**Balochistan Board of Intermediate and Secondary Education, Quetta**

Model Paper for SSC Examination 2017 and Onwards

Subject: General Science Total Marks = 75 Class 10th

**PART – I**

Q no. 1: Each question is followed by four options, select the correct one. (5)

1. In Pakistan the number of agriculture universities are
   1. 4 b. 5 c. 6 d. 7
2. Number of neutrons in tritium which is an isotope of hydrogen
   1. 1 b.2 c. 3 d. 4
3. Which type of energy is present in water falls
   1. Potential Energy b. Kinetic Energy

c. nuclear energy d. Heat Energy

1. Plaster of Paris is obtained by heating
   1. Aluminium b. Gypsum c. Mica d. Coal
2. The number of minerals discovered so far
   1. About three hundred b. about one thousand

c. about three thousand d. about ten thousand

**(b)** Complete the following statements (5)

1. The nucleus of an atom bears \_\_\_\_\_\_\_\_\_\_\_\_\_ charge.
2. Radio waves possess greatest \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. The uranium is found at \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in Pakistan.
4. In \_\_\_\_\_\_\_\_\_\_\_\_\_\_ with contribution of the Canadian Government a atomic electricity state has established in Karachi.
5. I calorie is equal to \_\_\_\_\_\_\_\_\_\_\_\_\_ joule.

**(c)** Match the terms of Column ‘A’ with relevant statement of Column ‘B’ (5)

|  |  |  |
| --- | --- | --- |
|  | **Column A** | **Column B** |
|  | Dr. Abdus Salam | (a) Naphtalene |
|  | Coal | (b) Geo- Stationary orbit |
|  | Hovering satellites | (c) Nobel prize in 1979 |
|  | Nuclear reactor | (d) Potential Energy |
|  | Sea minerals | (e) Uranium |
|  |  | (f) Titanium |

**PART – II**

Q 2: Write short answers of following (any ten) (20)

1. What is the difference between stable and an unstable atom?
2. Name three laboratory made elements.
3. What is meant by heat engine?
4. Define law of conservation of energy.
5. What is petroleum?
6. What is calcination?
7. Describe the importance of Bio-gas
8. Define minerals.
9. What are the renewable sources?
10. Discuss about water logging and salinity.
11. What do you know about petro chemical industry?
12. Write briefly the important problem that has been created from the development of science.

**PART – III**

**Attempt any four questions.**

Q no. 3: How many types of radiations are emitted by radioactive nuclei? (10)

Q no. 4: Describe each one of them briefly, and write down some benefits of artificial satellites. (10)

Q no. 5: Describe the construction and working of a four stroke internal combustion engine. (10)

Q no. 6: Define energy, list different form of energy, and explain how energy is measured? (10)

Q no. 7: What is meant by minerals? Name important minerals of Pakistan together with the places from where these are obtained. (10)

Q no. 8: What is the state of science and technology in Pakistan, and how government of Pakistan will take benefit from it in future? (10)