubbles at the back of cover page for question no. 97 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	: <u></u>
Test Centre	:

For questions 97 to 108 Numerical based questions single digit answer 0 to 9 Example 1: If answer is 6. Correct method: 0 1 2 3 4 5 6 7 8 9 Example 2: If answer is 2. Correct method: 0 1 2 3 4 5 6 7 8 9

Recommended Time: 60 Minutes for Section - I

Section - I

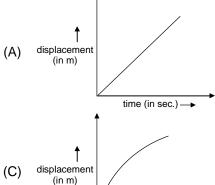
PHYSICS - (PART - A)

This part contains **15** Multiple Choice Questions number **1** to **15**. Each question has 4 choices (A), (B), (C) and (D), out of which **ONLY ONE** is correct.

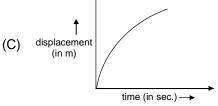
1.	313 K = °F (fill the correct option in the b (A) 99 (C) 281	olank). (B) 52 (D) 104
2.	A cyclone is called a in the American Co (A) Hurricane (C) Tornado	ontinent. (B) Typhoon (D) Thunderstorm
3.	If velocity – time graph of a body is parallel to the (A) is at rest (B) is moving with constant speed (C) is moving with uniform non-zero acceleration (D) None of these	
4.	The ratio of magnitude of displacement distance	
	(A) is always < 1	(B) is always = 1
	(C) is always > 1	(D) may be ≤ 1
5.	5 g of copper was heated from 20°C to 80°C. For (specific heat capacity of Copper is 0.092 cal gradient) (A) 27.6 cal (C) 29.5 cal	How much heat energy was used to heat copper? $(^{\circ}C^{-1})$ (B) 0.0276 cal (D) 2.76 cal

AT-2122-(SAMPLE PAPER)-C-VIII (Paper-2)-S&M-4

6. Which of the following graph represents uniform velocity



(B) displacement (in m) time (in sec.) -



- (D) velocity (in m/s) time (in sec.)
- 7. If a particle covers equal distances in equal time intervals, it is said to
 - (A) be at rest

- (B) moving with uniform velocity
- (C) is moving with uniform speed
- (D) moving with uniform acceleration
- 41°F = ____°C (fill the correct option in the blank). 8.
 - (A) 9

(B) 32

(C)5

- (D) None of these
- 9. The value of temperature at which both Celsius and Fahrenheit scales read same
 - (A) 10 degree

(B) 0 degree

(C) -10 degree

- (D) -40 degree
- A car travels 30 km at a uniform speed of 40 km/h and next 30 km at a uniform speed of 20 km/h. 10. Its average speed is
 - (A) 30 km/h

(B) 32 km/h

(C) $26\frac{2}{3}$ km/h

(D) $28\frac{3}{4} \, \text{km/h}$

- 11. A body covers the first half of total distance with a speed v and the second half in double the time taken for first half. The average speed for whole journey is
 - (A) v

(B) $\frac{v}{2}$

(C) $\frac{2v}{3}$

- (D) $\frac{3v}{2}$
- 12. How much heat is absorbed by a 20 g granite piece as energy from the sun causes its temperature to change from 10°C to 29°C (specific heat capacity of granite is 0.1 cal g^{-1} °C⁻¹)
 - (A) 19 cal

(B) 38 cal

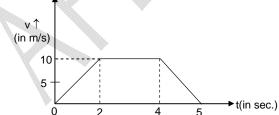
(C) 380 cal

- (D) 3.8 cal
- 13. An athlete takes 40 second to move on a circular path of diameter 200 m. What will be his displacement after 2 minutes 20 seconds.
 - (A) 100 m

(B) 200 m

(C) zero

- (D) 400 m
- 14. From the given velocity-time graph find the displacement of particle in duration from t=0 to t=5 sec.



- (A) 40 m
- (B) 50 m
- (C) 35 m
- (D) 75 m
- 15. A body goes from a point A to point B 150 m apart in 30 second and return back to A in 20 second. The average velocity of the body for whole journey (in m/s) is
 - (A) Zero

(B) 12.5

(C) 6

(D) None of these

CHEMISTRY - (PART - B)

This part contains **15** Multiple Choice Questions number **16** to **30**. Each question has 4 choices (A), (B), (C) and (D), out of which **ONLY ONE** is correct.

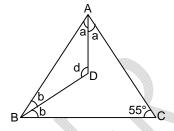
16.	Which one among the following is a wool yieldir (A) Horse (C) Alpaca	ng animal? (B) Cow (D) Pony
17.	Which is NOT a natural colour of sheep hairs? (A) Blue (C) Brown	(B) Black (D) White
18.	Find the odd one out of the following? (A) Kosa (C) Tussar	(B) Mooga (D) Pashmina
19.	Which process is involved in reeling the silk? (A) Taking out silk fibres (C) Spinning the silk fibres	(B) Winding the silk fibres (D) Making the silk fibres
20.	What can be the maximum length of continuous (A) 9 m (C) 900 m	silk fibre obtained from one cocoon? (B) 90 m (D) 9000 m
21.	The natural indicator litmus is extracted form (A) hibiscus (C) lichens	(B) amla (D) ferns
22.	What is the colour of turmeric in basic solution? (A) Yellow (C) Blue	(B) Red (D) Purple
23.	Which salt is formed when ammonium hydroxide (A) Ammonium chloride (C) Calcium nitrate	e is neutralized by nitric acid? (B) Ammonium nitrate (D) Calcium chloride

24.	In which one of the household products, ammor (A) Window cleaners (C) Dish washers	na is found? (B) Toilet cleaners (D) Detergents
25.	Ant bites are treated with a solution of (A) vinegar (C) lemon juice	(B) common salt (D) calamine
26.	What type of change is rusting of iron? (A) Useful change (C) Chemical change	(B) Reversible change (D) Fast change
27.	What is baking soda chemically? (A) Sodium carbonate (C) Calcium carbonate	(B) Sodium hydrogen carbonate (D) Calcium hydrogen carbonate
28.	Ozone absorbs ultraviolet radiation of the sun at (A) oxygen (C) water	nd breaks down into (B) hydrogen (D) nitrogen
29.	Which acid is added to water during crystallizati (A) Nitric acid (C) Sulphuric acid	on of copper sulphate? (B) Hydrochloric acid (D) Carbonic acid
30.	A log of wood is cut into pieces. The wooden p that took place are respectively. (A) chemical and chemical (C) chemical and physical	ieces are burnt in a bonfire. The type of changes (B) physical and physical (D) physical and chemical

MATHEMATICS - (PART - C)

This part contains 15 Multiple Choice Questions number 31 to 45. Each question has 4 choices (A), (B), (C) and (D), out of which ONLY ONE is correct.

- 31. What is the value of $\angle d$ in the given figure?
 - (A) 107.5°
 - (B) 120°
 - (C) 200°
 - (D) 117.5°



- 32. The property represented by $a \times (b + c) = a \times b + a \times c$ is
 - (A) commutative property

(B) associative property

(C) distributive property

- (D) none of these
- 33. The attendance of a class of 45 boys for 10 days is given as 40, 42, 30, 35, 45, 44, 41, 38, 44 and 41 then the mean attendance of the class is
 - (A) 39

(B) 40

(C) 41

- (D) 43
- 34. Find the value of $124 \times 4 3 + 118 \div 2$?
 - (A) 552

(B) 496

(C) 553

- (D) -553
- 35. $\frac{1}{6} + \frac{1}{12} + \frac{1}{20} + \frac{1}{30} + \dots + \frac{1}{9900} = 3$
 - (A) $\frac{39}{100}$

(B) $\frac{49}{100}$

(C) $\frac{59}{100}$

(D) $\frac{69}{100}$

- The product of two numbers is $15\frac{5}{6}$. If one of the numbers is $6\frac{2}{3}$. Find the other. 36.
 - (A) $1\frac{3}{8}$

(C) $3\frac{3}{8}$

- (B) $2\frac{3}{8}$ (D) $4\frac{3}{8}$
- If 6(2a 1) + 8 = 14, then what is the value of $a^{51} + a^{101} = ?$ 37.

(A) 1 (C) 3

- (B) 2 (D) 4
- The mean of first five prime numbers is 38.
 - (A) 3

(B) 3.6

(C) 7

- (D) 5.6
- If 20 is added to four times a certain number, the result is 5 less than five times the number. Then 39. the number is:
 - (A) 10

(B) 15

(C) 20

- (D) 25
- Which number is equal to $\left(\frac{0.1}{0.01} + \frac{0.01}{0.1}\right)$? 40.
 - (A) 10.1 (C) 1.01

(B) 1.10

(D) 10.01

AT-2122-(SAMPLE PAPER)-C-VIII (Paper-2)-S&M-10

41.	A number is multiplied by 6 and 12 is added to (A) –12 (C) 12	the product. The result is 84. Then the number is (B) 72 (D) -72
42.	Which of the following angles is 20° less than it (A) 100° (C) 55°	s supplement? (B) 35° (D) 80°
43.	If one angle of a triangle is 75° and the other ar (A) 42°, 63° (C) 45°, 60°	ngles are in the ratio 2 : 3. The angles are (B) 52°, 53° (D) 35°, 70°
44.	In the given figure, it is given that $\ell \parallel 1$ transversal. Then the value of x is (A) 130° (B) 50° (C) 120° (D) None of these	m, t is a $t \sim 50^{\circ}$ $t \sim 10^{\circ}$ $t \sim 10$
45.	The length of rectangle is 3 cm greater than breadth of rectangle is (A) 20 cm (C) 10 cm	its breadth. The perimeter is 46 cm then find the (B) 23 cm (D) 13 cm

BIOLOGY - (PART - D)

This part contains **15** Multiple Choice Questions number **46** to **60**. Each question has 4 choices (A), (B), (C) and (D), out of which **ONLY ONE** is correct.

46.	Which of the following is the correct matching of (A) Stomach: Carbohydrate digestion. (C) Liver: Protein digestion	the site of action on the given substrate. (B) Small Intestine: Absorbs digested food. (D) Both (B) & (C)
47.	Which of the following briefly describes the dese (A) Hot and humid (C) Hot and dry	rt climate? (B) Cool and humid (D) Hot and wet
48.	Which of the following animal can breathe through (A) Fish (C) Cockroach	gh skin as well as through lungs? (B) Mammal (D) Frog
49.	Fungus is often seen growing on the bread indic (A) Herbivorous (C) Chemoautotrophic	eating their mode of nourishment as (B) Mixotrophic (D) Saprophytic
50.	When the rate of photosynthesis is equal to the (A) Transpiration (C) Transportation	rate of respiration, it is called (B) Compensation point (D) Photosynthesis
51.	Major utility of breaking food into small bits durin (A) to reduce surface area of food (B) to increase surface area of food for enzyme (C) just to enjoy the taste of food (D) none of the above	
52.	The rate of photosynthesis is least in (A) Red light (C) Yellow light	(B) Green light (D) Orange light

AT-2122-(SAMPLE PAPER)-C-VIII (Paper-2)-S&M-12

53.	Smoking damages the lungs & can cause (A) Cancer (C) Pneumonia	(B) Common cold (D) Scurvy
54.	Exchange of gases through lungs is called (A) Cutaneous respiration (C) Both (A) and (B)	(B) Pulmonary respiration (D) None of these
55.	Find the odd one out. (A) Nasal cavity (C) Oesophagus	(B) Nostrils (D) Trachea
56.	The leaf is the food factory of the plant. Match th Column – I	e columns keeping this in mind: Column – II
	 (a) Sunlight (b) Glucose (c) Carbon dioxide and water (d) Oxygen (A) (a)→(ii), (b)→(i), (c)→(iv), (d)→(iii) (C) (a)→(iii), (b)→(ii), (c)→(iv), (d)→(i) 	(i) End product (ii) Raw materials (iii) By product (iv) Power (B) (a) \rightarrow (iv), (b) \rightarrow (i), (c) \rightarrow (ii), (d) \rightarrow (iii) (D) (a) \rightarrow (i), (b) \rightarrow (ii), (c) \rightarrow (iii), (d) \rightarrow (iv)

- 57. The trunk of an elephant is a modification of the:
 - (A) upper lip and nose

(B) lower lip and nose

(C) lower jaw and nose

(D) none of these

58. Match the columns A and B:

Column – I		Column – II	
(A)	Equatorial	(i)	deciduous trees
(B)	Tropical	(ii)	mosses
(C)	Cool temperature	(iii)	broad – leaved evergreen trees
(D)	Polar	(iv)	cacti
(E)	Desert	(v)	conifers

- (A) (A) \rightarrow (iii), (B) \rightarrow (i), (C) \rightarrow (v), (D) \rightarrow (ii), (E) \rightarrow (iv)
- (B) (A) \rightarrow (i), (B) \rightarrow (ii), (C) \rightarrow (iii), (D) \rightarrow (iv), (E) \rightarrow (v)
- (C) (A) \rightarrow (iii), (B) \rightarrow (ii), (C) \rightarrow (i), (D) \rightarrow (iv), (E) \rightarrow (v)
- (D) (A) \rightarrow (ii), (B) \rightarrow (i), (C) \rightarrow (iii), (D) \rightarrow (iv), (E) \rightarrow (v)
- 59. The amount of rainfall a place gets depends on:
 - (A) its closeness to the sea

- (B) winds
- (C) the presence of mountains
- (D) all of these
- 60. The five steps of holozoic nutrition are given, put them in the correct order:
 - i. Assimilation
 - ii. Ingestion
 - iii. Egestion
 - iv. Digestion
 - v. Absorption
 - (A) i iv iii v ii

(B) ii - v - iii - i - iv

(C) ii - iv - v - i - iii

(D) iv -i - v - ii - iii

Recommended Time: 60 Minutes for Section - II

Section - II

PHYSICS - (PART - A)

This part contains **6 Multiple Choice Questions** number **61 to 66.** Each question has 4 choices (A), (B), (C) and (D), out of which **ONLY ONE** is correct.

	(A) 62 kcal (C) 72 kcal	(B) 64 kcal (D) 10 kcal
66.		ge 100 g of ice at 0°C to steam at 100°C. Given ecific heat of water = 1 cal g^{-1} °C $^{-1}$; latent heat of
65.	When 400 Joule of heat is given to 100 g sample specific heat of metal is n \times 50 J kg ⁻¹ °C ⁻¹ then find (A) 2 (C) 5	e of a metal, its temperature increased by 20°C. If nd the value of n (B) 3 (D) 4
	find value of x. (A) 11 (C) 5	(B) 3 (D) None of these
	takes 20 minutes to reach the school. If average	ge velocity of boy during the walk is $\frac{x}{12}$ m/s then
64.	A boy has to go 500 m due north, 400 m due e	ast and 200 m due south to reach his school. He
	(C) $\frac{1}{5}$	(D) 35
63.	the ratio of its maximum speed to its average sp (A) 5	kes 10 hours to cover a distance of 350 km. Find eed. (B) 2
62.		ked 15° and 25° and steam points marked as 75° neasures the temperature of a bath as 60° on it, to measure the temperature of the same bath? (B) 30° (D) 50°
61.		ne third of the total distance with speed of 3 m/s, interval of time, with a speed of 4 m/s for half the . The average speed during the motion is (B) 6 m/s (D) 5 m/s

CHEMISTRY - (PART - B)

This part contains **6 Multiple Choice Questions** number **67 to 72**. Each question has 4 choices (A), (B), (C) and (D), out of which **ONLY ONE** is correct.

67.	The element that burns with dazzling white flam (A) magnesium (C) chromium	e is (B) sulphur (D) phosphorus
68.	The acid which consists of two carbon atoms in (A) formic acid (C) carbonic acid	its molecule is (B) acetic acid (D) all the three
69.	Virgin wool is obtained from (A) rabbit (C) lamb	(B) calf (D) goat
70.	Which process is NOT included while spinning v (A) Combing (C) Straightening	wool? (B) Rolling (D) Reeling
71.	Proteins that build part of our body cells are mad (A) amino acids (C) inorganic acids	de of (B) fatty acid (D) antacids
72.	CNG (compressed natural gas) and LPG (lique fuels. The main constituents of these fuels are re (A) butane and methane (C) methane and methane	efied petroleum gas) are the two commonly used espectively. (B) methane and butane (D) butane and butane

MATHEMATICS - (PART - C)

This part contains 6 Multiple Choice Questions number 73 to 78. Each question has 4 choices (A), (B), (C) and (D), out of which **ONLY ONE** is correct.

73. Solve for x:
$$\frac{x+2}{6} - \left[\frac{11-x}{3} - \frac{1}{4} \right] = \frac{3x-4}{12}$$

(A)
$$\frac{6}{11}$$

(B) 10

(D) 11

74. If
$$\frac{x}{4} + \frac{1}{2} = 4$$
 then $x^3 - x^2 + 1 = ?$

(B) 2559

(D) 2569

75. Which of the following is
$$\left(\frac{1}{5}\right)$$
th of its complement?

(A)
$$18^{\circ}$$

(B) 15°

(D) 75°

76. If
$$3(x-3)=5(2x+1)$$
 then $x^5+\frac{1}{x^5}=?$

(A)
$$-\frac{1024}{32}$$

(C)
$$-\frac{1026}{32}$$

(A) 0.64

(B) 0.65

(C) 0.66

(D) 0.67

78. Two complementary angles are in the ratio 7:8. The angles are

(A) 30°, 60°

(B) 40°, 50°

(C) 42°, 48°

(D) 27°, 63°

BIOLOGY - (PART - D)

This part contains **6 Multiple Choice Questions** number **79 to 84**. Each question has 4 choices (A), (B), (C) and (D), out of which **ONLY ONE** is correct.

- 79. Which of the following statements are correct?
 - (i) The desert plants have scale- or spine- like leaves to reduce the loss of water
 - (ii) In absence of photosynthesis, life is possible on earth
 - (iii) Desert plants have green stems which carry out photosynthesis
 - (iv) Plants have chlorophyll in leaves which imparts yellow colour to plant

- 80. CO₂ in the atmosphere remains relatively constant because
 - (A) CO₂ is never used
 - (B) CO₂ is converted to CaCO₃
 - (C) Bacteria use up CO₂
 - (D) CO₂ released during respiration is balanced by CO₂ used during photosynthesis
- 81. Sukriti went to a wildlife sanctuary where she saw dense vegetation of trees, shrubs, herbs and also a variety of animals like monkeys, birds, elephants, snakes, frogs, etc. The most likely location of this sanctuary is in the

(A) Temperate region

(B) Tropical region

(C) Polar region

(D) Coastal region

- 82. The cells lining the stomach walls are protected from damage by HCI because
 - (A) HCI is not acidic
 - (B) Cells are not affected at all by HCI, they are resistant
 - (C) HCl is not present in stomach
 - (D) Cells are covered with a layer of mucus.
- 83. If catabolic means break down of molecules and endergonic means use of energy to complete the process. Keeping this in mind, which of the following statement is not true?
 - (A) Photosynthesis is a catabolic process
 - (B) Respiration is a catabolic process
 - (C) Photosynthesis is an endergonic process
 - (D) Respiration is not an endergonic process

84. Match the following:

Column – I		Column – II		
	(a)	Musk oxen	(i)	Strong sense of smell
	(b)	Lion	(ii)	Polar region
	(c)	Elephant	(iii)	Bharatpur, Rajasthan
Ī	(d)	Siberian crane	(iv)	Thick skin, sensitive hearing

(A) (a) \rightarrow (iv), (b) \rightarrow (ii), (c) \rightarrow (i), (d) \rightarrow (iii) (B) (a) \rightarrow (iv), (b) \rightarrow (i), (c) \rightarrow (ii), (d) \rightarrow (iii) (C) (a) \rightarrow (ii), (b) \rightarrow (iv), (c) \rightarrow (i), (d) \rightarrow (ii) (D) (a) \rightarrow (i), (b) \rightarrow (ii), (c) \rightarrow (iv), (d) \rightarrow (ii)

Recommended Time: 60 Minutes for Section - III Section - III

MATHEMATICS - (PART - A)

This part contains 12 Multiple Choice Questions number 85 to 96. Each question has 4 choices (A), (B), (C) and (D), out of which ONLY ONE is correct.

- 85. Find the angles of a triangle which are in the ratio 3:4:5.
 - (A) 45°, 60°, 75°

(B) 30°, 60°, 90°

(C) 35°, 75°, 70°

(D) None of these

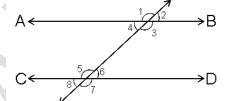
86. In the given figure AB || CD and $\angle 2 = (3x - 10)^{\circ}$, $\angle 8 =$ $(5x - 30)^{\circ}$, then find the value of $\angle 2$ and $\angle 8$ are

(A) 100°, 100°

(B) 20°, 20°

(C) 40°, 90°

(D) 60°, 60°



87. The sum of two angles in a triangle is 95° and their difference is 25°. Then the angles of the triangle.

(A) 75°, 50°, 55°

(B) 85°, 65°, 30°

(C) 50°, 45°, 85°

(D) 60°, 35°, 85°

88. In the given figure, If AB || CD and AC || DE then ∠a +

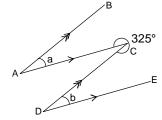
∠b is equal to

(A) 70°

(B) 120°

(C) 100°

(D) 115°

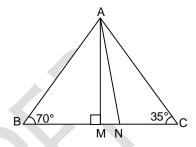


- 89. If an unbiased dice thrown one time, then find the probability of getting a prime number.
 - (A) $\frac{1}{2}$

(B) $\frac{1}{3}$

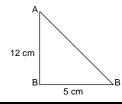
(C) $\frac{1}{4}$

- (D) $\frac{1}{6}$
- 90. In the adjoining figure AM \perp BC and AN is the bisector of \angle BAC. If \angle B = 70° and \angle C = 35° then \angle MAN is.
 - (A) 17.5°
 - (B) 27.5°
 - (C) 37.5°
 - (D) 47.5°



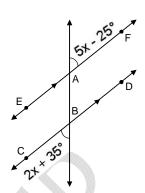
- 91. Find the value of x in the given figure:
 - (A) 30°
 - (B) 25°
 - (C) 35°
 - (D) 45°

- A 60° 45° B
- 92. In the right angle triangle ABC if $\angle B = 90^{\circ}$ then find the length of AC in given figure is
 - (A) 12.5 cm
 - (B) 14 cm
 - (C) 15 cm
 - (D) 13 cm



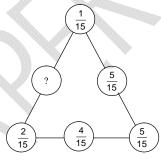
- 93. In the given figure EF || CD, then find ∠ABC
 - (A) 75°
 - (C) 115°

- (B) 105°
- (D) 85°

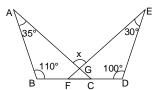


- 94. What should be placed in the empty space, so that the sum of the fractions on each side of the triangle is same?
 - (A) $\frac{7}{15}$
 - (C) $\frac{6}{15}$

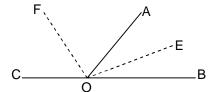
- (B) $\frac{9}{15}$
- (D) $\frac{8}{15}$



- 95. Find the value of x in the given diagram is
 - (A) 70°
 - (B) 95°
 - (C) 110°
 - (D) 120°



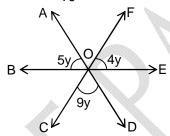
- 96. In the given figure OE is the angle bisector of ∠AOB and OF is the angle bisector of ∠AOC, then the value of ∠EOF is:
 - (A) 90°
 - (B) 180°
 - (C) 270°
 - (D) none of these



MATHEMATICS - (PART - B)

This part contains 12 Numerical Based Questions number 97 to 108. Each question has Single Digit Answer 0 to 9.

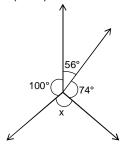
- 97. If $K = 45 \div \{8 (-2 \times 5 + 3)\}\$ then $K^2 = ?$
- 98. The sum of two integer is –12. If one of them is –35, find the sum of digits of other.
- 99. Find the sum of the smallest positive integer and the greatest negative integer.
- 100. How many one-fourths need to be added to $2\frac{1}{4}$ to make 4?
- 101. In the given figure What is the value of $\frac{y}{10}$ (in degree)?



- 102. If the area of equilateral triangle is $3\sqrt{3}$ cm² then find the height of equilateral triangle.
- 103. How many pieces of equal size can be cut from a rope of 30 metres long, each measuring $3\frac{3}{4}$ meters?

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- 104. If $3\frac{1}{x} \times 3\frac{3}{4} = 12\frac{1}{2}$, then value of 'x' is:
- 105. A bar graph is drawn to the scale of 1 cm = r units. The length of the bar representing a quantity 208 units is 2.6 cm, then find $\frac{r}{10}$.
- 106. In the given figure, the value of x is (26k°). Find the value of k.



- 107. What is the value of $\left[\frac{3}{2} + \frac{5}{2} + \frac{11}{2} \left(\frac{9}{3} + \frac{6}{3} \right) + \frac{1}{2} \right]$?
- 108. A man drives 3 km towards North and then 4 km towards East. How far is he away from his initial position?

FIITJEE ADMISSION TEST

CLASS – VIII (PAPER – 2) ANSWERS

1.	D	2.	Α	3.	В	4.	D
5.	Α	6.	Α	7.	C	8.	С
9.	D	10.	С	11.	C	12.	В
13.	В	14.	С	15.	A	16.	C
17.	Α	18.	D	19.	Α	20.	C
21.	С	22.	В	23.	В	24.	Α
25.	D	26.	C	27.	В	28.	Α
29.	С	30.	D	31.	D	32.	С
33.	В	34.	A	35.	В	36.	В
37.	В	38.	D	39.	D	40.	Α
41.	С	42.	D	43.	A	44.	Α
45.	С	46.	В	47.	C	48.	D
49.	D	50.	В	51.	В	52.	В
53.	A	54.	В	55.	C	56.	В
57.	A	58.	A	59.	D	60.	С
61.	C	62.	C	63.	В	64.	С
65.	D	66.	C	67.	Α	68.	В
69.	C	70.	D	71.	Α	72.	В
73.	D	74.	Α	75.	В	76.	В
77.	C	78.	С	79.	В	80.	D
81.	В	82.	D	83.	Α	84.	С
85.	A	86.	В	87.	D	88.	Α
89.	A	90.	Α	91.	В	92.	D
93.	В	94.	D	95.	В	96.	Α
97.	9	98.	5	99.	0	100.	7
101.	1	102.	3	103.	8	104.	3
105.	8	106.	5	107.	5	108.	5