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Technical Paper
[IRO Delhi] - 2020

50 Questions

Que. 1 Who is known as the Missile Man of India?
1. Dr. Sarabhai
2. Dr. Abdul Kalam
3. Jagdish Chandra Bose
4. Homi Jahangir Baba

Correct Option **- 2**

Que. 2 By what name is Bal Gangadhar Tilak known?
1. Lokmanya
2. Mahatma
3. Iron Man
4. None of these

Correct Option **- 1**

Que. 3 Who is the author of Geet Govind?
1. Kalidas
2. Jaydev
3. Kabir
4. Ravidas

Correct Option **- 2**

Que. 4 When was Subhash Chandra Bose born?
1. 23 January
2. 2 October
3. 8 February
4. 3 June

Correct Option **- 1**

Que. 5 What is the meaning of the word Netherlands?
1. Best place
2. Low countries
3. Face of the ground
4. Land of the sunset

Correct Option **- 2**

Que. 6 Kitu walks towards East and then after walking some distance towards South he turns towards West and then turns to his left. In which direction is he walking now?
1. West

2. South

3. East

4. North

Correct Option - 2

Que. 7 In a code language BODY is written as APCZ then what will DELHI be written as?

1. BFKGI

2. CFKGI

3. CFKHI

4. CFKIH

Correct Option - 4

Que. 8 Select the option that is related to the third word in the same way as the second word is related to the first word

Mumbai : Maharashtra :: Trivandrum : _____

1. Sikkim

2. Kerala

3. Kolkata

4. Gujarat

Correct Option - 2

Que. 9 There is one wrong number in the series. Find the wrong number?

325, 259, 202, 160, 127, 105, 94

1. 259

2. 202

3. 94

4. 127

Correct Option - 2

Que. 10 Find the missing number from the given alternatives.

H, I, K, N, _____

1. R

2. O

3. Q

4. S

Correct Option - 1

Que. 11 How many liters are in a gallon?

1. 5

2. 4.546

3. 6.612

4. 5.125

Correct Option - **2**

Que. 12 | An object is dropped from a certain distance. When it is half the distance it contains _____.
1. Only potential energy
2. Zero energy
3. Only kinetic energy
4. Both kinetic and potential energy

Correct Option - **4**

Que. 13 | Myopia of the eye can be corrected by using _____.
1. None of these
2. Concave lens
3. Convex lens
4. Cylindrical lens

Correct Option - **2**

Que. 14 | If a system can do a work w in t time, how will its capacity P be represented?
1. w^2 / t
2. $w^2 \times t$
3. w / t
4. $w \times t$

Correct Option - **3**

Que. 15 | The mass of a body is 200 g and its velocity is 20 m/s, then the kinetic energy of the body will be _____.
1. 50 Joule
2. 20 Joule
3. 30 Joule
4. 40 Joule

Correct Option - **4**

Que. 16 | What is the unit of resistance?
1. Jule
2. Ampere
3. Coulomb
4. Ohm

Correct Option - **4**

Que. 17 | In which of the following medium will sound travel at the fastest speed?
1. In both liquid and gas
2. Solid

3. Liquid
4. Gas

Correct Option - **2**

Que. 18 | The value of force acting per unit area is called:
1. Jule
2. Force
3. Energy
4. Pressure

Correct Option - **4**

Que. 19 | What energy is stored in a dry cell?
1. Mechanical
2. Chemical
3. Pressure
4. Electrical

Correct Option - **2**

Que. 20 | 1 amu has energy equal to:
1. 1 Mev
2. 1 ev
3. 100 Mev
4. 931 Mev

Correct Option - **4**

Que. 21 | For what value does a runner lean inwards while running?
1. All are true
2. Strength
3. Centripetal force
4. Speed

Correct Option - **1**

Que. 22 | Curie is the temperature of electricity at which _____
1. Change in the magnetic properties of the metal
2. Matter becomes radioactive
3. None of these
4. The conductivity of the metal ends

Correct Option - **1**

Que. 23 | According to the law of conservation of energy, what happens during the process of change of energy?
1. Neither increase nor decrease

2. Changes in mechanical energy only in favor of heat

3. Always increase

4. Always decrease

Correct Option - **1**

Que. 24 Which of the following is related to Doppler effect?

1. Sound

2. Magnetism

3. Force

4. Motor

Correct Option - **1**

Que. 25 What is the value of Avogadro number?

1. 6.022×10^{23} mol^{-1}

2. 1.38×10^{23} mol^{-1}

3. 6.02×10^{3} mol^{-1}

4. None of these

Correct Option - **1**

Que. 26 What will be the HCF of 7/9, 14/185 and 7/10?

1. 14/2330

2. 7/3330

3. 7/2330

4. 14/3330

Correct Option - **2**

Que. 27 If $2 \cos^2\theta = 3/2$, find the value of θ?

1. 10°

2. 30°

3. 40°

4. 20°

Correct Option - **2**

Que. 28 Arun bought an article for Rs. 5000 and sells to Ravi at a profit of 10%, then what will be the costprice for Ravi ?

1. 5500

2. 5100

3. 6500

4. 6000

Correct Option - **1**

Que. 29   What is the circumference of a circle whose radius is 4.9 cm?

1.   30.8 cm
2.   30 cm
3.   14.7 cm
4.   10 cm

Correct Option **- 1**

Que. 30   The cost of 5 chairs and 8 tables is Rs. 6574 then what will be the cost of 10 chairs and 16 tables?

1.   None of these
2.   13435
3.   13146
4.   13674

Correct Option **- 1**

Que. 31   The average of three digits is 7 and the average of the first two digits is 5, then what will be the third number?

1.   3
2.   2
3.   7
4.   11

Correct Option **- 4**

Que. 32   What is the length of the side of a square field whose area is equal to the sum of the areas of two rectangular fields of dimensions 40 m × 20 m and 25 m × 17 m.

1.   30 cm
2.   32 cm
3.   37 cm
4.   35 cm

Correct Option **- 4**

Que. 33   If the product of two numbers is 1800 and HCF is 15, then the LCM will be?

1.   1605
2.   1595
3.   120
4.   800

Correct Option **- 3**

Que. 34   If the circumference of a circle is 30 cm more than its diameter, what will be its radius?

1.   7 cm
2.   6 cm
3.   None of these

4.   8 cm

Correct Option **- 1**

Que. 35 | The ratio of the two numbers is 7 : 11. If 7 is added to each number, the ratio becomes 2 : 3, then what is the smaller number?

1.   66
2.   39
3.   77
4.   49

Correct Option **- 4**

Que. 36 | If P(E) = 0.05 then the probability of 'not E' :

1.   11/20
2.   9/20
3.   19/20
4.   1/20

Correct Option **- 3**

Que. 37 | A man can do a piece of work in 16 days. In how many days will 4 men work together to complete the same work?

1.   6
2.   3
3.   4
4.   5

Correct Option **- 3**

Que. 38 | What will be the 10th term of the arithmetic progression 2, 7, 12, _____?

1.   245
2.   243
3.   297
4.   47

Correct Option **- 4**

Que. 39 | In one hour a boat goes 11 km downstream or 5 km upstream. Find the speed of the boat in still water in km/h.

1.   8 km/h
2.   9 km/h
3.   6 km/h
4.   5 km/h

Correct Option **- 1**

Que. 40 A and B can do a piece of work in 10 days and 15 days respectively, then in how many days will they together do the same work?

1. 6
2. 2
3. 3
4. 12

Correct Option - **1**

Que. 41 Which is the element with the smallest nucleus?

1. Oxygen
2. Helium
3. Hydrogen
4. Nitrogen

Correct Option - **2**

Que. 42 What is mainly included in Gobar Gas?

1. Butane
2. Carbon dioxide
3. Methane
4. Carbon monoxide

Correct Option - **3**

Que. 43 What is the atomic number of copper?

1. 27
2. 29
3. 18
4. 12

Correct Option - **2**

Que. 44 Traditional haze is a mixture of

1. Smoke + Fog + SO_2
2. Smoke + H_2O
3. Smoke + Fog + H_2O
4. Smoke + SO_2

Correct Option - **1**

Que. 45 Which acid is present in citric fruit?

1. Acetic acid
2. Citric acid
3. Oxalic acid
4. Formic acid

Correct Option - **2**

Que. 46 Gold (Swarna) is represented by a chemical symbol.
1.   GI
2. Au
3. Ag
4. As

Correct Option - **2**

Que. 47 Which of the following is the most electronegative element in the periodic table?
1.   N
2. Cl
3. F
4. O

Correct Option - **3**

Que. 48 _____ gas is used in bottled beverages like soda etc.
1. H_2S
2. CO_2
3. SO_2
4. NO

Correct Option - **2**

Que. 49 Which mineral salt is found in hemoglobin?
1.   None of these
2. Iron
3. Iodine
4. Phosphorus

Correct Option - **2**

Que. 50 What is the pH value of pure water?
1.   8
2. 7.4
3. 7
4. 6.6

Correct Option - **3**