

24-09-2022

Azad Jammu and Kashmir Public Service Commission

Examination for the P.O

Post: Project Manager PM + AD/PS (Eb)

Question Paper

Subject: General Knowledge Paper: Every Day Science

Time Allowed: 02 Hours Maximum Marks: 50

Note: Attempt any Five questions. All questions carry equal marks

Q. 1 ✓ What is Global Warming? State some of its merits and demerits. 5+3+2=10

Q. 2 ✓ Differentiate between any FIVE of the following. 02 × 5 = 10

- I. Longitudinal and transverse waves. ✓
- II. Electromagnetic waves and sound waves. ✓
- III. Climate and Environment. ✓
- IV. Distance and Displacement. ✓
- V. Weight and Mass. ✓
- VI. Turbulence and Tornado.
- VII. Absorption and Adsorption.

Q. 3 State role of following in human body.

- a. Vitamin D ✓
- b. Vitamin C ✓
- c. Insulin
- d. Oestrogen
- e. Cortisol

Q. 4 (a) ✓ Differentiate between conventional and non-conventional energy resources? Explain each with some examples. 02+02=4

✓ (b) Explain the Wind energy, its efficacy and point out the potential of Pakistan in Wind energy. $2+2+2 = 6$

Q. 5 ✓ Explain the following scientifically.

- I. ✓ Pollution causes acid rain.
- II. ✓ Color of the sky changes from blue to orange over a day.
- III. ✓ Shape of the earth is not completely spherical.
- IV. ✓ Water expands on freezing.
- V. ✓ Same charges do not repel each other inside nucleus.

✓ Q. 6 ✓ Write briefly about the following (not more than four sentences). $02 \times 05 = 10$

- a. ✓ Nano technology ✓
- b. ✓ Nuclear Magnetic Resonance (NMR)
- c. ✓ COVID-19 ✓
- d. ✓ RNA ✓
- e. ✓ Lunar eclipse ✓

✓ Q. 7 ✓ Name the following:

- I. ✓ Instrument used for measuring atmospheric pressure. ✓
- II. ✓ Machine that convert potential energy into mechanical energy. ✓
- III. ✓ Rays that kills Virus
- IV. ✓ Matter that inhale Matter
- V. ✓ Device that measure voltage, current, resistance, capacitance and inductance.
- VI. ✓ Pandemic break out recently. ✓
- VII. ✓ Device that convert solar energy into electrical energy.
- VIII. ✓ Scientist who first define atom ✓
- IX. ✓ Glass that splits sunlight into seven colors. ✓
- X. ✓ Phenomenon that produce food for plants during sunlight. ✓