

- The planet which has the shortest period of revolution:
 - Pluto
 - Venus
 - Mercury
 - Earth
- Days and night are equal on
 - 21st March
 - 21st June
 - 29th November
 - 25th December
- Katabatic winds:
 - flow over ocean
 - flow from hot region to cold region
 - flow as a cold air from higher to lower region
 - None of these
- Coffee tree is a native of:
 - Pakistan
 - Japan
 - Indonesia
 - Ethiopia
- Penicillin is produced at:
 - Bangalore
 - Alwaye
 - Poona
 - Pimpri
- Metal which is generally mixed with gold while making ornament is:
 - zinc
 - iron
 - silver
 - copper
- In an atom no two electrons can have all the four quantum number identical is known as:
 - Pauli principle
 - Hund's principle
 - Aufbau principle
 - Avogadro law
- A photographic plate uses
 - Ag Br
 - AgCl
 - Ag NO_3
 - K Br
- The term "Carat" is used to express the purity of gold. The purest form of gold is:
 - 18 carat
 - 20 carat
 - 24 carat
 - 22 carat
- If a shell from canon burst in the air, the total kinetic energy:
 - increases
 - decreases
 - remain constant
 - may increase or decrease
- In mammals, the developing embryo is connected

- with placenta by
- mems
 - allantois
 - amnions
 - umbilical cord
- Which of following is the largest part of human brain?
 - Cerebellum
 - Mid-brain
 - Cerebrum
 - Medulla oblongata
 - Plant hormone that produces cell division:
 - auxins
 - gibberellins
 - kinins
 - dormins
 - Water cannot be used as a thermometric substance because:
 - water is transparent
 - water has anomalous expansion
 - the boiling point of water is quite low
 - water wets the solid
 - A fresh egg sinks in pure water but floats in saline water. This is because:
 - saline water is denser than pure water
 - saline water is lighter than pure water
 - viscosity of saline water is higher than that of pure water
 - surface tension of saline water is lower than that of pure water
 - Bosch process is used to prepare
 - H_2O
 - O_2
 - N_2
 - H_2
 - The enzyme "Alcohol dehydrogenate" convert acetaldehyde to:
 - CH_4
 - CH_3-CH_3
 - $\text{C}_2\text{H}_5\text{OH}$
 - None of these
 - Oxidation number of Cl in ClO_3^- is:
 - +6
 - +7
 - 7
 - 6

19. Which is the most reducing agent?

- A. HI B. HCl
C. HBr D. H₂

20. The definition of electric field is:

A. $E = \frac{1}{4\pi\epsilon_0} \frac{Q}{r^2} \hat{r}$; $Q = \sum_{j=1}^N q_j$

B. $E = \frac{1}{4\pi\epsilon_0} \sum_{j=1}^N \frac{q_j}{r_j^2} \hat{r}_j$

C. $E = \frac{1}{4\pi\epsilon_0} \sum_{j=1}^N \frac{q_j}{r_j^3} \hat{r}_j$

D. $E = \lim_{q \rightarrow 0} F/q$

21. An electric kettle is marked 500 W, 230 V and was forced to bring 1 kg of water at 15°C to boiling point in 15 minute. The heat efficiency of the kettle is:

- A. 79% B. 85%
C. 64% D. 90%

22. Given the line $y = \frac{3}{4}x + 6$ and another line L parallel to this line and at a distance of 4 unit from it. Then a possible equation of L is:

- A. $y = \frac{3}{4}x$ B. $y = \frac{3}{4}x + 1$

C. $y = \frac{3}{4}x - 2$ D. $y = \frac{3}{4}x + 10$

23. The quadratic equation with real coefficient whose one of root is $1 - i$, is:

- A. $x^2 - 2x + 1 = 0$ B. $x^2 - 2x + 2 = 0$
C. $x^2 - 2x = 0$ D. $x^2 - 2x - 1 = 0$

24. $x^2 + x^2 + 3x + 4 = 0$ has a real root in the interval:

- A. $-2, -1$ B. $-1, 0$
C. $(0, 1)$ D. $1, 2$

25. 2, 10, 30, 68, digit is:

- A. 78 B. 62
C. 130 D. None of these

26. Following is not the version of Fortran:

- A. Fortran IV B. Fortran 77
C. Fortran 6 D. None of these

27. PASCAL is the refined form of:

- A. ALGOL 50 B. C++
C. COBOL D. None of these

28. 89 can be written as:

- A. 1001101 B. 1101101
C. 1001001 D. 1001000

29. Byte is a group of:

- A. 6 bits B. 7 bits
C. 8 bits D. 10 bits

30. Magnetic tape is used for storing data and files. The most common is:

- A. 1 inch B. ½ inch
C. 2 inch D. 2½ inch

ANSWERS

1	2	3	4	5	6	7	8	9	10
C	A	C	D	D	D	A	A	C	A
11	12	13	14	15	16	17	18	19	20
D	C	C	B	A	D	C	B	A	C
21	22	23	24	25	26	27	28	29	30
A	B	B	C	C	C	A	A	C	B