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Technical Paper Goa
23 Feb 2020

50 Questions

Que. 1 1971 war for liberation of Bangladesh was fought between _____.

1. India and China
2. China and Pakistan
3. Nepal and Bhutan
4. India and Pakistan

Que. 2 Hirakund Dam is located in which state?

1. Bihar
2. Orissa
3. Maharashtra
4. Punjab

Que. 3 Name the ruler who constructed the Grant Trunk Road?

1. Ashoka
2. Shivaji
3. Sher Shah
4. Akbar

Que. 4 Which is the smallest planet in our solar system?

1. Mercury
2. Earth
3. Mars
4. Venus

Que. 5 Who was the first education minister of independent India?

1. Chakravarty Rajgopalachari
2. Pandit Jawahar Lal Nehru
3. Dr. Rajendra Prasad
4. Maulana Abul Kalam Azad

Que. 6 Raju walks 10 km North towards point 'P', then the turns to his right and walks 3 km, transfer he turns to his right again and walks 6 km. How far is he now from the starting point?

1. 2 km
2. 4 km
3. 10 km
4. 5 km

Que. 7 In a certain code language CLOCK is written as KCOLC. How will STEPS be written in that code?
1. SPTES
2. STESP
3. SPETS
4. SPEST

Que. 8 From the given options fill the blank space in series: A, C, F, ( ), O
1. I
2. J
3. L
4. K

Que. 9 One term in the number series is wrong. Find the wrong term 5, 10, 40, 80, 320, 550, 2560
1. 80
2. 320
3. 2560
4. 550

Que. 10 From the given options fill the blank space in the series : DEF, DEF_2, DE_2F_2, (____), $D_2E_2F_3$
1. $D_3E_3F_2$
2. $D_2E_2F_2$
3. D_2EF_3
4. D_2EF3

Que. 11 If a wire of resistance R is melted and recast to half its length then what will be the new resistance of the wire?
1. R
2. R/2
3. R/4
4. >2R

Que. 12 A satellite moving in a circular orbit around earth has a total (kinetic + potential) energy E_o. Its potential energy will be ____
1. $2E_o$
2. E_o
3. $E_o/4$
4. $E_o/2$

Que. 13 Beta particles from various radioactive sources have _____?

1. Same Deflection
2. Same speed
3. Same Charge
4. Same Mass

Que. 14 The value of kinetic energy depends on _____?

1. Mass and velocity
2. Energy
3. Only velocity
4. Only Mass

Que. 15 When temperature of metal is increased, its resistance will _____?

1. decrease
2. increase
3. either increase or decrease
4. have no change

Que. 16 At sun rise and sun set the sky near the sun looks red due to _____?

1. Dispersion of Light
2. Scattering of Light
3. Reflection of Light
4. Diffusion of Light

Que. 17 What is the unit of force in a CGS system?

1. Erg
2. Dyne
3. Pascal
4. cm^2

Que. 18 A virtual image larger than the object can be produced by which type of mirror?

1. Convex Mirror
2. Trick Mirror
3. Concave Mirror
4. Plane Mirror

Que. 19 One 'Newton' unit of force is equal to _____?

1. 1 kg. m/s^2
2. 0.5 kg. m/s^2
3. 4.9 kg. m/s^2
4. 9.8 kg. m/s^2

Que. 20   Speed of sound in water was found to be 1440 m/s. If the wave length is 144 m then find the frequency?

1. 100 Hz
2. 10 Hz
3. 1/10 Hz
4. 1 Hz

Que. 21   A coil of wire having 5 turns has an inductance L. What will be the inductance of the similar coil having 20 turns?

1. L/4
2. 16 L
3. 4 L
4. L/16

Que. 22   Light with longest wave length in visible spectrum is _____?

1. Green
2. Red
3. Yellow
4. Violet

Que. 23   A stone thrown upwards with an initial velocity of 60 m/s. What is the maximum height that the stone will reach?

1. 150 m
2. 48 m
3. 155 m
4. 180 m

Que. 24   The angle between the magnetic axis and geographical axis of the earth is _____?

1. 10.3°
2. 13.6°
3. 19°
4. 11.3°

Que. 25   The upward force exerted by the liquid displaced by the body when it is placed inside the liquid is called

1. Centripetal Force
2. Force of Friction
3. Gravitational Force
4. Buoyant Force

Que. 26 A and B can do work in 12 days. B and C in 15 days. C and A in 20 days. If A, B and C work together they can complete the work in how many days?

1. 5 days
2. 10 days
3. $7\frac{5}{6}$ days
4. $12\frac{2}{3}$ days

Que. 27 If rate of sugar increases by 25%, then family has to reduce its consumption by what % to keep the expenditure same?

1. 30%
2. 25%
3. 20%
4. 15%

Que. 28 What is the greatest number that will divide 366, 513 and 324 leaving the same remainder in each case?

1. 27
2. 21
3. 18
4. 42

Que. 29 The average age of four brothers is 12 years. If the age of their mother is included in their age then the average age increase by 5 years. Find the age of their mother?

1. 51 years
2. 48 years
3. 37 years
4. 43 years

Que. 30 A man rows a boat at 13 km/hr against the stream and 26 km/hr with the stream. Find the speed of the stream.

1. 1 km/hr
2. 2.5 km/hr
3. 6.5 km/hr
4. 2 km/hr

Que. 31 A train 100 m long is running at speed of 18 km/h. In what time will it pass a man standing on the platform?

1. 41 s
2. 20 s
3. 25 s
4. 30 s

Que. 32 The height of a cone whose area of the base is 30 m^2 and volume is 500 m^3, is _____?

1. 20 m
2. 40 m
3. 50 m
4. 60 m

Que. 33 Seven years ago ratio of the ages of father and son was 4 : 1. Seven years hence from now the ratio of their ages will be 2 : 1. What is the ratio of their present ages?

1. 7 : 2
2. 3 : 1
3. 5 : 2
4. 7 : 3

Que. 34 2 tables and 3 chairs together cost Rs. 2000 whereas 3 tables and 2 chairs together cost Rs. 2500. What will be the total cost of 1 table and 5 chairs?

1. Rs. 1700
2. Rs. 1900
3. Rs. 1500
4. Rs. 800

Que. 35 By selling an article for Rs. 336, a man gains Rs. 36, in how many rupees should he sell the article to get 15% profit?

1. Rs. 315
2. Rs. 400
3. Rs. 375
4. Rs. 345

Que. 36 What will be the compound interest on Rs. 6000 for 3 years at 8% for first year, 10% for second year and 12% for third year?

1. Rs. 1982.936
2. Rs. 1983.250
3. Rs. 1983.36
4. Rs. 1982.185

Que. 37 What is the least number added to 8961, to make it exactly divisible by 84?

1. 27
2. 47
3. 41
4. 57

Que. 38 In what time a sum of Rs. 4000 will yield a simple interest of Rs. 1200 at 12% per annum?

1. 1 year
2. 2.5 years
3. 3 years
4. 2 years

Que. 39 The length and breadth of a rectangular area is 25 cm and 15 cm. Find the ratio of its length and perimeter?

1. 5 : 16
2. 2 : 5
3. 5 : 3
4. 2 : 3

Que. 40 On selling an article for Rs. 329, a dealer lost 6%. What will be the cost price of the article?

1. Rs. 348.74
2. Rs. 310.37
3. Rs. 350
4. Rs. 335

Que. 41 Elements having same atomic mass number and different atomic numbers are called _____?

1. None of these
2. Isotopes
3. Isobar
4. Isotonic

Que. 42 Which of the following metals will not displace H_2 gas form dilute H_2SO_4 ?

1. Zinc
2. Iron
3. Aluminium
4. Copper

Que. 43 The distance between two adjacent carbon atoms is the greatest in _____?

1. Ethyne
2. Benzene
3. Ethane
4. Butane

Que. 44 The formula of Ozone gas is _____?

1. O_3

2. O_2

3. O_4

4. O

Que. 45 | The valency of noble gas element is _____?
1.   3
2. 1
3. 0
4. 2

Que. 46 | A colourless poisonous gas, which develops during bluming of coal, is _____?
1.   Methane
2. Nitrogen
3. Carbon Dioxide
4. Carbon Monoxide

Que. 47 | Anaemic patient are deficient in _____?
1.   Iron
2. Calcium
3. Magnesium
4. Iodine

Que. 48 | Maximum co-valency of Sulphur is _____.
1.   6
2. 2
3. 4
4. 8

Que. 49 | What is the common name of Sodium Bi-Carbonate?
1.   Common Salt
2. Washing Soda
3. Drinking Soda
4. Baking Soda

Que. 50 | Nitrogen in water is commonly found in the form of _____?
1.   Nitrate
2. Nitric Oxide
3. Nitrite
4. Nitrous Oxide