

MODEL PAPER “GENERAL SCIENCE”
Secondary School Annual Examination 2008 And onward

Roll No. _____
In Figures _____
In Words _____

OBJECTIVE

Time: 20 Minutes

Marks:20

Note: Write your Roll No. in space provided. Over-writing, Cutting, Using lead pencil will result in loss of marks.

Q.No.1. Select the correct answer.

- (i) The invention of Science, which rules the world to day is:
(a) Television (b) Space shuttle
(c) Computer (d) Artificial satellites.
- (ii) In all the living organisms, energy is released during the catabolic process of:
(a) Digestion (b) Respiration (c) Nutrition (d) Photosynthesis
- (iii) Example of anabolic processes is:
(a) Photosynthesis (b) Combustion (c) Digestion (d) Respiration.
- (iv) Genitic information is transferred by :
(a) Genes (b) Nucleus (c) Gametes (d) Chromosomes.
- (v) The enzyme, which is used to tenderize meat is called:
(a) papain (b) propase (c) papaya (d) papase
- (vi) Blood minus blood cells and fibrinogen is called:
(a) plasma (b) lymph (c) serum (d) none of the above
- (vii) Required energy if a child of 7-9 years old is:
(a) 1200 kilo calories (b) 1600 kilo calories
(c) 2000 kilo calories (d) 2500 kilo calories
- (viii) The glands, which also control the activities of other glands and called the “:Master gland” is:
(a) Adrenal gland (b) Thyroid gland (c) Pancreas (d) Pituitary gland
- (ix) A sceres lumbricoides is the scientific name if::
(a) type worms (b) thread worms
(c) round worms (d) earth worms
- (x) Vaccination for the prevention of diphtheria is:
(a) HIV (b) ODP (c) DPT (d) BCG.
- (xi) Kinds of birds in Pakistan are:
(a) 150 species (b) 600 species (c) 700 species (d) 200 species
- (xii) Which is the following is not an endangered species?:
(a) crocodile (b) sea turtle
(c) gizzale (d) cheetah
- (xiii) Energy resources consumed by industries is approximately:
(a) 10% (b) 80% (c) 20% (d) 60%
- (xiv) The S.I unit of resistance is:
(a) charge (b) resistance (c) current (d) potential difference
- (xv) Most of the current through N-type semi-conductors is due to:
(a) free electrons (b) free neutrons
(c) free atoms (d) free protons
- (xvi) Diodes are used to:
(a) store charge (b) change voltage
(c) convert A.C into D.c (d) convert D.C into A.c.
- (xvii) Frequency of Ultrasound is?
(a) 20 KHZ (b) 20 HZ (c) less then 10 HZ (d) more then 40 KHZ

- (xviii) Mass of Helium is 4 and charge is:
(a) +3 (b)+7 (c) -7 (d) +2
- (xix) The total production capacity of Pakistan's first nuclear power plant is:
(a) 147 mega watt (b) 137 mega watt
(c) 174 meaga watt (d) 173 mega watt
- (xx) ANUPP was established with the collaboration of
(a) France (b) Russia (c) America (d) Canada

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SUBJECTIVE

Time:

Marks: 80

Q.No.2. Write short answers of any twenty-five of the following. (2X25)=50

- (i) What is the relationship of mathematics with physics and chemistry?
- (ii) Why does the science cannot help us with ever growing population?
- (iii) How much air we breathe in our body each day?
- (iv) What is the role of iodine on plant's life?
- (v) Why does certain medicines are faster acting on girls than on boys?
- (vi) What is meant by assimilation of food?
- (vii) What is an antibiotic?
- (viii) Define anabolism and catabolism.
- (ix) Differentiate between plasma and serum.
- (x) Name of factors on which the energy need of human being is depended.
- (xi) How does aging effects the bone of a human body
- (xii) What could be the first aid for a patient of burn?
- (xiii) Name some viral diseases of human being.
- (xiv) Describe the symptoms of cholera.
- (xv) What are the major contents of smoke of industries and factories?
- (xvi) Define wildlife.
- (xvii) What is smog and how does it effect?
- (xviii) What are the effects of global warming on the earth?
- (xix) What is thermal pollution?
- (xx) What are fossil fuels?
- (xxi) What is the difference between nuclear fission and nuclear fusion?
- (xxii) State Ohm's law.
- (xxiii) What is the main difference between the analogue and digital meters?
- (xxiv) What do you mean by potential difference?
- (xxv) What are radio waves?
- (xxvi) Name some uses of semi-conductor diode.
- (xxvii) What do you meant by P-N junction diode.
- (xxviii) What do you mean by radar system?
- (xxix) What is radio activity?
- (xxx) What is angiography?
- (xxxi) Which objects are used as laser?
- (xxxii) PINSTECH stands for what?
- (xxxiii) What is space suit? Why it is necessary for astronauts?
- (xxxiv) Where are the nuclear power plant of Pakistan locate? What is there total production capacity?
- (xxxv) How does coal formed?
- (xxxvi) What do you mean by environmental pollution?
- (xxxvii) What is transgenic organism?

Note. Write answers of any three questions.

(10x3)=30

Q.No.2.

- (a) The importance of science and knowledge have been discussed in the holy Quran
- (b) Why does the water expands on freezing?

Q.No.3.

- (a) What are components of the blood? Also write its functions.
- (b) Given names and importance of some mineral salts. 4

Q.No.4.

- (a) How does the AIDS spread? Write its preventive measures. 4
- (b) Write a not on depletion of ozone lyre.

Q.No.5.What is a transformer? Describe its structure, working and uses in detail.

Q.No.6.

- (a) What are N- type and P- type semi- conductors? What are they used for?
- (b) Define optical fiber. Describe its construction, principle and working. 4