



**TALENT & SKILLS
DEVELOPMENT**



2025 **STEAM** **EDUCATION**

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**GRADE
11 - 12**

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Q.No.1: A quantity with magnitude but no direction is called?

- | | |
|--------------|------------------|
| (A) Velocity | (B) Force |
| (C) Work | (D) Acceleration |

Q.No.2: What is the SI unit of impulse, considering Newton's Second Law?

- | | |
|------------|------------|
| (A) Joule | (B) Newton |
| (C) Pascal | (D) Watt |

Q.No.3: Which of the following exhibits the highest moment of inertia?

- | | |
|---------------|----------------|
| (A) A bicycle | (B) A football |
| (C) A truck | (D) A human |

Q.No.4: Newton's First Law is a special case of which fundamental principle?

- | | |
|-------------------------|--------------------|
| (A) Law of Gravitation | (B) Law of Inertia |
| (C) Law of Acceleration | (D) Law of Force |

Q.No.5: How does the acceleration due to gravity vary with altitude and depth?

- | | |
|--------------------------|--------------------------|
| (A) 8.9 m/s^2 | (B) 10.8 m/s^2 |
| (C) 11.2 m/s^2 | (D) 9.8 m/s^2 |

Q.No.6: Which mirror is used in a vehicle's rear-view mirror?

- | | |
|--------------------|-------------------|
| (A) Plane mirror | (B) Convex mirror |
| (C) Concave mirror | (D) None of these |

Q.No.7: A rainbow is formed due to which phenomenon?

- | | |
|----------------|----------------|
| (A) Reflection | (B) Refraction |
| (C) Dispersion | (D) Scattering |

Q.No.8: Electric current is measured in:

- | | |
|------------|----------|
| (A) Volt | (B) Ohm |
| (C) Ampere | (D) Watt |

Q.No.9: Which of the following materials is a good conductor of electricity?

- | | |
|------------|-------------|
| (A) Rubber | (B) Plastic |
| (C) Copper | (D) Wood |

Q.No.10: The power of a convex lens of focal length 25 cm is:

- | | |
|---------|---------|
| (A) +4D | (B) -4D |
| (C) +5D | (D) -5D |

Q.No.11: Which of the following is not a compound?

- | | |
|--------------------|---------------------|
| (A) Water | (B) Oxygen |
| (C) Carbon dioxide | (D) Sodium chloride |

Q.No.12: The chemical symbol of sodium is:

- | | |
|--------|-------|
| (A) So | (B) S |
| (C) Na | (D) N |

Q.No.13: Which gas is evolved when a metal reacts with acid?

- | | |
|--------------|--------------------|
| (A) Oxygen | (B) Hydrogen |
| (C) Nitrogen | (D) Carbon dioxide |

Q.No.14: Which of the following is a physical change?

- | | |
|----------------------|-----------------------|
| (A) Burning of paper | (B) Rusting of iron |
| (C) Melting of ice | (D) Digestion of food |

Q.No.15: pH value of pure water is:

- | | |
|--------|--------|
| (A) 0 | (B) 7 |
| (C) 10 | (D) 14 |

Q.No.16: Which of the following metals is the most reactive?

- | | |
|------------|--------------|
| (A) Gold | (B) Copper |
| (C) Sodium | (D) Platinum |

Q.No.17: Which acid is present in lemon?

- | | |
|-----------------|-----------------------|
| (A) Acetic acid | (B) Sulfuric acid |
| (C) Citric acid | (D) Hydrochloric acid |

Q.No.18: Chemical formula of quicklime is:

- | | |
|-----------------------|---------------------|
| (A) CaCO_3 | (B) CaO |
| (C) Ca(OH)_2 | (D) CaCl_2 |

Q.No.19: Which of the following is used as an antiseptic?

- | | |
|-----------------|----------------------|
| (A) Baking soda | (B) Bleaching powder |
| (C) Iodine | (D) Vinegar |

Q.No.20: What is the main constituent of LPG gas?

- | | |
|-------------|---------------------|
| (A) Methane | (B) Butane |
| (C) Ethane | (D) Carbon monoxide |

Q.No.21: Which organelle is known as the powerhouse of the cell?

- | | |
|------------------|----------------|
| (A) Nucleus | (B) Ribosome |
| (C) Mitochondria | (D) Golgi body |

Q.No.22: Which pigment is responsible for photosynthesis?

- | | |
|----------------|-----------------|
| (A) Hemoglobin | (B) Chlorophyll |
| (C) Carotene | (D) Melanin |

Q.No.23: Which of the following is an example of a unicellular organism?

- | | |
|---------------|------------|
| (A) Human | (B) Amoeba |
| (C) Earthworm | (D) Fish |

Q.No.24: Which vitamin is responsible for blood clotting?

- | | |
|---------------|---------------|
| (A) Vitamin A | (B) Vitamin B |
| (C) Vitamin K | (D) Vitamin C |

Q.No.25: Which organ filters blood in the human body?

- | | |
|-----------|------------|
| (A) Heart | (B) Kidney |
| (C) Liver | (D) Lungs |

Q.No.26: Which blood group is a universal donor?

- | | |
|-------|--------|
| (A) A | (B) AB |
| (C) B | (D) O |

Q.No.27: Malaria is caused by:

- | | |
|--------------|------------|
| (A) Bacteria | (B) Virus |
| (C) Protozoa | (D) Fungus |

Q.No.28: Which part of the plant is responsible for water absorption?

- | | |
|------------|-------------|
| (A) Leaves | (B) Stems |
| (C) Roots | (D) Flowers |

Q.No.29: The largest organ in the human body is:

- | | |
|-----------|------------|
| (A) Liver | (B) Heart |
| (C) Skin | (D) Kidney |

Q.No.30: Which gas is used by plants in photosynthesis?

- | | |
|--------------|--------------------|
| (A) Oxygen | (B) Carbon dioxide |
| (C) Nitrogen | (D) Hydrogen |

Q.No.31: Which of the following is a vector quantity?

- | | |
|------------------|--------------|
| (A) Speed | (B) Distance |
| (C) Displacement | (D) Work |

Q.No.32: Momentum is the product of:

- | | |
|-----------------------|---------------------------|
| (A) Mass and velocity | (B) Force and time |
| (C) Work and time | (D) Mass and acceleration |

Q.No.33: Rate of change of velocity is called:

- | | |
|--------------|------------------|
| (A) Speed | (B) Acceleration |
| (C) Momentum | (D) Displacement |

Q.No.34: The SI unit of energy is:

- | | |
|-----------|------------|
| (A) Joule | (B) Newton |
| (C) Watt | (D) Pascal |

Q.No.35: Which type of mirror is used in headlights of vehicles?

- | | |
|-------------------|--------------------|
| (A) Plane mirror | (B) Concave mirror |
| (C) Convex mirror | (D) None of these |

Q.No.36: Which of the following is a renewable source of energy?

- | | |
|-----------------|-----------------|
| (A) Coal | (B) Petroleum |
| (C) Wind energy | (D) Natural gas |

Q.No.37: What is the speed of light in a vacuum?

- | | |
|-------------------------|----------------------------|
| (A) 3×10^6 m/s | (B) 3×10^8 m/s |
| (C) 3×10^4 m/s | (D) 3×10^{12} m/s |

Q.No.38: Electric power is given by the formula:

- | | |
|---------------|----------------|
| (A) $P = VI$ | (B) $P = IR$ |
| (C) $P = V/R$ | (D) $P = I^2R$ |

Q.No.39: The phenomenon of light bouncing off a surface is called:

- | | |
|-----------------|----------------|
| (A) Refraction | (B) Reflection |
| (C) Diffraction | (D) Dispersion |

Q.No.40: A transformer is used to:

- | | |
|------------------------------|----------------------------------|
| (A) Convert AC to DC | (B) Increase or decrease voltage |
| (C) Measure electric current | (D) Store electrical energy |

Q.No.41: Which of the following is an example of a heterogeneous mixture?

- | | |
|-------------------|----------------------|
| (A) Salt in water | (B) Sugar in water |
| (C) Oil in water | (D) Alcohol in water |

Q.No.42: An element that is liquid at room temperature is:

- | | |
|------------|-------------|
| (A) Oxygen | (B) Mercury |
| (C) Sodium | (D) Gold |

Q.No.43: Which gas turns lime water milky?

- | | |
|--------------------|--------------|
| (A) Oxygen | (B) Nitrogen |
| (C) Carbon dioxide | (D) Hydrogen |

Q.No.44: The chemical formula of washing soda is:

- | | |
|----------------------|------------------------------|
| (A) NaHCO_3 | (B) Na_2CO_3 |
| (C) NaOH | (D) CaCO_3 |

Q.No.45: Which of the following is a noble gas?

- | | |
|------------|--------------|
| (A) Oxygen | (B) Nitrogen |
| (C) Helium | (D) Hydrogen |

Q.No.46: Which element is the most abundant in Earth's crust?

- | | |
|---------------|-------------|
| (A) Aluminium | (B) Silicon |
| (C) Iron | (D) Oxygen |

Q.No.47: Which type of bond is formed in NaCl?

- | | |
|-------------------|-------------------|
| (A) Covalent bond | (B) Ionic bond |
| (C) Metallic bond | (D) Hydrogen bond |

Q.No.48: The atomic number of carbon is:

- | | |
|--------|--------|
| (A) 6 | (B) 8 |
| (C) 12 | (D) 16 |

Q.No.49: Which of the following is an exothermic reaction?

- | | |
|--------------------|---------------------------|
| (A) Melting of ice | (B) Photosynthesis |
| (C) Respiration | (D) Electrolysis of water |

Q.No.50: The functional unit of the kidney is called:

- | | |
|--------------|-------------|
| (A) Neuron | (B) Nephron |
| (C) Alveolus | (D) Villus |

Q.No.51: What is a computer virus?

- | | |
|--|--------------------------------|
| (A) A type of computer hardware | (B) A type of operating system |
| (C) A malicious program that replicates itself | (D) An antivirus software |

Q.No.52: What is phishing?

- | | |
|--|----------------------------------|
| (A) A process of data encryption | (B) A type of firewall |
| (C) Sending fake emails to steal information | (D) A method of scanning viruses |

Q.No.53: A strong password should have:

- | | |
|--|----------------------------|
| (A) Only letters | (B) Only numbers |
| (C) A mix of letters, numbers, and symbols | (D) Your name or birthdate |

Q.No.54: Which of the following is NOT an example of malware?

- | | |
|------------------|----------------|
| (A) Trojan horse | (B) Ransomware |
| (C) Firewall | (D) Worm |

Q.No.55: Which of the following is a high-level programming language?

- | | |
|------------------|------------|
| (A) Assembly | (B) C++ |
| (C) Machine Code | (D) Binary |

Q.No.56: What is the correct way to write a comment in Python?

- | | |
|--------------------------|-----------------------------|
| (A) // This is a comment | (B) /* This is a comment */ |
| (C) # This is a comment | (D) -- This is a comment |

Q.No.57: SQL is used for:

- | | |
|-----------------------|-------------------------|
| (A) Web design | (B) Database management |
| (C) Programming games | (D) Creating animations |

Q.No.58: What is the full form of SQL?

- | | |
|-------------------------------|-----------------------------|
| (A) Structured Query Language | (B) System Query Logic |
| (C) Sequential Query Language | (D) Standard Quick Language |

Q.No.59: What is a primary key in a database?

- | | |
|--|-------------------------------|
| (A) A key that allows duplicate values | (B) A key used for encryption |
| (C) A key that uniquely identifies each record | (D) A key used in indexing |

Q.No.60: Which of the following is an example of a NoSQL database?

- | | |
|----------------|-------------|
| (A) MySQL | (B) MongoDB |
| (C) PostgreSQL | (D) Oracle |

Q.No.61: Which of the following is a universal gate?

- | | |
|----------|---------|
| (A) AND | (B) OR |
| (C) NAND | (D) NOT |

Q.No.62: The output of an AND gate is 1 only when:

- | | |
|------------------------|------------------------|
| (A) Any one input is 1 | (B) Both inputs are 1 |
| (C) Both inputs are 0 | (D) Any one input is 0 |

Q.No.63: Which logic gate gives the output 1 when any one of its inputs is 1?

- | | |
|---------|---------|
| (A) AND | (B) NOR |
| (C) OR | (D) NOT |

Q.No.64: A flowchart is used to:

- | | |
|-------------------------------------|------------------------------------|
| (A) Represent a computer's hardware | (B) Visually describe an algorithm |
| (C) Store data in a database | (D) Write program code |

Q.No.65: In a flowchart, which shape represents a decision-making step?

- | | |
|-------------|---------------|
| (A) Oval | (B) Rectangle |
| (C) Diamond | (D) Circle |

Q.No.66: The symbol used for input/output operations in a flowchart is:

- | | |
|-------------------|-------------|
| (A) Parallelogram | (B) Oval |
| (C) Rectangle | (D) Diamond |

Q.No.67: In pseudocode, the IF-ELSE statement is used for:

- | | |
|-------------------------|---------------------------|
| (A) Looping | (B) Decision-making |
| (C) Declaring variables | (D) Arithmetic operations |

Q.No.68: Which of the following is not a cloud service provider?

- | | |
|---------------------|---------------|
| (A) Google Drive | (B) AWS |
| (C) Microsoft Azure | (D) Photoshop |

Q.No.69: What is AI (Artificial Intelligence) mainly used for?

- (A) Running computer networks
- (B) Storing large amounts of data
- (C) Performing intelligent tasks like human thinking
- (D) Creating 3D animations

Q.No.70: What does IoT (Internet of Things) mean?

- (A) A type of cloud computing service
- (B) A type of programming language
- (C) A network of physical devices connected to the internet
- (D) A network security protocol

Q.No.71: Which of the following is not a programming language?

- | | |
|------------|-------------|
| (A) Python | (B) Windows |
| (C) HTML | (D) Java |

Q.No.72: What does BIOS stand for in a computer?

- | | |
|-----------------------------------|--|
| (A) Basic Input Output System | (B) Binary Integrated Operating System |
| (C) Big Internet Operating System | (D) Basic Internal Output System |

Q.No.73: What is 5G technology mainly used for?

- (A) Cloud storage services
- (B) Artificial intelligence processing
- (C) Faster internet and wireless communication
- (D) Blockchain transactions

Q.No.74: The binary number system uses only which two digits?

- (A) 0 and 2
- (B) 1 and 2
- (C) 0 and 1
- (D) 1 and 10

Q.No.75: The decimal equivalent of the binary number 1011 is:

- (A) 10
- (B) 11
- (C) 12
- (D) 13

Q.No.76: How many bits make one byte?

- (A) 2
- (B) 4
- (C) 8
- (D) 16

Q.No.77: The binary equivalent of the hexadecimal number A (10 in decimal) is:

- (A) 1010
- (B) 1001
- (C) 1100
- (D) 1111

Q.No.78: If a binary number ends in 0, what does it indicate in decimal?

- (A) It is an odd number
- (B) It is an even number
- (C) It is a prime number
- (D) It is a multiple of 3

Q.No.79: The first step in any algorithm is typically:

- (A) Input
- (B) Initialization
- (C) Output
- (D) Processing

Q.No.80: What is the symbol used to represent start or end in a flowchart?

- (A) Rectangle
- (B) Oval
- (C) Parallelogram
- (D) Diamond

Q.No.81: The SQL command used to add a new row to a table is:

- (A) INSERT INTO
- (B) SELECT
- (C) UPDATE
- (D) DELETE

Q.No.82: Which of the following is a valid SQL query to find all records in a table named "Students"?

- (A) SELECT * FROM Students;
- (B) GET * FROM Students;
- (C) SHOW * FROM Students;
- (D) RETRIEVE * FROM Students;

Q.No.83: The function of a DNS (Domain Name System) is to:

- (A) Assign IP addresses to websites
- (B) Encrypt internet traffic
- (C) Translate domain names to IP addresses
- (D) Monitor network traffic

Q.No.84: The OSI Model consists of how many layers?

- (A) 5
- (B) 7
- (C) 8
- (D) 9

Q.No.85: A programming language is primarily used to:

- (A) Communicate with the computer
- (B) Communicate with other users
- (C) Design websites
- (D) Store data

Q.No.86: Which of the following is a high-level programming language?

- (A) Assembly language
- (B) Python
- (C) Machine language
- (D) Binary language

Q.No.87: What is the primary function of the CPU (Central Processing Unit)?

- (A) To store data
- (B) To process data
- (C) To connect the computer to the internet
- (D) To display data

Q.No.88: RAM (Random Access Memory) is a type of memory that:

- (A) Stores data permanently
- (B) Has a much slower access time than hard drives
- (C) Is used to store programs currently in use
- (D) Cannot be accessed by the CPU

Q.No.89: Which of the following is an example of software?

- | | |
|--------------------|--------------|
| (A) Monitor | (B) Keyboard |
| (C) Microsoft Word | (D) Printer |

Q.No.90: Which of the following is used to store data permanently in a computer?

- | | |
|-----------|----------------|
| (A) RAM | (B) CPU |
| (C) Cache | (D) Hard Drive |

Q.No.91: Which of the following is a common input device used to move a pointer on the screen?

- | | |
|--------------|-------------|
| (A) Keyboard | (B) Mouse |
| (C) Printer | (D) Monitor |

Q.No.92: Which of the following is an example of a storage device?

- | | |
|-------------|-----------------|
| (A) Monitor | (B) Speaker |
| (C) Mouse | (D) Flash Drive |

Q.No.93: Encryption is used for:

- (A) Speeding up the data transfer process
- (B) Protecting data by converting it into a secure format
- (C) Enhancing the graphics quality of a device
- (D) Connecting devices to a network

Q.No.94: Which of the following programming languages is commonly used for web development?

- | | |
|------------|----------|
| (A) Python | (B) Java |
| (C) HTML | (D) C++ |

Q.No.95: What is the primary purpose of the CPU?

- | | |
|-----------------------------|---|
| (A) Store data and programs | (B) Process data and execute instructions |
| (C) Display output | (D) Manage network connections |

Q.No.96: The main function of the ALU (Arithmetic Logic Unit) is to:

- | | |
|------------------------------|---|
| (A) Store data | (B) Perform arithmetic and logic operations |
| (C) Control the flow of data | (D) Display the results |

Q.No.97: Which of the following is a secondary storage device?

- | | |
|---------------|------------------|
| (A) RAM | (B) CPU |
| (C) Hard disk | (D) Cache memory |

Q.No.98: Which of the following is used to connect computers in a network?

- | | |
|-------------|-------------|
| (A) Mouse | (B) Modem |
| (C) Monitor | (D) Printer |

Q.No.99: The process of converting an analog signal to a digital signal is known as:

- | | |
|------------------|----------------|
| (A) Modulation | (B) Conversion |
| (C) Digitization | (D) Encryption |

Q.No.100: The Internet uses a protocol called TCP/IP. What does TCP stand for?

- | | |
|-----------------------------------|-------------------------------------|
| (A) Text Control Protocol | (B) Transfer Control Protocol |
| (C) Transmission Control Protocol | (D) Transfer Communication Protocol |

Q.No.101: The sum of the interior angles of a triangle is:

- | | |
|-----------------|-----------------|
| (A) 180° | (B) 360° |
| (C) 90° | (D) 270° |

Q.No.102: The perimeter of a circle is called the:

- | | |
|------------|-------------------|
| (A) Area | (B) Circumference |
| (C) Radius | (D) Diameter |

Q.No.103: The mean of the numbers 4, 6, 8, and 10 is:

- | | |
|-------|--------|
| (A) 7 | (B) 8 |
| (C) 9 | (D) 10 |

Q.No.104: The median of the numbers 5, 1, 8, 9, and 3 is:

- | | |
|-------|-------|
| (A) 3 | (B) 5 |
| (C) 8 | (D) 9 |

Q.No.105: Which of the following is not a measure of central tendency?

- | | |
|----------|------------|
| (A) Mean | (B) Median |
| (C) Mode | (D) Range |

Q.No.106: If the mean of five numbers is 12, the sum of the numbers is:

- | | |
|--------|--------|
| (A) 50 | (B) 55 |
| (C) 60 | (D) 65 |

Q.No.107: The median of the following data set: 2, 4, 6, 8, 10, is:

- | | |
|-------|-------|
| (A) 6 | (B) 5 |
| (C) 7 | (D) 8 |

Q.No.108: What is the square root of 144?

- | | |
|--------|--------|
| (A) 14 | (B) 12 |
| (C) 16 | (D) 10 |

Q.No.109: If the sum of two angles is 180° , what type of angles are they?

- | | |
|-------------------|-------------------|
| (A) Complementary | (B) Supplementary |
| (C) Acute | (D) Right |

Q.No.110: What is the perimeter of a rectangle with length 8 cm and width 5 cm?

- | | |
|-----------|-----------|
| (A) 25 cm | (B) 30 cm |
| (C) 16 cm | (D) 40 cm |

Q.No.111: The area of a circle is 154 square cm. What is the radius?

- | | |
|----------|-----------|
| (A) 7 cm | (B) 10 cm |
| (C) 6 cm | (D) 5 cm |

Q.No.112: What is the volume of a cube with side length 4 cm?

- | | |
|-----------------------|-----------------------|
| (A) 64 cm^3 | (B) 16 cm^3 |
| (C) 12 cm^3 | (D) 32 cm^3 |

Q.No.113: What is the median of the numbers 4, 7, 9, 12, and 15?

- (A) 7 (B) 9
- (C) 12 (D) 15

Q.No.114: What is the mode of the numbers 2, 3, 5, 5, 7, 7, 7, 8?

- (A) 5 (B) 7
- (C) 8 (D) 3

Q.No.115: If the sum of angles in a polygon is 1080° , how many sides does the polygon have?

- (A) 8 (B) 10
- (C) 12 (D) 14

Q.No.116: Which of the following is a property of parallel lines?

- (A) They intersect at a point
- (B) They have the same slope
- (C) They form right angles with a transversal
- (D) They are perpendicular to each other

Q.No.117: What is the value of $\log 100$?

- (A) 1 (B) 10
- (C) 2 (D) 100

Q.No.118: What is the value of $4!$?

- (A) 24 (B) 12
- (C) 16 (D) 6

Q.No.119: What is the area of a trapezoid with bases 10 cm and 6 cm, and height 5 cm?

- (A) 30 cm^2 (B) 40 cm^2
- (C) 50 cm^2 (D) 25 cm^2

Q.No.120: What is the greatest common divisor (GCD) of 24 and 36?

- (A) 6 (B) 12
- (C) 18 (D) 24

Q.No.121: What is the sum of the first 10 positive integers?

- | | |
|--------|---------|
| (A) 50 | (B) 100 |
| (C) 55 | (D) 45 |

Q.No.122: What is the sum of the angles of a quadrilateral?

- | | |
|-----------------|-----------------|
| (A) 180° | (B) 360° |
| (C) 270° | (D) 240° |

Q.No.123: What is the surface area of a sphere with radius 4 cm?

- | | |
|--------------------------|--------------------------|
| (A) $16\pi \text{ cm}^2$ | (B) $8\pi \text{ cm}^2$ |
| (C) $64\pi \text{ cm}^2$ | (D) $32\pi \text{ cm}^2$ |

Q.No.124: What is the value of $2x+3=12$?

- | | |
|-------|-------|
| (A) 4 | (B) 5 |
| (C) 6 | (D) 3 |

Q.No.125: What is the mean of the numbers 5, 8, 10, 12, and 15?

- | | |
|--------|--------|
| (A) 10 | (B) 9 |
| (C) 11 | (D) 12 |

Q.No.126: What is the length of the hypotenuse of a right triangle with legs 6 cm and 8 cm?

- | | |
|-----------|-----------|
| (A) 10 cm | (B) 12 cm |
| (C) 8 cm | (D) 7 cm |

Q.No.127: What is the sum of the squares of the first three prime numbers?

- | | |
|--------|--------|
| (A) 50 | (B) 60 |
| (C) 38 | (D) 41 |

Q.No.128: What is the perimeter of a triangle with sides 3 cm, 4 cm, and 5 cm?

- | | |
|-----------|-----------|
| (A) 12 cm | (B) 10 cm |
| (C) 14 cm | (D) 8 cm |

Q.No.129: What is the area of a triangle with base 10 cm and height 5 cm?

- | | |
|-----------------------|------------------------|
| (A) 25 cm^2 | (B) 30 cm^2 |
| (C) 50 cm^2 | (D) 100 cm^2 |

Q.No.130: What is the median of the numbers 1, 3, 5, 7, and 9?

- | | |
|-------|-------|
| (A) 5 | (B) 3 |
| (C) 7 | (D) 6 |

Q.No.131: What is the solution to the equation $2x + 5 = 15$?

- | | |
|-------|--------|
| (A) 5 | (B) 7 |
| (C) 6 | (D) 10 |

Q.No.132: What is the sum of the interior angles of a polygon with 6 sides?

- | | |
|-----------------|-----------------|
| (A) 720° | (B) 540° |
| (C) 360° | (D) 480° |

Q.No.133: What is the value of $3x - 7 = 11$?

- | | |
|-------|-------|
| (A) 5 | (B) 9 |
| (C) 6 | (D) 8 |

Q.No.134: What is the perimeter of a square with side length 4 cm?

- | | |
|-----------|-----------|
| (A) 16 cm | (B) 12 cm |
| (C) 8 cm | (D) 10 cm |

Q.No.135: What is the greatest common divisor (GCD) of 36 and 60?

- | | |
|--------|--------|
| (A) 12 | (B) 15 |
| (C) 6 | (D) 9 |

Q.No.136: What is the solution to the equation $x - 3 = 4$?

- | | |
|-------------|--------------|
| (A) $x = 7$ | (B) $x = 3$ |
| (C) $x = 1$ | (D) $x = -1$ |

Q.No.137: What is the surface area of a sphere with radius 5 cm?

- | | |
|---------------------------|--------------------------|
| (A) $25\pi \text{ cm}^2$ | (B) $50\pi \text{ cm}^2$ |
| (C) $100\pi \text{ cm}^2$ | (D) $75\pi \text{ cm}^2$ |

Q.No.138: What is the area of a circle with radius 3 cm?

- | | |
|-------------------------|--------------------------|
| (A) $3\pi \text{ cm}^2$ | (B) $6\pi \text{ cm}^2$ |
| (C) $9\pi \text{ cm}^2$ | (D) $12\pi \text{ cm}^2$ |

Q.No.139: What is the volume of a cylinder with radius 3 cm and height 5 cm?

- | | |
|--------------------------|--------------------------|
| (A) $45\pi \text{ cm}^3$ | (B) $27\pi \text{ cm}^3$ |
| (C) $15\pi \text{ cm}^3$ | (D) $9\pi \text{ cm}^3$ |

Q.No.140: What is the value of 10! (10 factorial)?

- | | |
|------------|-------------|
| (A) 100000 | (B) 500000 |
| (C) 1000 | (D) 3628800 |

Q.No.141: What is the square of 16?

- | | |
|---------|---------|
| (A) 256 | (B) 128 |
| (C) 64 | (D) 32 |

Q.No.142: What is the sum of the first 5 even numbers?

- | | |
|--------|--------|
| (A) 30 | (B) 25 |
| (C) 20 | (D) 10 |

Q.No.143: What is the solution to $2x + 5 = 13$?

- | | |
|-------|-------|
| (A) 1 | (B) 3 |
| (C) 5 | (D) 4 |

Q.No.144: What is the value of $7 \times (4+2)$?

- | | |
|--------|--------|
| (A) 28 | (B) 30 |
| (C) 36 | (D) 42 |

Q.No.145: What is the value of $7+15 - 3$?

- | | |
|--------|--------|
| (A) 20 | (B) 19 |
| (C) 25 | (D) 21 |

Q.No.146: Simplify $2(3+5) - 6$

- | | |
|--------|--------|
| (A) 10 | (B) 12 |
| (C) 14 | (D) 16 |

Q.No.147: What is $15 \times 2 - 8 \div 4$?

- | | |
|--------|--------|
| (A) 25 | (B) 22 |
| (C) 28 | (D) 30 |

Q.No.148: Simplify: $5+3 \times 4-6$

- | | |
|--------|--------|
| (A) 15 | (B) 17 |
| (C) 13 | (D) 11 |

Q.No.149: What is the definition of an integer?

- (A) A number that can be written as a fraction
- (B) A whole number that is either positive or negative, including zero
- (C) A number that is a multiple of 2
- (D) A number with a decimal part

Q.No.150: What is the definition of a prime number?

- (A) A number that is divisible by 2
- (B) A number that can only be divided by 1 and itself
- (C) A number greater than 10
- (D) A number that has more than two factors

Q.No.151: What comes once in a minute, twice in a moment, but never in a thousand years?

- | | |
|--------------------|------------------|
| (A) The letter 'M' | (B) The number 1 |
| (C) The number 0 | (D) A second |

Q.No.152: How many times can you subtract 5 from 25?

- | | |
|-----------------|----------------|
| (A) Twice | (B) Once |
| (C) Three times | (D) Four times |

Q.No.153: What is the next number in the sequence: 3, 9, 27, 81, ___?

- | | |
|---------|---------|
| (A) 243 | (B) 162 |
| (C) 216 | (D) 108 |

Q.No.154: If you're running a race and pass the person in second place, what place are you in now?

- | | |
|------------|------------|
| (A) Second | (B) First |
| (C) Third | (D) Fourth |

Q.No.155: What has many teeth but cannot bite?

- | | |
|--------------|------------|
| (A) A saw | (B) A comb |
| (C) A zipper | (D) A key |

Q.No.156: Which number is odd?

- | | |
|-------|-------|
| (A) 0 | (B) 1 |
| (C) 2 | (D) 4 |

Q.No.157: What is the number that is 1 more than the sum of its digits?

- | | |
|--------|--------|
| (A) 21 | (B) 10 |
| (C) 9 | (D) 11 |

Q.No.158: If you take a leaf from a tree, what do you get?

- | | |
|--------------|--------------|
| (A) A branch | (B) A twig |
| (C) A leaf | (D) A flower |

Q.No.159: Which number doesn't belong: 2, 5, 10, 17, 26?

- | | |
|--------|--------|
| (A) 2 | (B) 5 |
| (C) 10 | (D) 17 |

Q.No.160: Which of the following is the next in the series: A, C, F, J, O, ___?

- | | |
|-------|-------|
| (A) P | (B) N |
| (C) M | (D) K |

Q.No.161: What is so fragile that saying its name breaks it?

- | | |
|--------------|---------------|
| (A) Glass | (B) A promise |
| (C) A secret | (D) Silence |

Q.No.162: A man gave one son 10 cents and another son was given 15 cents. What time is it?

- | | |
|--------------|--------------|
| (A) 10:15:00 | (B) 02:15:00 |
| (C) 01:15:00 | (D) 12:15:00 |

Q.No.163: If you have three apples and you take away two, how many apples do you have?

- | | |
|-------|-------|
| (A) 1 | (B) 2 |
| (C) 3 | (D) 0 |

Q.No.164: What has a bark but doesn't bite?

- | | |
|-------------|------------|
| (A) A tree | (B) A dog |
| (C) A chair | (D) A lion |

Q.No.165: I can be cracked, made, told, and played. What am I?

- | | |
|------------|-------------|
| (A) A joke | (B) A ball |
| (C) A toy | (D) A story |

Q.No.166: I am a box without hinges, key, or lid, yet golden treasure inside is hid. What am I?

- | | |
|------------|-------------|
| (A) A safe | (B) A gift |
| (C) An egg | (D) A chest |

Q.No.167: Which number logically replaces the question mark? 1, 4, 9, 16, 25, ?

- | | |
|--------|--------|
| (A) 35 | (B) 36 |
| (C) 40 | (D) 45 |

Q.No.168: What time is it when the clock strikes 13?

- | | |
|---------------|-----------------|
| (A) 1 o'clock | (B) 12 o'clock |
| (C) 13:00:00 | (D) It's broken |

Q.No.169: Which number is missing in the following sequence? 5, 10, 15, __, 25

- | | |
|--------|--------|
| (A) 20 | (B) 30 |
| (C) 10 | (D) 40 |

Q.No.170: John's mother has four children. Three of them are named North, East, and South. What is the name of the fourth child?

- | | |
|----------|-----------|
| (A) West | (B) John |
| (C) East | (D) North |

Q.No.171: Which number logically replaces the question mark? 1, 3, 5, 7, __

- | | |
|--------|-------|
| (A) 8 | (B) 9 |
| (C) 10 | (D) 6 |

Q.No.172: Which number should replace the question mark? 8, 6, 9, 7, 10, 8, __?

- | | |
|--------|--------|
| (A) 10 | (B) 12 |
| (C) 9 | (D) 11 |

Q.No.173: A grandfather, his son, and his grandson go to a restaurant. Each one orders one hamburger. How many hamburgers are needed?

- | | |
|-------|-------|
| (A) 3 | (B) 4 |
| (C) 5 | (D) 6 |

Q.No.174: If two pencils cost 20 cents, how much do 10 pencils cost?

- | | |
|---------------|------------------|
| (A) 50 cents | (B) 1 dollar |
| (C) 2 dollars | (D) 1.50 dollars |

Q.No.175: Which of the following is an odd number?

- | | |
|-------|-------|
| (A) 2 | (B) 6 |
| (C) 8 | (D) 7 |

Q.No.176: If a triangle has three equal sides, what type of triangle is it?

- | | |
|---------------|-----------------|
| (A) Scalene | (B) Equilateral |
| (C) Isosceles | (D) Right |

Q.No.177: The more you take, the more you leave behind. What am I?

- | | |
|-----------|---------------|
| (A) Time | (B) Footsteps |
| (C) Money | (D) Memories |

Q.No.178: What is light as a feather, yet the strongest man can't hold it for more than 5 minutes?

- | | |
|------------|-----------|
| (A) Air | (B) Water |
| (C) Breath | (D) Sand |

Q.No.179: What comes down but never goes up?

- | | |
|----------|-------------|
| (A) Rain | (B) Age |
| (C) Snow | (D) Gravity |

Q.No.180: What has an eye but cannot see?

- | | |
|--------------|-------------|
| (A) A needle | (B) A storm |
| (C) A potato | (D) A fish |

Q.No.181: What can be touched but never seen?

- | | |
|-----------|-----------|
| (A) Sound | (B) Light |
| (C) Air | (D) Heat |

Q.No.182: I can be long or short, I can be grown or bought, I can be painted or left bare, I can be round or square. What am I?

- | | |
|-------------|-------------|
| (A) A brush | (B) A stick |
| (C) A pole | (D) A nail |

Q.No.183: I am something. I am often part of your day, but I am never seen. What am I?

- | | |
|-------------|--------------|
| (A) Time | (B) A shadow |
| (C) A dream | (D) Air |

Q.No.184: What gets bigger the more you take away from it?

- | | |
|-------------|----------------|
| (A) A hole | (B) A balloon |
| (C) A river | (D) A mountain |

Q.No.185: What can travel around the world while staying in the corner?

- | | |
|-------------|--------------|
| (A) A coin | (B) A letter |
| (C) A stamp | (D) A plane |

Q.No.186: I am a word that's backwards and forwards the same. What am I?

- | | |
|-----------|----------------------|
| (A) Noon | (B) Madam |
| (C) Civic | (D) All of the above |

Q.No.187: I am always moving but never get tired. What am I?

- | | |
|---------------|--------------|
| (A) The ocean | (B) The wind |
| (C) Time | (D) A clock |

Q.No.188: What has a neck but no head?

- | | |
|--------------|---------------|
| (A) A bottle | (B) A sweater |
| (C) A guitar | (D) A shirt |

Q.No.189: Which of these is not like the others?

- | | |
|------------|-----------|
| (A) Violin | (B) Piano |
| (C) Guitar | (D) Drums |

Q.No.190: What is something you can hold without using your hands?

- | | |
|--------------|---------------|
| (A) A breath | (B) A thought |
| (C) A dream | (D) A memory |

Q.No.191: A man gave one son 10 cents and another son was given 15 cents. What time is it?

- | | |
|--------------|--------------|
| (A) 01:25:00 | (B) 01:05:00 |
| (C) 10:10:00 | (D) 10:15:00 |

Q.No.192: A man is pushing his car along a road when he comes to a hotel. He shouts, "I'm bankrupt!" Why?

- | | |
|-----------------------|---------------------------|
| (A) He lost a game | (B) He's playing Monopoly |
| (C) He's out of money | (D) He's just traveling |

Q.No.193: If a plane crashes on the border of the U.S. and Canada, where do they bury the survivors?

- | | |
|-------------|--------------------|
| (A) U.S. | (B) Canada |
| (C) Nowhere | (D) Both countries |

Q.No.194: How can a man go 8 days without sleep?

- | | |
|--------------------------|------------------------------|
| (A) Sleep during the day | (B) By not working |
| (C) He sleeps at night | (D) He doesn't need to sleep |

Q.No.195: If you have a match, a candle, a fireplace, and a gas stove, which would you light first?

- | | |
|-------------------|-------------------|
| (A) The match | (B) The candle |
| (C) The gas stove | (D) The fireplace |

Q.No.196: There are 6 eggs in a basket. Six people each take one egg. How is it possible that one egg is left?

- (A) One person didn't take an egg
- (B) The last person took the basket with the last egg
- (C) The eggs are broken
- (D) The last person didn't want an egg

Q.No.197: If two's company and three's a crowd, what are four and five?

- | | |
|-------------|--------------|
| (A) Nine | (B) A team |
| (C) A crowd | (D) A family |

Q.No.198: I am taken from a mine, and shut up in a wooden case, from which I am never released, and yet I am used by almost every person. What am I?

- | | |
|---------------|--------------|
| (A) A diamond | (B) A pencil |
| (C) A key | (D) A book |

Q.No.199: If you have a bowl with six apples and you take away four, how many do you have?

- | | |
|-------|-------|
| (A) 2 | (B) 4 |
| (C) 6 | (D) 3 |

Q.No.200: A doctor gives you three pills and tells you to take one every half hour. How long will it take before you have taken all three pills?

- | | |
|-------------|----------------|
| (A) 1 hour | (B) 1.5 hours |
| (C) 2 hours | (D) 30 minutes |

GRADE 11-12

Q.No.1: C	Q.No.51: C	Q.No.101: A	Q.No.151: A
Q.No.2: B	Q.No.52: C	Q.No.102: B	Q.No.152: B
Q.No.3: C	Q.No.53: C	Q.No.103: A	Q.No.153: A
Q.No.4: B	Q.No.54: C	Q.No.104: B	Q.No.154: A
Q.No.5: D	Q.No.55: B	Q.No.105: D	Q.No.155: B
Q.No.6: B	Q.No.56: C	Q.No.106: C	Q.No.156: B
Q.No.7: C	Q.No.57: B	Q.No.107: A	Q.No.157: A
Q.No.8: C	Q.No.58: A	Q.No.108: B	Q.No.158: C
Q.No.9: C	Q.No.59: C	Q.No.109: B	Q.No.159: D
Q.No.10: A	Q.No.60: B	Q.No.110: B	Q.No.160: A
Q.No.11: B	Q.No.61: C	Q.No.111: A	Q.No.161: D
Q.No.12: C	Q.No.62: B	Q.No.112: A	Q.No.162: A
Q.No.13: B	Q.No.63: C	Q.No.113: B	Q.No.163: B
Q.No.14: C	Q.No.64: B	Q.No.114: B	Q.No.164: A
Q.No.15: B	Q.No.65: C	Q.No.115: B	Q.No.165: A
Q.No.16: C	Q.No.66: A	Q.No.116: B	Q.No.166: C
Q.No.17: C	Q.No.67: B	Q.No.117: C	Q.No.167: B
Q.No.18: B	Q.No.68: D	Q.No.118: A	Q.No.168: D
Q.No.19: C	Q.No.69: C	Q.No.119: A	Q.No.169: A
Q.No.20: B	Q.No.70: C	Q.No.120: B	Q.No.170: B
Q.No.21: C	Q.No.71: B	Q.No.121: C	Q.No.171: B
Q.No.22: B	Q.No.72: A	Q.No.122: B	Q.No.172: C
Q.No.23: B	Q.No.73: C	Q.No.123: A	Q.No.173: A
Q.No.24: C	Q.No.74: C	Q.No.124: B	Q.No.174: B
Q.No.25: B	Q.No.75: B	Q.No.125: A	Q.No.175: D
Q.No.26: D	Q.No.76: C	Q.No.126: A	Q.No.176: B
Q.No.27: C	Q.No.77: A	Q.No.127: C	Q.No.177: B
Q.No.28: C	Q.No.78: B	Q.No.128: A	Q.No.178: C
Q.No.29: C	Q.No.79: B	Q.No.129: B	Q.No.179: B
Q.No.30: B	Q.No.80: B	Q.No.130: A	Q.No.180: A
Q.No.31: C	Q.No.81: A	Q.No.131: B	Q.No.181: C
Q.No.32: A	Q.No.82: A	Q.No.132: B	Q.No.182: D
Q.No.33: B	Q.No.83: B	Q.No.133: C	Q.No.183: A
Q.No.34: A	Q.No.84: B	Q.No.134: A	Q.No.184: A
Q.No.35: B	Q.No.85: A	Q.No.135: A	Q.No.185: C
Q.No.36: C	Q.No.86: B	Q.No.136: A	Q.No.186: D
Q.No.37: B	Q.No.87: B	Q.No.137: A	Q.No.187: B
Q.No.38: A	Q.No.88: C	Q.No.138: C	Q.No.188: A
Q.No.39: B	Q.No.89: C	Q.No.139: A	Q.No.189: D
Q.No.40: B	Q.No.90: D	Q.No.140: D	Q.No.190: D
Q.No.41: C	Q.No.91: B	Q.No.141: A	Q.No.191: D
Q.No.42: B	Q.No.92: D	Q.No.142: A	Q.No.192: B
Q.No.43: C	Q.No.93: B	Q.No.143: D	Q.No.193: C
Q.No.44: B	Q.No.94: C	Q.No.144: D	Q.No.194: C
Q.No.45: C	Q.No.95: B	Q.No.145: B	Q.No.195: A
Q.No.46: D	Q.No.96: B	Q.No.146: A	Q.No.196: B
Q.No.47: B	Q.No.97: C	Q.No.147: B	Q.No.197: A
Q.No.48: A	Q.No.98: B	Q.No.148: D	Q.No.198: B
Q.No.49: C	Q.No.99: C	Q.No.149: B	Q.No.199: B
Q.No.50: B	Q.No.100: C	Q.No.150: B	Q.No.200: A



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