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.

Section	Subject		Question no	Marking Scheme for each question	
Occlion	Oubject		Question no.	correct answer	wrong answer
	PHYSICS	(PART-A)	1 to 15	+1.5	0
	CHEMISTRY	(PART-B)	16 to 30	+1.5	0
SECTION -1	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
	MATHEMATICS	(PART-C)	73 to 78	+3	–1
	BIOLOGY	(PART-D)	79 to 84	+3	–1
SECTION - III	MATHEMATICS	(PART-A)	85 to 96	+3	0
	MATHEMATICS	(PART-B)	97 to 108	+3	0

2. This Question paper consists of 3 sections. Marking scheme is given in table below:

- 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	:
Test Centre	:

For questions 97 to 108 Numerical based questions single digit answer 0 to 9 Example 1: If answer is 6. Correct method: ①< ① ② ③ ④ ⑤ ⑦ ⑤ ④ Example 2: If answer is 2. If answer is 2. If answer is 2. If answer is 2. If answer is 4. If ans		
Numerical based questions single digit answer 0 to 9 Example 1: If answer is 6. O	For question	s 97 to 108
Example 1: If answer is 6. O I <td< th=""><th>Numerical ba</th><th>ased questions single digit answer 0 to 9</th></td<>	Numerical ba	ased questions single digit answer 0 to 9
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)	Example 1:	
Correct method: () () () () () () () () () () () () () (If answer is 6	<u>э</u> .
 ① ① ② ③ ④ ⑤ ⑦ ⑧ ⑨ Example 2: If answer is 2. ① ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ 	Correct meth	iod:
Example 2: If answer is 2. () () () (2) (3) (4) (5) (6) (7) (8) (9)		0 1 2 3 4 5 6 7 8 9
If answer is 2. Correct method: () (1) (2) (3) (4) (5) (6) (7) (8) (9)	Example 2:	
	If answer is 2	2.
	Correct meth	iod:
		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 blank). (A) 99 (B) 52 (C) 281 (D) 104 2. A cyclone is called a in the American Continent. (B) Typhoon (A) Hurricane (C) Tornado (D) Thunderstorm 3. If velocity - time graph of a body is parallel to the time axis, then the body (A) is at rest (B) is moving with constant speed (C) is moving with uniform non-zero acceleration (D) None of these displacement The ratio of magnitude of 4. distance (B) is always = 1 (A) is always < 1(C) is always > 1(D) may be ≤ 1 5. 5 g of copper was heated from 20°C to 80°C. How much heat energy was used to heat copper? (specific heat capacity of Copper is 0.092 cal $g^{-1} \circ C^{-1}$) (B) 0.0276 cal (A) 27.6 cal (C) 29.5 cal (D) 2.76 cal Space for Rough Work



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) <mark>v</mark>
(C) $\frac{2v}{3}$	(D) $\frac{3v}{2}$

- 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 (D) 3.8 cal
- 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
 (D) 400 m
- 14. From the given velocity-time graph find the displacement of particle in duration from t = 0 to t = 5v ↑ sec. (in m/s) (A) 40 m 10 (B) 50 m (C) 35 m 5 (D) 75 m t(in sec.) 0 2 4 5
- 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		
	Space for Roug	gh Work		

24.	In which one of the household products, ammo (A) Window cleaners (C) Dish washers	nia 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 a (A) oxygen (C) water	nd breaks down into (B) hydrogen (D) nitrogen
29.	Which acid is added to water during crystallizat (A) Nitric acid (C) Sulphuric acid	ion 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	bieces 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.



36.	The product of two numbers is $15\frac{5}{6}$. If one of the	he numbers is $6\frac{2}{3}$. Find the other.
	(A) 1 ³ / ₈	(B) 2 ³ / ₈
	(C) $3\frac{3}{8}$	(D) $4\frac{3}{8}$
37.	If $6(2a - 1) + 8 = 14$, then what is the value of a^{5} (A) 1 (C) 3	$a^{51} + a^{101} = ?$ (B) 2 (D) 4
38.	The mean of first five prime numbers is (A) 3 (C) 7	(B) 3.6 (D) 5.6
39.	If 20 is added to four times a certain number, the the number is: (A) 10 (C) 20	e result is 5 less than five times the number. Then (B) 15 (D) 25
40.	Which number is equal to $\left(\frac{0.1}{0.01} + \frac{0.01}{0.1}\right)$?	
	(A) 10.1 (C) 1.01	(B) 1.10 (D) 10.01

y

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

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

m

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 throug (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	ating 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.	 51. Major utility of breaking food into small bits during chewing is (A) to reduce surface area of food (B) to increase surface area of food for enzyme action (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		
Space for Rough Work				

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

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

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

(B) ii – v – iii – i – iv (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.

- 61. An object moving along a straight line travels one third of the total distance with speed of 3 m/s, the remaining distance is covered in two equal interval of time, with a speed of 4 m/s for half the time and with 5 m/s for the other half of the time. The average speed during the motion is

 (A) 4.5 m/s
 (B) 6 m/s
 (C) 3.86 m/s
 (D) 5 m/s
- 62. Two thermometers A and B have ice points marked 15° and 25° and steam points marked as 75° and 125° respectively. When thermometer A measures the temperature of a bath as 60° on it, what would thermometer B read when it is used to measure the temperature of the same bath?
 (A) 60°
 (B) 30°
 (C) 100°
 (D) 50°
- 63. The maximum speed of a train is 70 km/h. It takes 10 hours to cover a distance of 350 km. Find the ratio of its maximum speed to its average speed.
 (A) 5
 (B) 2
 - (C) $\frac{1}{5}$ (D) 35
- A boy has to go 500 m due north, 400 m due east and 200 m due south to reach his school. He takes 20 minutes to reach the school. If average velocity of boy during the walk is ^x/₁₂ m/s then find value of x.
 (A) 11
 (B) 3
- (C) 5 (D) None of these
 65. When 400 Joule of heat is given to 100 g sample of a metal, its temperature increased by 20°C. If
 - s. When 400 Joure of heat is given to 100 g sample of a metal, its temperature increased specific heat of metal is $n \times 50 \text{ J kg}^{-1} \text{ c}^{-1}$ then find the value of n

(A) 2	(B) 3
(C) 5	(D) 4

66. Calculate the amount of heat required to change 100 g of ice at 0°C to steam at 100°C. Given that latent heat of fusion of ice is 80 cal g^{-1} ; specific heat of water = 1 cal $g^{-1} \circ C^{-1}$; latent heat of vapourisation of steam = 540 cal g^{-1} .

A) 62 kcal	(B) 64 kcal
C) 72 kcal	(D) 10 kca

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.

	(A) butane and methane	(B) methane and butane	
72.	 CNG (compressed natural gas) and LPG (liquefied petroleum gas) are the two commonly fuels. The main constituents of these fuels are respectively. 		
71.	Proteins that build part of our body cells are may (A) amino acids (C) inorganic acids	de of (B) fatty acid (D) antacids	
70.	Which process is NOT included while spinning w (A) Combing (C) Straightening	vool? (B) Rolling (D) Reeling	
69.	Virgin wool is obtained from (A) rabbit (C) lamb	(B) calf (D) goat	
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	
67.	The element that burns with dazzling white flam (A) magnesium (C) chromium	e is (B) sulphur (D) phosphorus	

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				
	(C) 14	(D) 11				
74.	If $\frac{x}{4} + \frac{1}{2} = 4$ then $x^3 - x^2 + 1 = ?$					
	(A) 2549 (C) 2539	(B) 2559 (D) 2569				
75.	Which of the following is $\left(\frac{1}{5}\right)$ th of its complement	nt?				
	(A) 18° (C) 36°	(B) 15° (D) 75°				
76.	If $3(x-3) = 5(2x+1)$ then $x^5 + \frac{1}{x^5} = ?$					
	(A) $-\frac{1024}{32}$	(B) $-\frac{1025}{32}$				
	(C) $-\frac{1026}{32}$	(D) $-\frac{1027}{32}$				
77.	What is the sum of 0.21, 0.22 and 0.23 ?					
	(A) 0.64 (C) 0.66	(B) 0.65 (D) 0.67				
78.	Two complementary angles are in the ratio 7 : 8. (A) 30° , 60° (C) 42° , 48°	The angles are (B) 40°, 50° (D) 27°, 63°				
Space for Rough Work						

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.	Whicl (i) Th (ii) In (iii) D (iv) P (A) (C)	h of the fo e desert p absence o esert plan lants have (i) T F	llowing s lants ha of photo ts have chlorop (ii) F T	stateme ve scal synthes green s bhyll in (iii) F F	ents are co e- or spine sis, life is p stems whic leaves whi (iv) T T	orrect? e- like leaves oossible on e ch carry out p ich imparts y (B) (D)	s to reduce earth ohotosynt vellow colo (i) T F	e the los hesis our to pla (ii) F T	ss of wate ant (iii) T T	r (iv) F F
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 HCl because (A) HCl is not acidic (B) Cells are not affected at all by HCl, 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 oxe	en	(i)	Strong se	ense of smel				
Ļ	(b)	Lion		(ii)	Polar reg	jion				
	(C)	Elephant		(iii)	Bharatpu	ir, Rajasthar		1		
	(d)	Siberian	crane	(iv)	Thick ski	n, sensitive l	hearing			

Space for Rough Work

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

(D) (a) \rightarrow (i), (b) \rightarrow (iii), (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 rati (A) 45°, 60°, 75° (C) 35°, 75°, 70°	io 3 : 4 : 5. (B) 30°, 60°, 90° (D) None of these
86.	In the given figure AB CD and $\angle 2 = (3x - 10)(5x - 30)^\circ$, then find the value of $\angle 2$ and $\angle 8$ are (A) 100°, 100° (B) 20°, 20° (C) 40°, 90° (D) 60°, 60°	$A \leftarrow 4 \downarrow 2 \rightarrow B$ $C \leftarrow 5 \downarrow 6 \rightarrow D$
87.	The sum of two angles in a triangle is 95° an triangle. (A) 75°, 50°, 55° (C) 50°, 45°, 85°	d their difference is 25°. Then the angles of the (B) 85°, 65°, 30° (D) 60°, 35°, 85°
88.	In the given figure, If AB CD and AC DE th \angle b is equal to (A) 70° (B) 120° (C) 100° (D) 115°	hen $\angle a + B$ A a C

в∠70°

A 760°

280°

DŹ

<u>35 C</u>

M N

45°

ć

х

В

- 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°

92.	In the right angle length of AC in giv (A) 12.5 cm (B) 14 cm (C) 15 cm (D) 13 cm	triangle ABC if $\angle B = 90^{\circ}$ then find the en figure is	12 cm B 5 cm B
	()		

93. In the given figure EF || CD, then find $\angle ABC$ (A) 75° (B) 105° (C) 115° (D) 85°



(A) $\frac{7}{15}$ (B) (C) $\frac{6}{15}$ (D)

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

- In the given figure OE is the angle bisector of ∠AOB and 96. OF is the angle bisector of $\angle AOC$, then the value of $\angle EOF$ is: (A) 90°
 - (B) 180°

94.

(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 K² = ?
- 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?

- 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 $\frac{r}{10}$.

100

106. In the given figure, the value of x is (26k°). Find the value of k.



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.	C	11.	C	12.	в
13.	В	14.	С	15.	Α	16.	С
17.	Α	18.	D	19.	Α	20.	С
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.	Α	35.	В	36.	В
37.	В	38.	D	39.	D	40.	Α
41.	С	42.	D	43.	Α	44.	Α
45.	С	46.	В	47.	С	48.	D
49.	D	50.	в	51.	В	52.	В
53.	Α	54.	В	55.	С	56.	В
57.	Α	58.	Α	59.	D	60.	С
61.	C	62.	С	63.	В	64.	С
65.	D	66.	С	67.	Α	68.	В
69.	С	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.	Α	86.	В	87.	D	88.	Α
89.	Α	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