

10th General Science Guess Paper 2025

These guess papers are prepared according to the new paper pattern 2025 issued by the board and based on SLOs.

Your exam paper will be divided as follows:

- 25% Conceptual
- 75% Knowledge-Based
- 25% Analytical + Application-Based

Most Important Short Questions

Question # 2

#	Question
1	What is meant by "Nuclear Fission"?
2	Define kinetic energy.
3	What do you mean by potential difference?
4	What is meant by Fossil Fuels and Solid Waste?
5	Define information technology.
6	Write down any two disadvantages of nuclear radiations.
7	How would you define Geo-Thermal Power?
8	Write the equation to determine work.
9	Which force causes to stop the ball?
10	Define atmosphere.
11	What is the function of switches?
12	What are solar panels and which purpose are these used?
13	Write two methods of disposal of nuclear waste.
14	Define power. What is the unit of power?
15	Write names of any two electric devices used for cooling purposes.
16	Differentiate between nuclear energy and tidal energy.
17	Write the principle of a galvanometer.
18	Which element is used as nuclear fuel?
19	What is meant by explosion?
20	Define the unit of work.
21	What is the Law of Conservation of Energy?
22	What is BTU? Where is it used?
23	How do we get energy from the Sun?
24	Differentiate between wind power and tidal power.

25	Define elastic potential energy.
26	How would you obtain electricity from solid waste?
27	Define electric current and write its formula.
28	Write any two causes of a short circuit that may ignite a fire.
29	What are the factors on which kinetic energy depends?
30	What is a windmill?
31	Write two suggestions for the safe disposal of nuclear waste.
32	How is biogas obtained from biomass?
33	Write two uses of switch.
34	What is meant by wind power?
35	Write down two causes of thermal pollution.
36	How can potential difference be measured in a circuit?
37	Define power and also write its formula.
38	How would you describe an electric shock?
39	Write down the names of two dangers of electricity.
40	Which elements are called radioactive elements?
41	What are solar panels?
42	What is the method to produce biogas from biomass?
43	Write two uses of the absorbed heat of solar panels.
44	What is meant by degradation of the environment?
45	How would you define direct and alternating current?
46	Differentiate between conductors and insulators.
47	Write names of two gases produced by the burning of fossil fuels.
48	What is meant by charging of a capacitor?
49	What do you understand by electrical energy? Write its unit.
50	Define the unit of electrical energy.
51	What is meant by a transformer?
52	Differentiate between a step-up and step-down transformer.
53	What is meant by potential difference and also write its unit?
54	Write two suggestions to save energy.
55	What do you know about a multimeter?
56	Define geothermal power.
57	What is meant by solar power?
58	What is sewage?
59	Write down the names of two components of a circuit.
60	Define electric current.
61	What is the relation between the movement of molecules and heat energy?
62	Define the Greenhouse Effect.
63	What is the difference between neutral wire and live wire?
64	Describe the difference between nuclear fission and nuclear fusion.
65	What is meant by a dielectric?
66	Define environment and atmosphere.
67	Differentiate between traditional windmills and modern windmills.
68	What is the difference between direct current and alternating current?
69	What is the effect of thermal pollution on our environment?

70	What is the source of nuclear energy?
71	What is meant by biomass?
72	Write down the equation to determine work.
73	Define Ohm's law.
74	How would you recognize a radioactive element?
75	How would you define work and energy?
76	Write the names of two traditional methods to produce electricity.
77	Write names of two Pakistan Nuclear Power Stations.
78	Write the structure of a windmill.
79	What are the dangers of electricity?
80	How do you clarify the word overloading in the hazards of electricity?
81	Define thermal pollution.
82	Justify which one has a greater value of potential energy (P.E): a brick lying on the ground or on a high wall?
83	What is meant by a shunt?
84	Write names of two pollutants responsible for thermal pollution.
85	How can we produce biogas?
86	Define energy and also write its unit.
87	What is tidal power?
88	How is chemical energy produced?
89	What is meant by microfarad?
90	Write any two causes of short circuiting.
91	How would you describe the charging of a capacitor?
92	What is the function of a capacitor?
93	What is meant by nuclear fission?
94	What would happen if we use a step-up transformer?
95	What is the law of conservation of energy?
96	Write any two uses of fixed capacitors.
97	What is the difference between analog and digital meters?
98	How do you discharge a capacitor?
99	What is the difference between elastic potential energy and electrical energy?
100	What is meant by thermal pollution?
101	What is meant by nuclear energy? How is it produced?
102	What is the principle of a galvanometer?
103	When is light energy produced?
104	What are the gang capacitors used for?
105	Define kilowatt-hour.
106	Define work and write its formula.
107	Write down a mathematical equation to determine current.
108	What is the difference between direct and alternating current?
109	Give any three suggestions for the conservation of energy.
110	Define chemical energy.
111	What are the two uses of fixed capacitors?
112	What can you say about resistance?
113	What are the names of two elements used as fuel for nuclear fission?

114	What is the difference between wind power and tidal power?
115	Give any two examples of resistors.
116	How do you state "Electric Shock"?
117	Write two steps for the conservation of energy.
118	Write two uses of absorbed heat from solar panels.
119	What is meant by the charging of a capacitor?
120	What is meant by a step-up transformer?
121	Define potential energy.
122	What is the relation between movement and heat energy?
123	What is meant by chemical energy?

Question # 3

#	Question
1	What is fuse? How does it blow?
2	Write any four names of information storage devices.
3	What is floppy disc?
4	What are resistors? Give example.
5	Write function of transformer.
6	What is meant by telecommunication?
7	What is the Word processing?
8	What do you remember about communication system?
9	What is Explosion?
10	What do you know about ROM and RAM?
11	What is Resistance? Write down its equation.
12	How would you construct a simple capacitor?
13	Where are gang capacitors used?
14	Define Radio waves.
15	Define induction.
16	Write names of two types of printer.
17	Write any two uses of photodiode.
18	How would you present the two Uses of Fixed Capacitor?
19	Why hard disk is called a storage disk?
20	What is the function of transformer?
21	Define alternating current.
22	What is the function of multimeter?
23	What is meant by dopping?
24	Write the names of two important parts of hardware of computer.
25	What is meant by Circuit Wiring?
26	Explain the 'electric shock' in short.
27	Describe the difference between Step Up and Step Down transformers.
28	Write any two uses of A.C.
29	Write principle of Galvanometer.
30	Write two uses of Ammeter.

31	State Ohm's law and write its equation.
32	Define kilowatt hour.
33	Write any two advantages of alternating current.
34	What is Cell? Why mobile phone is called Cellular Telephone?
35	How would you define internet?
36	For what purpose are the Radio Stations established?
37	How would you define Rectification?
38	How will you make a fixed capacitor?
39	What are electromagnetic waves? Give one example.
40	How a fix Machine works?
41	How would you differentiate between fixed capacitor and variable capacitor?
42	Write names of any two input devices of a computer.
43	Write are the Gang capacitors used?
44	What actions would you take in emergency for administration of 'First Aid'?
45	Write down any two uses of Fax Machine.
46	Define rectifier.
47	How would you define computer?
48	What are Semi Conductors? Give two examples.
49	Define Electric current and write its Equation?
50	How would you differentiate live wire and neutral wire?
51	Describe about hardware and software.
52	How does electric shock take place?
53	What is Forward biased diode?
54	Write names of two types of printer.
55	What is meant by data management?
56	What are softwares?
57	Write the function of rectifier.
58	Define Semiconductor diode.
59	Write Name of input devices?
60	What is Communication system?
61	Define Global Village with respect to Computer.
62	Describe two uses of D.C. current.
63	What is rectification?
64	Differentiate between forward biased diode and reverse biased diode.
65	How would you present E-Mail and Voice-Mail?
66	How would you define electronics?
67	What is the difference between ammeter and volt meter?
68	Do you know about rectification?
69	How would you define the conventional current?
70	Write two examples of resistors.
71	Write two precautionary measures of electric shock.
72	Write down two uses of Capacitor.
73	How would you differentiate between Direct Current (DC) and Alternating Current (AC)?
74	Write two uses of light emitting diode.

75	What do you know about Radio-Waves?
76	How would you express the method of measuring potential difference between two points?
77	Write principle of galvanometer.
78	What is difference between Audio and Video Cassettes?
79	Describe the function of Electron Guns in Colour T.V.
80	What is difference in RAM and ROM?
81	What do you think about photodiode?
82	Write the function of telegraphy.
83	Write the functions of Scanner.
84	What are semiconductors?
85	Differentiate between audio and video cassettes.
86	What is the function of Compact disk?
87	Convert 361 into Binary System.
88	How can you describe 'avometer'?
89	Write the names of two Sources of Direct Current.
90	What is your point of view about Avometer?
91	Narrate the difference between live wire and neutral wire.
92	Where is a shunt resistance connected to convert a Galvanometer into Ammeter?
93	Define Software.
94	How many guns are in colour T.V and which colours are present in them?
95	What is Floppy disk?
96	How would you define protocol?
97	Define Information Technology.
98	Write two sources of Telecommunication.
99	What are carrier waves?
100	Write names of any two output devices of a computer.
101	What is the use of Rectifier?
102	Why radio waves are called carrier waves?
103	What is Protocol? Write the name of Protocol which is used in Pakistan.
104	Draw the diagram to represent Reverse Biased Diode.
105	Write the name of two appliances which need D.C voltage to run.
106	How would you express any two benefits of computer?
107	How Microprocessor helps computer in solving problems?
108	What are Hovering satellites?
109	Differentiate between hardware and software?
110	What is microchip?
111	Define Monitor.
112	Which objects are used for Laser?
113	How radar works?
114	Write two properties of Gamma Radiations.
115	Write down any two properties of Alpha Radiations.
116	Write down names of two objects which are used to produce laser.
117	How can you describe radioactivity?
118	Write names of any two steps in Garment manufacturing unit.

119	What is the principle of optical fibres?
120	What is "Holography"?
121	Write two advantages of ultrasound.
122	Give the two advantages of RADAR.
123	What do you know about Laser?
124	Why laser is called light knife?
125	Write difference between E.E.G and E.C.G.
126	How Henry Becquerel discovered the process of Radioactivity?
127	Write down two benefits of science and technology in the field of agriculture.
128	How the laser is used in surgery?
129	Define LASER. Write the name of the first laser ever used.
130	Write two characteristics of X-Rays.
131	How would you present E.E.G and E.C.G.?
132	Define Dermatology.
133	Write two properties of beta radiations.
134	What do you know about alpha radiations?
135	How does a Radar Control the Air Traffic?
136	Write any two Characteristics of Beta Radiations.
137	Write two Uses of Fibre Optics.
138	What do you mean by total internal reflection?
139	Write down any two advantages of X-rays.
140	From where do the Satellites get electrical power?
141	Write two sources of sugar.
142	What can you write about C.T scan?
143	What do you remember about radioactivity?
144	What is meant by Isotopes?
145	Describe importance of Gamma rays in preservation of food?
146	Write two advantages of X-Rays.
147	Why X-rays do not pass through the bones?
148	How would you identify optical fiber?
149	Write any two properties of beta radiations.
150	What is meant by monochromatic beam of light?
151	What do you know about spinning in textile industry?
152	What are Radio isotopes?
153	Define Total Internal Reflection.
154	How would you describe Geo-Stationary Orbit?
155	Write two sources to get sugar.
156	What do you mean by geostationary orbit?
157	What can you say about radioactivity?
158	Point out any two uses of ultrasound.
159	What is Lithotripsy?
160	What is steel?
161	Explain centrifugation process in sugar industry.
162	Write the names of main industries of Pakistan.
163	Write down two types of fibers.

164	What are the uses of Satellite?
165	Write name of two Isotopes of chlorine.
166	Write two properties of Beta rays.
167	What are said to be radio active elements?
168	Which are called radioactive elements?
169	In which type of Surgery Argon Lasers are used?
170	Define pharmaceutical industry.
171	Write names of two material found in sugarcane.
172	How Pakistan Atomic Energy Commission (PAEC) is playing a vital role for strengthening the defense of country?
173	Write down names of any two Biproducts of sugar industry.
174	How does a Radar Control the Air Traffic?
175	What do you mean by "Geo Stationary Orbit"?
176	Differentiate between E.C.G and E.E.G.
177	How will you do C.T Scan process?
178	How the pig iron is produced from Ore?
179	Write two services of NIFA.
180	Write any two advantages of x-rays.
181	Write two Uses of Radioisotopes.
182	Which Laser was use for the first time?
183	Write the names of two radio isotopes.
184	What are the two uses of MRI?
185	What are cosmic rays?
186	When and where did Pakistan make atomic explosion.
187	Write down any two properties of X-rays.
188	When the E.C.G test may be discontinued?
189	Write any two advantages of ultrasound.
190	Describe any two properties of alpha radiations.
191	What is meant by radioactivity?
192	Write two Characteristics of Alpha Radiations.
193	What is called Tannery?
194	Write any two methods for the protection of radiations.
195	How x-rays are emitted?
196	When did Pakistan join the countries of the world bearing nuclear capability?
197	How would you describe the importance of space suit?
198	PINSTECH is abbreviation of what?
199	Write two basic objectives of SUPARCO.
200	How can you define optical fibres?
201	What kind of information are obtained from space probes?
202	When and by which name Pakistan launched its artificial satellite in space?
203	What is the name of first artificial satellite of Pakistan?
204	How would you describe any two functions of artificial satellite metostat?
205	What you meant by PWI?
206	What is meant by Hubble telescope?
207	Write down two advantages of artificial satellites.

208	Where are the nuclear power plants of Pakistan located?
209	Write the names of those astronauts who first time stepped on moon.
210	Which type of laser used in Ophthalmology?
211	Where are the two Nuclear Power Plants of Pakistan and what is their total Production Capacity?
212	Describe the importance of space suit.
213	When SUPARCO was established and where is its headquarter situated?
214	Write any two uses of nuclear technology in the development of agriculture.
215	What is the function of NIFA?
216	Differentiate between meteorology and climatology.
217	What do you know about Russian Space Station MIR?
218	Where are the nuclear power plants of Pakistan located? What is their total production capacity?
219	Write two objectives of SUPARCO.
220	Why was Pakistan Welding Institute established?
221	Write two uses of nuclear technology in progress of agriculture.
222	How much production power of PARR-I and PARR-2 research reactors is?
223	What are the basic Objectives of SUPARCO?
224	Why x-rays cannot pass through the bones?
225	What is meant by Geo-Stationary Orbit?
226	What Services are provided by Pakistan Atomic Energy Commission in field of Medicine?
227	When did Pakistan become Nuclear Power?
228	Write down two main advantages of Artificial Satellites.
229	When Pakistan became the Atomic Power?
230	Write about Hubble telescope.
231	Write about Space Suit.
232	Where are the nuclear power plants of Pakistan located? What is their total production capacity?
233	Write two uses of laser in surgery.
234	Write two uses of fiber optics.
235	Write down two Uses of Isotopes in Industries.
236	Define climatology and meteorology.
237	When and where was KANUPP established?
238	Differentiate Meteorology and climatology.
239	What do you know about space probes?

Most Important Long Questions

Question # 5

#	Question
1	Write a note on Hydro-Electric Power.
2	What would you make steps for the conservation of environment?

3	Describe the hazards of Nuclear Fuel.
4	Describe kinetic energy and potential energy.
5	How would you give Suggestions for Conservation of Energy?
6	What is meant by thermal pollution? Write its three causes
7	How would you explain the process by which electricity is generated in nuclear power plant?
8	Write down four suggestions for the conservation of energy.
9	How would you define kinetic energy? Describe it with an example.
10	Describe the method to measure natural gas in detail and mention a relation between BTU and Joule.
11	Write down a note on Tidal Power and Geothermal Power.
12	How would you explain the solar power?
13	What is meant by interconversion of energy? State law of conservation of energy.
14	What do you know about nuclear power and thermal power.
15	Describe any two non-traditional methods of producing electricity.
16	Write a note on interconversion of energy.
17	How many methods are there to produce electricity traditionally? Explain.
18	Define energy and write a note on demand of energy.
19	What is thermal pollution and how does it produce?
20	Describe the method to obtain electricity from biomass and solid waste.
21	Describe the method to obtain electricity from biomass and solid waste.
22	How would you define kinetic energy? Describe it with an example.
23	Write down a note on production of electricity from biomass and solid waste.

Question # 6

#	Question
1	What is transformer? Write a note on its two types.
2	What is Circuit? Describe its two Components in detail.
3	Write a note on Transformer.
4	What do you know about Ammeter and Voltmeter?
5	What is electric shock? How its first aid should be managed?
6	Describe conventional current in detail?
7	Write four steps to minimize the environmental degradation.
8	What is voltmeter? Explain with diagram.
9	What is difference between Analogue and Digital Meters? Explain.
10	Write down a note on (i) Multimeter (ii) Voltmeter.
11	Explain potential difference with an example. Define its unit.
12	What is multi-meter? What is it used for? Describe the difference between an analogue and a digital meter.
13	What is transformer? Write a note on its two types.
14	Describe Precautionary Measures to use Electricity?

15	What is Circuit? Describe its two Components in detail.
16	Write a note on the usage of fuse and switch.
17	What do you know about Ammeter and Voltmeter?
18	How does the fire start during electric supply? Write its precautionary measures.
19	Write a note on the structure of Transformer.
20	What is voltmeter? Explain with diagram.
21	Write the uses of A.C and D.C.
22	State Ohm's law and also write its mathematical form.
23	Write a note on dangers of electricity and also write its any four precautionary measures.
24	Differentiate between direct and alternating current. Write their uses.
25	Write a note on the types and uses of capacitors.

Question # 7

#	Question
1	What is radio? How does the radio system work? Explain.
2	What is communication system? Write its components in detail.
3	Write a note on Satellite T.V.
4	What are radiowaves? How radio transmissions reach us?
5	What is CPU? Write down its function in detail.
6	How would you differentiate between light emitting diode and photo diode?
7	Write a note on Photo diode and light emitting diode.
8	Explain the Radio system.
9	Write down four points about CPU of Computer?
10	Write a comprehensive note on C.P.U.
11	What is communication system? Write the three basic components of communication.
12	Define Input Devices. Discuss any two of them.
13	Write a note on N-type and P-type Semi-conductor.
14	Describe about Telex Machine and Fax Machine.
15	What is semiconductor diode? Describe its two types.
16	Write a note on Television?
17	Explain E-mail.
18	Write a note on Internet.
19	What are you know about radio system?
20	What is CPU? Write down its function in detail.
21	Write a note on Satellite T.V.
22	Write a note on Television.
23	Explain the input devices.
24	Write a note on Photo diode and light emitting diode.
25	Differentiate between N-type and P-type semi conductors.

Question # 8

#	Question
1	What do you know about C.T Scan?
2	What is the role of science and technology in our daily life?
3	Write down principle of Fibre optics with two uses.
4	What is LASER? Describe its two uses.
5	What are radio isotopes? Write their some advantages.
6	What is meant by "RADAR"? How does it help us in daily life? Write any three points.
7	What is meant by C.T Scan? Explain it.
8	What is E.E.G? Write its three uses.
9	How would you describe about important Sections of Cotton Textile Industry?
10	Describe four properties of X-rays.
11	Write any four advantages of Optical Fibre.
12	Write a comprehensive note on E.C.G.
13	What do you know about RADAR system? On which principle it works?
14	Explain the role of Science and Technology.
15	Write any four advantages of ultra sound.
16	What do you know about Pharmaceutical Industry? Also define Angiography.
17	What are synthetic fibres? Explain in detail.
18	Write down a note on MRI (Magnetic Resonance Imaging).
19	Describe in detail the different steps in sugar processing.
20	Write two properties and two advantages of X-rays.
21	What is the difference between X-rays and C.T scan?
22	What do you know about Pharmaceutical Industry? And also define Angiography.
23	Highlight the importance and uses of steel mill.
24	Write down any four uses of laser.
25	Describe four properties of X-rays.
26	What is the difference between X-rays and C.T scan?

Question # 9

#	Question
1	What are the services of Pakistan Atomic Energy Commission (PAEC) for the achievement of nuclear energy for peaceful purposes?
2	Where are the nuclear power plants of Pakistan located?
3	How would you like to present KANUPP and CHASNUPP?
4	Identify the services of Pakistan Atomic Energy Commission in the fields of medicine and industry.
5	What are artificial satellites? Write down their any two advantages.
6	Describe the basic objectives of Space Programme of Pakistan.
7	Write a note on services of Pakistan Atomic Energy Commission.

8	Where are the Nuclear Power Plants of Pakistan located and what is their total production capacity?
9	Write a note on space research in Pakistan.
10	What are the services of Pakistan Atomic Energy Commission for the achievement of nuclear energy for peaceful purposes?
11	Identify the services of Pakistan Atomic Energy Commission in the fields of medicine and agriculture.
12	What are the services of Pakistan Atomic Energy Commission for the achievement of nuclear energy for peaceful purposes?
13	Describe the services of Pakistan Atomic Energy Commission in detail.
14	Explain with detail the importance of space programme.
15	Write the importance of artificial satellites.
16	Describe the services of PINSTECH.
17	Write a detailed note on Nuclear Power Plants of Pakistan.
18	What do you know about Space Probes and Space Shuttle? Explain.
19	Highlight the importance of space programme.
20	Write the full name of SUPARCO. What are the basic objectives of SUPARCO?