

NAT II Biological Science Quantitative

Sr	Questions	Answers Choice
1	If $x + 3y = 7$ and $2x + y = 5$ then x/y is?	A. $1/2$ B. $1/3$ C. $2/5$ D. $8/9$
2	One half of the employees of Al Karim Co. earn salaries above Rs. 18,000 monthly. One third of the remainder earn salaries between Rs. 15,000 and Rs. 18,000. What part of the staff below Rs. 15,000?	A. $2/3$ B. $1/3$ C. $2/5$ D. $3/5$
3	$x^2 = 1681$, $x = ?$	A. 31 B. 41 C. 51 D. 61
4	David receives his allowance on Sunday. He spends $1/4$ of his allowance on Monday and $2/3$ of the remainder on Tuesday. What part of his allowance is left for the rest of the week?	A. $2/3$ B. $4/5$ C. $6/7$ D. $1/4$
5	$2x2y$ when multiplied with $x^2 + y^2$ gives?	A. $2x^3y^3 + 2xy^3$ B. $2x^4y + 2x^2y^3$ C. $2xy^2 + 2x^2y$ D. $2xy^3 + 2x^3y$
6	Find the arithmetic mean of 25.2, 13.5, 18.5, and 34.8	A. 13 B. 23 C. 27 D. 5
7	If the ratio of $x : y$ is $9 : 7$, then $x + y$ is	A. 16 B. 2 C. 1 D. None of the above
8	The annual decrease in the population of a city was 10% and the present number of inhabitants is 1620. What was the population 2 years hence?	A. 20 B. 400 C. 2000 D. 1000
9	If $x = 7y + 3$ and $z = 49y^2$ then what is 'z' in terms of x?	A. x^2 B. $x^2 - 3$ C. $(x - 3)^2/7$ D. None
10	The ratio from 5 feet to 3 inches is	A. $3/5$ B. $5/3$ C. $3/60$ D. $1/20$ E. 20
11	If $x + 2y = 11$ and $x + y = 10$ the value of y is?	A. 1 B. 2 C. 3 D. 4
12	A word processing operator typed 44 words per minute. After practice, the operator's speed increased to 55 words per minutes. By what percent did the operator's speed increase?	A. 25% B. 50% C. 15% D. 20%
13	If $3(p + 5q) = 24$, then what is the value of q, when $p = 3$?	A. 1 B. 5 C. 9 D. 3 E. 7
14	$3/4$ of 432 = ?	A. 340 B. 232 C. 324 D. 316
15	If the area of rectangle is 12 then its perimeter is	A. 6 B. 7 C. 8 D. 9

15	If the area of rectangle is 12, then its perimeter is	D. 12 E. Cannot be determined from the given information
16	$25\% \text{ of } 4 \div 4\% \text{ of } 25 = ?$	A. 1 B. 3 C. 0 D. 67
17	If $3p + 2 = 12$, then $p - 1/3$ equals:	A. 10 B. 3 C. $10/3$ D. 4 E. 12
18	What part of an hour elapses between 10: 45 a.m and 11:09 a.m?	A. $2/5$ B. $3/5$ C. $11/12$ D. 2
19	A and B can do in 6 days. If A does the job alone he takes 10 days. What will be the time required by B to complete the job alone?	A. 8 B. 6 C. 15 D. 3
20	$9218 - 3546 + 2354 = ?$	A. 8026 B. 8116 C. 10410 D. 23174
21	A team played 30 games of which it won. What part of the games played did it loss?	A. $1/5$ B. $5/6$ C. $6/5$ D. 5
22	Which of the following is closest to the square root of $1/2$?	A. 0.7 B. 0.6 C. 0.8 D. 0.25 E. 0.5
23	The average of x, y, z and 40 is 10. What is the average of x, y and z.	A. 10 B. 0 C. 2 D. 15
24	$Ay - b = c - dy$ what is 'y' in term of 'a', 'b' and 'c'?	A. $(c + b)/(a + d)$ B. $(c - b)/(a + d)$ C. $(c - b)/(a - d)$ D. $(c + b)/(a - d)$
25	$x\sqrt{0.09} = 3$; $x = ?$	A. 10 B. $1/3$ C. $1/10$ D. 1
26	$? \times 12 = 75\% \text{ of } 336$	A. 48 B. 252 C. 28 D. 21
27	$0.027 \div 90 = ?$	A. 0.0003 B. 0.03 C. 3 D. 0.00003
28	A man spent 10% of his money. After spending 60% of the remainder he has Rs. 72 left. How much had he in the start?	A. 10 B. 100 C. 200 D. 400
29	$(60)^2 = ? \times 7$	A. 3600 B. 3528 C. 0.02 D. 50
30	What is the number, 5% of which is 10?	A. 200 B. 100 C. 50 D. 10
31	The average (arithmetic mean) of $8a + 5$, $-3a$, 9, 0 and $7a - 2$?	A. $3a + 1$ B. $3a + 3$ C. $4a + 1$ D. $4a + 4$ E. $12a + 12$

49	The average height of a class of 14 boys is 5.3 feet. After new boy is admitted to the class, the new average height now becomes 5.25. What is the height of the new boy?	<div> <div></div> <div> A. 5.0 B. 5.0 C. 6.0 D. 3.5 </div> </div>
50	12 is $\frac{3}{4}$ of what number?	<div> <div></div> <div> A. 20 B. 24 C. 16 D. 8 </div> </div>
51	The value of $(x + y)^2 - (x - y)^2$ is?	<div> <div></div> <div> A. 4 B. $(x^2 + y^2)$ C. $4xy$ D. $-4xy$ </div> </div>
52	The value of $\{0.54 - 0.44\} / \{0.52 - 0.42\}$ is?	<div> <div></div> <div> A. 0.9 B. 0.09 C. 0.19 D. 0.31 </div> </div>
53	Question Image	<div> <div></div> <div> A. 1.425 B. 1.585 C. 1.330 D. 0.750 E. 1.750 </div> </div>
54	Out of the 44 boys in a class 9 are of the age of 10, 15 at the age of 9, and the rest are at the age of 8. Find their average age.	<div> <div></div> <div> A. 7.85 B. 8.75 C. 12.2 D. 14.35 </div> </div>
55	A motion was passed by a vote of 5: 3. What part of the votes cast was in favor of the motion?	<div> <div></div> <div> A. $\frac{3}{5}$ B. $\frac{5}{8}$ C. $\frac{3}{8}$ D. $\frac{5}{3}$ </div> </div>
56	What is $\frac{1}{5}\%$ of 5000	<div> <div></div> <div> A. 10 B. 12 C. 16 D. 1000 E. 5000 </div> </div>
57	If $2x + y = 11$ and $3x + 2y = 17$ then y is?	<div> <div></div> <div> A. 1 B. 5 C. 6 D. 4 </div> </div>
58	If $x\%$ of 60 = 48, then x = ?	<div> <div></div> <div> A. 80 B. 60 C. 90 D. 40 </div> </div>
59	If a man's weekly salary is \$X and saves \$Y. What part of his weekly salary does he spend?	<div> <div></div> <div> A. $\frac{X}{Y}$ B. $\frac{X-Y}{X}$ C. $\frac{Y-X}{X}$ D. $x-y$ </div> </div>
60	$.007 \div \sqrt{.000049}$	<div> <div></div> <div> A. 1 B. .0049 C. 2 D. 7 </div> </div>
61	If 10 tractors are needed to plow a field in 4 hours, how many tractors are needed to plow the field in 5 hours?	<div> <div></div> <div> A. 32 B. 4 C. 16 D. 8 </div> </div>
62	The value of $x^2 + 5x + 6$ at $x = 2$ is?	<div> <div></div> <div> A. 10 B. 14 C. 18 D. 20 </div> </div>
63	$\frac{2}{3} \times 12 =$	<div> <div></div> <div> A. 4 B. 6 C. 8 D. 10 E. 18 </div> </div>
64	If $p = 2$, then $3^p + (p^3)^2 =$	<div> <div></div> <div> A. 18 B. 45 C. 42 D. 70 E. 73 </div> </div>
65	A number which is divisible by both 6 and 8 is also divisible by	<div> <div></div> <div> A. 7 B. 5 C. 11 D. 9 E. 24 </div> </div>

66	$350 - 96 \div 18 = ?$	A. 318 B. -132 C. 328 D. 232
67	In a school there are 400 students, of whom 70% are boys. What is the number of girls?	A. 120 B. 200 C. 280 D. 2800
68	How many miles are there between two cities if the distance is represented by a 2.4-inch line on a map having a scale of 1 inch to 8 miles?	A. 19.2 B. 12.8 C. 8.5 D. 38
69	David receives his allowance on Sunday. He spends $\frac{1}{4}$ of his allowance on Monday and $\frac{2}{3}$ of the remainder on Tuesday. What part of his allowance is left for the rest of the week?	A. $\frac{2}{3}$ B. $\frac{4}{5}$ C. $\frac{6}{7}$ D. $\frac{1}{4}$
70	A piece of fabric is cut into three sections so that the first is three times as long as the second and the second is three times as long as the third. What part of the entire piece is the smallest section?	A. $\frac{2}{5}$ B. $\frac{3}{7}$ C. $\frac{2}{3}$ D. $\frac{1}{13}$
71	$816 - 288 \div = 24 ?$	A. 22 B. 828 C. 528 D. 804
72	Mr. Kashif got an average of 50 in 6 tests. What should he get in the next to attain the average of 60?	A. 120 B. 60 C. 100 D. 70
73	15% of 32 equal	A. 3.80 B. 2.50 C. 4.80 D. 4 E. 5
74	If $a^2 - b^2$ and $a - b = 12$ then average of 'a' and 'b' is?	A. 3 B. 12 C. 6 D. $\frac{3}{2}$
75	What is the sum of money, 6% of which is 18 dollars?	A. 600 B. 200 C. 300 D. 10
76	The circumference of a circle whose diameter is 6 inches is approximately	A. 22 inches B. 19 inches C. 14 inches D. 38 inches E. 16 inches
77	$(60)^2 = ? \times 72$	A. 36 B. 3600 C. 40 D. 50
78	$1.02 - 0.02 + ? = 1.842$	A. 0.222 B. 0.842 C. 2 D. None
79	The population of a city increased in two years from 25,000 to 30,000; find the percent increase during the time.	A. 10% B. 20% C. 40% D. 5%
80	$\frac{1}{x} = \frac{1}{y} + \frac{1}{z}$ then 'x' in terms of 'y' and 'z' is given by?	A. $(y + z) / (y - z)$ B. $yz / (y + z)$ C. $(y + z) / yz$ D. $\frac{1}{z} - \frac{1}{y}$
81	$(x + y)^2 = 25$ and $x^2 + y^2 = 13$ then xy is equal to?	A. 16 B. 20 C. 18 D. 6
82	Find the sum of money, 11% of which is Rs. 1650.	A. 150 B. 3300 C. 25000 D. 15000

83	Ay - b = c - dy what is 'y' in terms of 'a', 'b' and 'c'?	A. 30 B. 38/2 C. 38/3 D. 38/5
84	If $3a - 5 = 3 + 2a$, then $a =$	A. 8 B. 9 C. 10 D. 12 E. 6
85	Successive discounts of 10% and 15% is equivalent to a single discount of	A. 24% B. 24.5% C. 23.5% D. 22% E. 25%
86	When $3x^2 + 5x + 7$ is subtracted from $x^2 + 8x + 3$ the result is?	A. $5x^2 - 3x + 4$ B. $3x - 2x^2 - 4$ C. $x^2 + 8x + 10$ D. $11x^2 - 3x + 10$
87	If $3x + 5y = 10$ and $3y + 5x = 30$ then average if 'x' and 'y' is?	A. 3/2 B. 4 C. 5/2 D. 7/2
88	If a pipe can fill a tank in 2 hours and another pipe can fill the same tank in 40 minutes. How much time in minutes is needed to fill the tank if both the pipes are working together?	A. 90 B. 50 C. 60 D. 30
89	A factory employs M men and W women. What part of its employees are women?	A. $W/(W + M)$ B. W/M C. $(W + M)/M$ D. M/W
90	$(190)^2 - (150)^2 = ?$	A. 58600 B. 13600 C. 1360 D. 1600
91	A man bought 27 packets of Chilli Milli at \$280 each, 9 packets of Chilli Milli at \$320 each and 6 packets of Chilli Milli at \$360 each. Find the average price per packet of Chilli Milli.	A. \$250 B. \$300 C. \$400 D. \$380
92	The value of $(x + y)^2 + (x - y)^2$ is?	A. 4 B. $2(x^2 + y^2)$ C. $4xy$ D. $-4xy$
93	$2.08 - (0.5)^2 = ?$	A. -1.20 B. 1.88 C. 1.83 D. 2.16
94	$1/2$ of $44 \div 2.2 = ?$	A. 20 B. 22 C. 44 D. 100
95	If the radius of the circle is halved, then its area	A. Remains same B. Become half C. Become quarter D. Become double E. Not changed
96	A clerk filed 73 forms on Monday, 85 forms on Tuesday, 54 on Wednesday, 92 on Thursday and 66 on Friday. What was the average number of forms filed per day?	A. 50 B. 95 C. 84 D. 74
97	What part of an hour elapses between 10:45 a.m. and 11:09 a.m.?	A. 2/5 B. 3/5 C. 11/12 D. 2
98	12% of $x = 360$	A. 250 B. 100 C. 400 D. 3000
99	A team played 30 games of which it won. What part of the games played did it lose?	A. 1/5 B. 5/6 C. 6/5 D. 5