

phy g1 dgk

1024 bytes = _____

- 1 mB (D) 1 GB (C) 1 MB (B) 1 KB (A)

Fax machine is also called _____

- فکس میکنی / میکن کرنے والا گز (D)

- Telephone ٹلفون (D) Telefacsimile machine ٹلی فیسی میکن (C) Computer کمپیوٹر (B) Radio ریڈیو (A)

Which type of image is formed by a convex lens on a screen?

- کوئی سیکھی پر کام کرنا چاہئے (D)

- Upright and real (A) اورڈنری اور واقعی (C) Inverted and virtual (B) Inverted and real (A)

- آپرڈنری اور واقعی (D)

Number of neutrons in tritium H_3^3 is

- لیٹھیم H₃³ میں کیلئے لذکری تعداد ہے (D)

- 4 (D) 3 (C) 2 (B) 1 (A)

AND gate can be formed by using two _____ gates

- کوئی سیکھی پر کام کرنا چاہئے (D)

- NAND gates (A) NOT gates (B) OR gates (C) NOR gates (D) اورڈنری اور واقعی (A)

- بجھ کے پڑتال کو ایک جگہ سے دیکھنے کے لیے بچھل دک کر رکھتا ہے۔ ان دونوں ہلاتھ کے درمیان یہ بچھل دلخیں ہے (D)

Five Joules of work is needed to shift 10 C of charge from one place to another. The potential difference between the places is

- 10 V (D) 5 V (C) 2 V (B) 0.5 V (A)

Electric potential and e.m.f.

- امپلیٹ پولیٹکل ایم ایف (D)

- Are the different terms E ایکٹ میڈیاری (B) Are the same terms ایکٹ میڈیاری (A)

- Both B and C (D) Both C and B (A) ان کے وہ خس لائک (C)

The step-up transformer

- شیپر پر ایکٹھا مر (D)

- Increases the input voltage ایکٹھا کیلئے ایکٹھا (B) Increases the input current ایکٹھا کیلئے ایکٹھا (A)

- کوئی افری کو اسی میں نہ رکھ کر کوئی (C)

- Has more turns in primary coil ایکٹھا کیلئے ایکٹھا (D) کی کمتری ایکٹھا میں کم کمی کی (D)

In computer terminology information means

- کام کیلئے ایکٹھا (D)

- Large data ایکٹھا (D) Processed data ایکٹھا (C) Raw data ایکٹھا (B) Any data ایکٹھا (A)

SI unit of $e.m.f.$ is

- ان پاٹھکے ایکٹھا (D)

- NC⁻¹ (D) NC (C) JC⁻¹ (B) JC (A)

Which form of energy is sound?

- اکٹھا کی کوئی جم ہے (D)

- Chemical ایکٹھا (D) Thermal ایکٹھا (C) Mechanical ایکٹھا (B) Electrical ایکٹھا (A)

The relation between V , f and λ of a wave is

- کام کیلئے ایکٹھا کوئی جم ہے (D)

- $V = \frac{\lambda}{f}$ (D) $V\lambda = f$ (C) $\lambda = V/f$ (B) $Vf = \lambda$ (A)

Q No 1. 49 = 22

48 = 1

Q No 2. Write short answers to any five of the following.

Open increasing the frequency of a wave, also increase its wavelength? If not, how are these quantities related?

Define spring constant and give its unit.

A wave moves on a string with frequency of 4 Hz and wavelength of 0.4 m. What is the speed of wave?

What is the refractive index of ice and water?

An object is placed 6 cm to front of a convex mirror that has focal length 10 cm. Determine the location of the image.

Draw a diagram for the virtual image formed in a plane mirror.

Define the electronics.

Explain deflection of electrons by magnetic field.

Q No 3. Write short answers to any five of the following.

Define Loudness of sound.

What is meant by audible frequency range?

Draw electric field lines for an isolated negative point charge.

Define capacitance of capacitor and write its SI unit.

A charged rod attracts pieces of paper. After a while these pieces fly away. Why?

What is difference between bit and byte?

What is meant by internet?

Calculate the frequency of a sound wave of speed 340 ms^{-1} and wavelength 0.5 m.

Q No 4. Write short answers to any five of the following.

State Faraday's Law of electromagnetic induction.

Define Electromagnet. How many poles it has?

Define Ohm. Write its symbol.

$$\text{Prove that } P = \frac{V^2}{R}$$

Write two properties of α -particle.

Find the number of protons and neutrons in the nucleus ^{13}X .

What is difference between a cell and a battery?

What is atom? Write its two parts.

(Part II) $10 \times 2 = 20$

NOTE: Attempt any two questions from this part.

4. How can you form images by convex lens with the help of ray diagram when an object is placed at $2f$, between f and $2f$.

5. A pendulum of length 0.99 m is taken to the moon by an astronaut. The period of the pendulum is 4.9 seconds. What is the value of "g" on the surface of moon?

6. What is ICT stand for and also write the risks of ICT to society and the environment.

7. The charge on two identically negatively charged particles would be equal to $100 \mu\text{C}$. Assume charge on one negative particle is $1.6 \times 10^{-19} \text{ C}$.

2+3
Write any two hazards of Nuclear radiation. Also write any two safety measures of Nuclear Radiation.

8. An incandescent bulb is marked with 230 V, 100 W. Find the resistance of the filament of the bulb. If the bulb is used 5 hours

due the energy in kilowatt hours consumed by the bulb in one month (30 days).