



भारत सरकार :: अंतरिक्ष विभाग
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Section : Fireman A

Q.1 Which city is called as the Manchester of South India?

- A. Chennai
- B. Mysore
- C. Coimbatore
- D. Madurai

Ans ☒ 1. A
☒ 2. B
☒ 3. C
☒ 4. D

Question ID : 5834932447

Q.2 The gas which escapes out from many aerated soft drinks is

- A. N_2
- B. H_2
- C. CO_2
- D. O_2

Ans ☒ 1. A
☒ 2. B
☒ 3. C
☒ 4. D

Question ID : 5834932419

Q.3 The charge on electron is equal to

- A. 1.6×10^{-19} C of -ve charge
- B. 2.6×10^{-9} C of -ve charge
- C. 1.6×10^{-22} C of -ve charge
- D. 1.6×10^{-23} C of -ve charge

Ans ☒ 1. A
☒ 2. B
☒ 3. C
☒ 4. D

Question ID : 5834932431

Q.4 Who invented neutron?

- A. W C Rontgen
- B. James Chadwick
- C. Ernest Rutherford
- D. JJ Thompson

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834932423

Q.5 The voice box in human is called as

- A. Mouth
- B. Larynx
- C. Heart
- D. Pharynx

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834932440

Q.6 If we put Camphor in an open container, its amount keeps on decreasing due to the phenomenon of

- A. Evaporation
- B. Precipitation
- C. Condensation
- D. Sublimation

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834932426

Q.7 Least polluting fuel for a vehicle is

- A. Petrol
- B. Diesel
- C. CNG
- D. All of the above

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834932420

Q.8 Heat from the sun reaches to us by

- A. Radiation
- B. Conduction
- C. Convection
- D. All of the above

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834932400

Q.9 How many sides are there in a hexagon

- A. 4
- B. 6
- C. 5
- D. 8

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834932376

Q.10 Which of the following statement is always correct?

- A. An atom has equal number of electrons, protons and neutrons
- B. An atom has equal number of protons and neutrons
- C. An atom has equal number of electrons and protons
- D. An atom has equal number of electrons and neutrons

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834932424

Q.11 Which of the following is most suitable to prevent Static Electricity?

- A. Cotton
- B. Nylon
- C. Polyester
- D. Silk

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834932408

Q.12 An Electric bulb is connected to a 220 V generator. The current is 0.5 A. What is the power of the bulb?

- A. 440 W
- B. 110 W
- C. 55 W
- D. 0.0023 W

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834932397

Q.13 Which is the largest gland in human body?

- A. Pancreas
- B. Liver
- C. Gall bladder
- D. Small Intestine

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834932435

Q.14 Molecular weight of the water (H_2O) is

- A. 18
- B. 8
- C. 16
- D. 32

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834932416

Q.15 1 hectare is equal to

- A. 10 m^2
- B. 100 m^2
- C. 1000 m^2
- D. 10000 m^2

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834932383

Q.16 Name the alloy used for making permanent magnets

- A. Brass
- B. Bronze
- C. Alnico
- D. Duralumin

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834932409

Q.17 Main constituent of LPG is

- A. Methane
- B. Butane
- C. Ethane
- D. Kerosene

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834932427

Q.18 The Coldest region on the earth is called :

- A. Polar region
- B. Tropical region
- C. Planar region
- D. Coastal region

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834932442

Q.19 What is the study of science related to study of human skin is called

- A. Dermatology
- B. Cardiology
- C. Ortho
- D. Gynecology

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834932437

Q.20 Which one of the following is filled in the bulb of thermometer?

- A. Mercury
- B. Copper
- C. Silver
- D. Lead

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834932396

Q.21 If $x^2 + 1/x^2 = 623$, then the value of $x + 1/x$ is

- A. 20
- B. 25
- C. 27
- D. 30

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834932394

Q.22 Blood vessel that transports blood from the heart to the entire human body is _____.

- A. Artery
- B. Capillary
- C. Veins
- D. Nephrons

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834932439

Q.23 Which type of blood is called as Universal Donor?

- A. AB +
- B. AB –
- C. O +
- D. O –

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834932438

Q.24 Find the odd one out

- A. Taj Mahal
- B. The Colosseum
- C. Great wall of china
- D. Niagara falls

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834932446

Q.25 At the time of short circuit, the current in the circuit

- A. Reduces
- B. Does not change
- C. Increases heavily
- D. Varies continuously

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834932403

Q.26 Number of molecules in 8 g of Oxygen (O₂)

- A. 6.022×10^{23}
- B. 3.011×10^{23}
- C. 1.51×10^{23}
- D. 12.044×10^{23}

Ans  1. A
 2. B
 3. C
 4. D

Question ID : 5834932430

Q.27 Equation of a straight-line $y=mx$, which of the following statement is wrong

- A. It has the slope m
- B. Passes through origin
- C. The slope is x/y
- D. Its slope is y/x

Ans  1. A
 2. B
 3. C
 4. D

Question ID : 5834932391

Q.28 How many Electrons (E) , Protons (P) and Neutrons(N) are present in “X” if Atomic Number of “X” is 19 and its mass number is 39.

- A. E = 19; P= 19; N = 20
- B. E = 18; P= 19; N = 20
- C. E = 18; P= 19; N = 19
- D. E = 19; P= 20; N = 20

Ans  1. A
 2. B
 3. C
 4. D

Question ID : 5834932422

Q.29 Name the deepest ocean?

- A. Arctic
- B. Atlantic
- C. Pacific
- D. Indian

Ans  1. A
 2. B
 3. C
 4. D

Question ID : 5834932445

Q.30 Which one of the following materials can't be used to make a lens?

- A. Water
- B. Glass
- C. Plastic
- D. Clay

Ans  1. A
 2. B
 3. C
 4. D

Question ID : 5834932398

Q.31 Two cylinders of equal volume have their heights 2:1 ratio, the ratio of their radii is

- A. $1:\sqrt{2}$
- B. 2:1
- C. $\sqrt{2}:1$
- D. 1:2

Ans  1. A
 2. B
 3. C
 4. D

Question ID : 5834932390

Q.32 The bending of a light when it passed from one medium to another medium is known as

- A. Reflection
- B. Refraction
- C. Lateral inversion
- D. Multiple image

Ans  1. A
 2. B
 3. C
 4. D

Question ID : 5834932413

Q.33 Which of the following point is on the straight line $x - 2y = 4$

- A. (0,2)
- B. (2,0)
- C. (4,0)
- D. (1,1)

Ans  1. A
 2. B
 3. C
 4. D

Question ID : 5834932377

Q.34 Value of $(\sin 45^\circ + \cos 45^\circ)$ is

- A. $1/\sqrt{2}$
- B. $\sqrt{2}$
- C. $\sqrt{3}/2$
- D. 1

Ans  1. A
 2. B
 3. C
 4. D

Question ID : 5834932373

Q.35 A combination of cells in an electric circuit is called as

- A. Electric cell
- B. Battery
- C. Electronic Bulb
- D. Compass needle

Ans  1. A
 2. B
 3. C
 4. D

Question ID : 5834932414

Q.36 In a closed room during fire Suffocation is caused due to presence of

- A. Carbon dioxide
- B. Hydrogen
- C. Hydrogen Chloride
- D. Nitrogen

Ans  1. A
 2. B
 3. C
 4. D

Question ID : 5834932421

Q.37 Chemical formula of lime water is

- A. CaCO_3
- B. NaHCO_3
- C. Ca(OH)_2
- D. NaOH

Ans  1. A
 2. B
 3. C
 4. D

Question ID : 5834932429

Q.38 Which one of the following protects the electrical equipments from overcurrent?

- A. Fuse
- B. Switch
- C. Earthing
- D. Insulation

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834932401

Q.39 If length and breadth of a rectangle are 8 cm and 6 cm respectively, then it's diagonal is:

- A. 9 cm
- B. 14 cm
- C. 10 cm
- D. 12 cm

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834932375

Q.40 Which one the following is not an invisible fire?

- A. Ethanol fire
- B. Hydrogen fire
- C. Methanol fire
- D. Acetylene fire

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834932411

Q.41 Which of the following is used to extinguish the fire

- A. NH_3
- B. H_2
- C. CO_2
- D. Methane

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834932415

Q.42 The splitting of white light into different colours on passing through a prism is called as ____.

- A. Refraction
- B. Dispersion
- C. Diffraction
- D. Polarization

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834932410

Q.43 Iodine helps synthesizing of _____ hormone.

- A. Adrenaline
- B. Thyroxin
- C. Insulin
- D. Auxin

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834932434

Q.44 Number of moles in 52 g of Helium

- A. 13
- B. 26
- C. 52
- D. 104

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834932425

Q.45 $(102)^2 - (98)^2 =$

- A. 800
- B. 900
- C. 1000
- D. 1600

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834932388

Q.46 Which of the following is correct equation to represent “Force” according to Newtons laws of Motion ?

- A. Force = Mass / Acceleration
- B. Force = Mass x Acceleration
- C. Force = Mass + Acceleration
- D. Force = Mass – Acceleration

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834932406

Q.47 Which of the following is monovalent anion?

- A. Na^+
- B. Cl^-
- C. Ca^{2+}
- D. O^{2-}

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834932433

Q.48 Kinetic energy of molecules is directly proportional to

- A. Temperature
- B. Pressure
- C. Both (a) and (b)
- D. Atmosphere

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834932407

Q.49 A and B can together do a piece of work in 6 days, B alone can do it in 9 days.

In how many days A alone can complete the same work.

- A. 40 days
- B. 36 days
- C. 60 days
- D. 18 days

Ans  1. A
 2. B
 3. C
 4. D

Question ID : 5834932379

Q.50 Tadoba national park is situated in

- A. Meghalaya
- B. Mizoram
- C. Karnataka
- D. Maharashtra

Ans  1. A
 2. B
 3. C
 4. D

Question ID : 5834932449

Q.51 The value of $\cos 0^\circ \times \cos 1^\circ \times \cos 2^\circ \times \dots \times \cos 89^\circ \times \cos 90^\circ$ is

- A. 1
- B. -1
- C. 0
- D. $1/\sqrt{2}$

Ans  1. A
 2. B
 3. C
 4. D

Question ID : 5834932395

Q.52 The ratio of volumes of two spheres is 64:125. Find the ratio of their surface areas

- A. 8:25
- B. 16:25
- C. 4:5
- D. 16:5

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834932393

Q.53 $(a^m)^n =$

- A. a^{m+n}
- B. a^{m-n}
- C. a^{mn}
- D. $a^{m/n}$

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834932380

Q.54 In road traffic, Blue color signs indicates what?

- A. Mandatory signs
- B. Informatory signs
- C. Cautionary Signs
- D. Warning Signs

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834932443

Q.55 The polynomial of type ax^2+bx+c , where $a=0$ is of type

- A. Linear
- B. Quadratic
- C. Cubic
- D. Biquadratic

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834932387

Q.56 Find the least number which is exactly divisible by 8, 12 and 15?

- A. 210
- B. 120
- C. 480
- D. 840

Ans  1. A
 2. B
 3. C
 4. D

Question ID : 5834932386

Q.57 Expand PPE

- A. Public Provident Equity
- B. Personal Protective Equipment
- C. Personal Plant Ecosystem
- D. Public Protection Environment

Ans  1. A
 2. B
 3. C
 4. D

Question ID : 5834932448

Q.58 The value of $(a+b)(a-b) + (b+c)(b-c) + (c+a)(c-a)$ is equal to

- A. $a^3+b^3+c^3$
- B. $ab+bc+ca$
- C. $a+b+c$
- D. 0

Ans  1. A
 2. B
 3. C
 4. D

Question ID : 5834932389

Q.59 The value of $(a-b)^3 + (b-c)^3 + (c-a)^3 =$

- A. abc
- B. $3abc$
- C. $3(a-b)(b-c)(c-a)$
- D. $(a-b)(b-c)(c-a)$

Ans  1. A
 2. B
 3. C
 4. D

Question ID : 5834932392

Q.60 Chemical name of Table salt is :

- A. Sodium Chloride
- B. Sodium Bicarbonate
- C. Sodium carbonate
- D. Sodium Hypo Chloride

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834932417

Q.61 Palk strait is situated in _____

- A. between Pakistan and Iran
- B. between Pakistan and India
- C. between Kerala and Lakshadweep
- D. between India and Srilanka

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834932451

Q.62 Which of the following correctly represents 180 g of water?

- A. 2 moles of H_2O
- B. 20 moles of H_2O
- C. 1 mole of H_2O
- D. 10 moles of H_2O

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834932432

Q.63 Choose the correct unit for relative density among the following

- A. Kg/m
- B. Unitless
- C. Kg -m
- D. Kg/ m^3

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834932402

Q.64 The complimentary angle of 30° is

- A. 90°
- B. 60°
- C. 150°
- D. 120°

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834932374

Q.65 Name the technique to separate salt from sea water

- A. Centrifugation
- B. Sublimation
- C. Evaporation
- D. Distillation

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834932418

Q.66 Environment day is observed on _____.

- A. 05-July
- B. 05-June
- C. 25-July
- D. 25-June

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834932441

Q.67 What do we get by the product of mass and velocity?

- A. Force
- B. Inertia
- C. Momentum
- D. Energy

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834932405

Q.68 If $x+y=5$, $x^2+y^2=15$, then $xy =$

- A. 1
- B. 3
- C. 2
- D. 5

Ans  1. A
 2. B
 3. C
 4. D

Question ID : 5834932384

Q.69 Name natural source of light

- A. Bulb
- B. Tube Light
- C. Sun
- D. Torch Light

Ans  1. A
 2. B
 3. C
 4. D

Question ID : 5834932399

Q.70 If $(x+1/x) = 7$, find $x^2 + 1/x^2$

- A. 49
- B. 81
- C. 14
- D. 47

Ans  1. A
 2. B
 3. C
 4. D

Question ID : 5834932372

Q.71 If the area of the equilateral triangle is $64\sqrt{3} \text{ cm}^2$, then find the perimeter

- A. 12 cm
- B. 48 cm
- C. 24 cm
- D. 36 cm

Ans  1. A
 2. B
 3. C
 4. D

Question ID : 5834932382

Q.72 Who was the first woman president of India?

- A. Smt Pratibha devi singh patil
- B. Smt Nirmala Seetharaman
- C. Smt Tamil isai soundar rajan
- D. Smt Meera Kumari

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834932450

Q.73 One million rupees corresponds to how many rupees in Indian System

- A. 1 lakh
- B. 10 lakhs
- C. 100 lakhs
- D. 1000 lakhs

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834932378

Q.74 The unit of measuring the momentum of the moving body is

- A. m/s
- B. Kg.m/s
- C. Kg.m/s²
- D. Kg.m

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834932404

Q.75 The momentum of a bullet of mass 20 g fired from a gun is 10kg m/s. the kinetic energy of the bullet in KJ will be:

- A. 25
- B. 2.5
- C. 0.25
- D. 5

Ans  1. A

 2. B

 3. C

 4. D

Question ID : 5834932412

Q.76 The opening and closing of stomatal pore of plants depends on

- A. Oxygen content in the leaves
- B. Temperature of the roots
- C. Water in the guard cells
- D. Concentration of CO_2 in the stomata

Ans  1. A
 2. B
 3. C
 4. D

Question ID : 5834932436

Q.77 If we subtract $4a-7ab+3b+12$ from $12a-9ab+5b-3$, then the answer is

- A. $8a-2ab+2b-15$
- B. $8a+2ab+2b+15$
- C. $8a+2ab+2b-15$
- D. $8a-2ab-2b+15$

Ans  1. A
 2. B
 3. C
 4. D

Question ID : 5834932381

Q.78 The correct electronic configuration of Fluorine

- A. 2,8
- B. 2,8,1
- C. 2,7
- D. 2,8,7

Ans  1. A
 2. B
 3. C
 4. D

Question ID : 5834932428

Q.79 The ratio between circumference of two circles is 5:2, find the ratio between their areas

- A. 4:25
- B. 25:4
- C. 25:49
- D. 49:25

Ans  1. A
 2. B
 3. C
 4. D

Question ID : 5834932385

Q.80 The symbol "Mn" stands for which element?

- A. Molybdenum
- B. Manganese
- C. Magnesium
- D. Mendelevium

Ans  1. A

 2. B

 3. C

 4. D

Question ID : **5834932444**