

Roll No.

امیدوار خود پر کرے

(For all sessions)

Group-II

فرزس (انٹائی)

Physics (Essay Type)

Marks: 48

وقت: 1:45 گھنٹے

Section-I

2-Write short answers of any five part from the following .

2x5=10

- If the length of a simple pendulum is doubled what will be the change in its time period?
- Define restoring force.
- What is the difference between musical sound and noise?
- What is meant by ultrasound?
- What is meant by reflection of sound?
- Define current and also write its unit.
- Prove that: $1\text{KWH} = 3.6\text{MJ}$
- State Joule's law.

3- Write short answers of any five part from the following .

2x5=10

- Differentiate between concave and convex mirror.
- What is mirror formula? Write its mathematical form:
- What is meant by resolving power?
- Define electrostatic induction.
- Define electric field intensity and write its formula.
- Define information technology and telecommunication.
- Write a short note on fax machine.
- What is difference between RAM and ROM memories?

4- Write short answers of any five part from the following .

2x5=10

- Define mutual induction.
- State right hand rule.
- Define thermionic emission.
- Define analogue and digital electronics.
- Write two uses of cathode ray oscilloscope.
- Define fission reaction.
- What is meant by background radiations?
- Write two properties of α -particle .

Section -II

Note: Answer any two questions from the following.

9x2=18

حصہ دوم

نوت: درج ذیل میں سے کوئی سے پانچ اجزاء کے مختصر جوابات لکھیے۔

5. (a) Prove that a motion of mass attached to a spring performing simple harmonic motion.

04 (الف)۔ ثابت کریں کہ پرنسپ کے ساتھ بندھے ہوئے ماس کی موتھن سپل ہار مونک موتھن ہے۔

(b) A convex lens of focal length 6cm is used to form a virtual image three times of size of object. Where must lens be placed?

05 (ب)۔ ایک کونیکس لینز جس کی فوکل لینگٹھ 6cm ہے۔ جسم کی جامات سے تین گنا جامات کی ورچوں ایج بناتا ہے۔ لینز کو کہاں پر رکھنا چاہیے؟

6. (a) Write down the characteristics of parallel combination of resistors.

04 (الف)۔ پیرال طریق سے جوڑے گئے ریٹریزکی اہم خصوصیات بیان کیجیے۔

(b) If 0.5C charge passes through a wire in 10s, then what will be the value of current flowing through the wire?

05 (ب)۔ اگر ایک تار میں 0.5C چارج (s) 10 سینٹر میں گز رتا ہے تو تار میں کتنا کرنٹ بہتا ہے؟

7. (a) What is meant by half life of radioactive element and how is it measured? Explain.

04 (الف)۔ ریڈیو ایٹیوٹس کی ہاف لائف سے کیا مراد ہے اور اس کی بیان کیسے کی جاتی ہے؟ وضاحت کریں۔

(b) Discuss the role of information technology in school education.

05 (ب)۔ سکول ایجوکیشن میں انفارمیشن جیکنالو جی کے کردار کی وضاحت کیجیے۔