RRB NTPC Exams

A) 18 daysB) 20 daysC) 15 daysD) 12.5 days

Mathematics (30 Questions)

	Answer: B
2.	A train running at 60 km/h crosses a pole in 30 seconds. What is the length of the
	train?
	A) 500 m
	B) 600 m
	C) 450 m
	D) 750 m
	Answer: A
3.	A shopkeeper sells an item at a loss of 10%. If he had sold it for ₹100 more, he
	would have gained 5%. What is the cost price?
	A) ₹500
	B) ₹600
	C) ₹700
	D) ₹800
	Answer: B
4.	If $x^2 + 1/x^2 = 25$, find $x + 1/x$.
	A) 7
	B) 5
	C) 6
	D) 8
	Answer: A
5.	The average of 5 consecutive odd numbers is 45. What is the smallest of these
	numbers?
	A) 41
	B) 43
	C) 45
	D) 39
	Answer: A
6.	A can do a piece of work in 20 days. B is 25% more efficient than A. In how
	many days can B do the same work?
	A) 16 days
	B) 15 days
	C) 18 days
	D) 20 days
	Answer: A
7.	A man bought an article at 20% discount on the labelled price. He sold it at a
	10% profit on the labelled price. What is the profit percentage?
	A) 30%
	B) 35%
	C) 25%

1. If 12 men complete a work in 15 days, in how many days will 10 men do it?

		D) 37.5%
		Answer: D
8	3.	If 40% of a number is equal to 2/5 of another number and the second number is
•	•	75, what is the first number?
		A) 75
		B) 60
		C) 90
		D) 85
		Answer: C
C)	What is the compound interest on ₹10,000 at 10% p.a. for 2 years?
	•	A) ₹1,000
		B) ₹2,100
		C) ₹2,000
		D) ₹2,200
		Answer: B
1	n	A sum of money triples itself in 8 years. In how many years will it become 9
,	ι Ο.	times?
		A) 24 years
		B) 16 years
		C) 18 years
		D) 20 years
		Answer: A
1	11	What is the value of $111 \times 111 - 11 \times 11$?
,	11.	A) 12100
		B) 11100
		C) 12210
		D) 12321
		Answer: A
1	12	If $\sin A = 3/5$, find $\cos A$.
,	L ∠.	A) 4/5
		B) 3/4
		C) 5/3
		D) 2/5
		Answer: A
1	13	The LCM of two numbers is 240 and their HCF is 12. If one number is 48, what
		is the other number?
		A) 60
		B) 72
		C) 80
		D) 90
		Answer: C
1	4	If $A:B = 2:3$ and $B:C = 4:5$, find $A:C$.
_		A) 8:15
		B) 2:5
		C) 3:4
		D) 5:8
		Answer: A
1	15	What is the area of a rhombus with diagonals 10 cm and 8 cm?
,	٠.	A) 40 cm ²
		B) 50 cm ²

	C) 80 cm ²
	D) 60 cm ²
	Answer: A
16.	Find the smallest number which when divided by 8, 12, and 16 leaves a
	remainder of 5.
	A) 101
	B) 101
	C) 197
	D) 101
	Answer: D
17.	A train 180 m long passes a platform 120 m long in 15 seconds. Find the speed of
	the train.
	A) 72 km/h
	B) 60 km/h
	C) 90 km/h
	D) 96 km/h
	Answer: A
18.	If the angles of a triangle are in the ratio 2:3:4, find the largest angle.
	A) 40°
	B) 60°
	C) 80°
	D) 100°
	Answer: D
19.	A person marks his goods 60% above cost price and allows a discount of 25%.
	What is the gain percent?
	A) 20%
	B) 25%
	C) 30%
	D) 35%
20	Answer: A
20.	A tank is filled by one tap in 12 minutes and emptied by another in 20 minutes.
	How long will it take to fill the tank if both are opened together?
	A) 30 min
	B) 32 min
	C) 40 min
	D) 48 min Answer: D
21	What is the LCM of 12, 15, and 20?
21.	A) 60
	B) 120
	C) 240
	D) 30
	Answer: A) 60
22.	Simplify: $(1/2 + 1/3 + 1/4) = ?$
	A) $13/12$
	B) 1
	C) 9/10
	D) 1.5
	Answer: A) 13/12

23. A train 120 m long is running at 54 km/h. How much time will it take to pass a
man standing on the platform?
A) 8 sec
B) 10 sec
C) 12 sec
D) 15 sec
Answer: C) 8 sec
24. If the cost price of an article is ₹500 and the selling price is ₹600, what is the
profit percentage? A) 10%
B) 15%
C) 20%
D) 25%
Answer: C) 20%
25. What is the simple interest on ₹1000 at 5% per annum in 3 years?
A) ₹150
B) ₹120
C) ₹200
D) ₹180
Answer: A) ₹150
26. If 12 men can complete a work in 15 days, in how many days can 10 men
complete the same work?
A) 18 days
B) 20 days
C) 16 days
D) 14 days
Answer: B) 18 days
27. The average of 5, 10, 15, 20, and 25 is:
A) 10
B) 15
C) 12.5
D) 13
Answer: B) 15
28. What is the square root of 1444?
A) 38
B) 36
C) 34
D) 32
Answer: A) 38
29. A man covers a distance of 240 km in 6 hours. What is his speed?
A) 30 km/h
B) 40 km/h
C) 45 km/h
D) 50 km/h
Answer: B) 40 km/h
30. Ratio of 2:3 is equal to which of the following? A) 4:6
B) 6:10
C) 8:10
0,0.10

Answer: B

Answer: A) 4:6 and D) 10:15 (both correct)

1	Which gas is used in the preparation of soda water?
1.	A) Oxygen
	B) Carbon Dioxide
	C) Hydrogen
	D) Nitrogen
	Answer: B
2.	Which part of the plant conducts photosynthesis?
	A) Root
	B) Stem
	C) Leaf
	D) Flower
	Answer: C
3.	The hardest natural substance is:
	A) Gold
	B) Iron
	C) Diamond
	D) Platinum
	Answer: C
ŀ.	Which vitamin helps in blood clotting?
	A) A
	B) B
	C) K
	D) D
	Answer: C
5.	The instrument used to measure atmospheric pressure is:
	A) Thermometer
	B) Barometer
	C) Hygrometer
	D) Anemometer
	Answer: B
5.	Which planet has the highest number of moons?
	A) Jupiter
	B) Saturn
	C) Uranus
	D) Neptune
_	Answer: B
7.	The SI unit of electric current is:
	A) Watt
	B) Ampere
	C) Volt
	D) Ohm

8.	The phenomenon of bending of light around corners is called:
	A) Reflection
	B) Refraction
	C) Diffraction
	D) Dispersion
	Answer: C
9.	Who discovered the neutron?
	A) J.J. Thomson
	B) Rutherford
	C) Chadwick
	D) Bohr
	Answer: C
10.	Which gas is responsible for global warming?
	A) CO ₂
	B) O ₂
	C) H ₂
	D) N_2
	Answer: A
11.	What is the chemical formula of Baking Soda?
	A) NaCl
	B) NaHCO ₃
	C) CaCO ₃
	D) Na ₂ CO ₃
10	Answer: B
12.	Which part of the cell contains genetic material?
	A) Cytoplasm
	B) Nucleus
	C) Cell wall
	D) Ribosome
10	Answer: B
13.	Which one is a Newton's Third Law example?
	A) A ball falling under gravity
	B) Rocket launch
	C) Moon orbiting Earth D) Water hailing
	D) Water boiling Answer: B
1 /	
14.	Acid turns litmus paper from: A) Red to blue
	B) Blue to red
	C) Green to yellow
	D) Colorless to pink
	Answer: B
15	Which disease is caused by a virus?
13.	A) Tuberculosis
	<i>'</i>
	B) Typhoid C) AIDS
	D) Cholera
	Answer: C
16	The boiling point of water is:
10.	A) 50°C
	11,000

B) 90°C C) 100°C D) 120°C **Answer: C** 17. Which gas is used in fire extinguishers? A) Oxygen B) Hydrogen C) Carbon Dioxide D) Helium **Answer: C** 18. Which blood cells help in clotting? A) RBC B) WBC C) Platelets D) Plasma **Answer: C** 19. The speed of light in vacuum is: A) $3 \times 10^8 \text{ m/s}$ B) $1.5 \times 10^8 \text{ m/s}$ C) 2.5×10^6 m/s D) $3 \times 10^{6} \text{ m/s}$ **Answer: A** 20. Which part of the human brain controls breathing? A) Cerebrum B) Cerebellum C) Medulla D) Pons **Answer: C** 21. What is the chemical formula of water? A) H2O B) CO2 C) H2SO4 D) NaCl Answer: A) H2O 22. Which part of the plant conducts photosynthesis? A) Root B) Stem C) Leaf D) Flower Answer: C) Leaf 23. Which gas is used for respiration by humans? A) Oxygen B) Nitrogen C) Carbon Dioxide D) Hydrogen Answer: A) Oxygen 24. Which vitamin is produced by sunlight in the human body? A) Vitamin A B) Vitamin B C) Vitamin C

- D) Vitamin D
- **Answer:** D) Vitamin D
- 25. Which organ is called the "control center" of the human body?
 - A) Heart
 - B) Brain
 - C) Liver
 - D) Kidney

Answer: B) Brain

- 26. What is the SI unit of force?
 - A) Joule
 - B) Watt
 - C) Newton
 - D) Pascal

Answer: C) Newton

- 27. Which of the following is a non-metal?
 - A) Iron
 - B) Copper
 - C) Carbon
 - D) Zinc

Answer: C) Carbon

- 28. Which planet is known as the Red Planet?
 - A) Venus
 - B) Mars
 - C) Jupiter
 - D) Mercury

Answer: B) Mars

- 29. What is the boiling point of water in Celsius?
 - A) 0° C
 - B) 100°C
 - C) 50°C
 - D) 212°C

Answer: B) 100°C

- 30. Which metal is liquid at room temperature?
 - A) Iron
 - B) Mercury
 - C) Lead
 - D) Copper

Answer: B) Mercury