

AGA KHAN UNIVERSITY EXAMINATION BOARD

SECONDARY SCHOOL CERTIFICATE

CLASS X EXAMINATION

APRIL/ MAY 2017

General Science Paper II

Time: 2 hours 20 minutes Marks: 45

INSTRUCTIONS

Please read the following instructions carefully.

1. Check your name and school information. Sign if it is accurate.

**I agree that this is my name and school.
Candidate's signature**

2. RUBRIC. There are THIRTEEN questions. Answer ALL questions. Questions 11, 12 & 13 each offers TWO choices. Attempt any ONE choice from each.
3. When answering the questions:

Read each question carefully.
Use a black pointer to write your answers. DO NOT write your answers in pencil.
Use a black pencil for diagrams. DO NOT use colour pencils.
DO NOT use staples, paper clips, glue, correcting fluid or ink erasers.
Complete your answer in the allocated space only. DO NOT write outside the answer box.
4. The marks for the questions are shown in brackets ().

Q.1. (Total 3 Marks)

Describe any THREE functions of proteins.

Q.2. (Total 4 Marks)

Describe the function of pancreas as

i. an endocrine gland. (2 Marks)

ii. an exocrine gland. (2 Marks)

Q.3.

(Total 3 Marks)

How do vaccines create immunity in human beings?

Q.4.

(Total 2 Marks)

State any ONE negative effect of each of the following human activities on the environment.

i. Deforestation

ii. Industrialisation

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Q.5. (Total 3 Marks)

Ibex has been declared as an endangered species in Pakistan by WWF.

Describe any THREE ways to conserve this species.

Q.6. (Total 2 Marks)

Define information technology and give any ONE example of it.

Q.7. (Total 3 Marks)

Internet is a tool for exchanging information globally.

List THREE uses of internet.

Q.8. (Total 3 Marks)

a. Define radioactivity. (1 Mark)

b. State any ONE use of radioisotopes in industry and ONE in health. (2 Marks)

Q.9. (Total 3 Marks)

Mention any ONE use of LASER in each of the following:

i. Medical field

ii. Industry

iii. Military

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Q.10.

(Total 4 Marks)

Describe the salient features of Pakistan's space programme.

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Q.12.

(Total 5 Marks)

EITHER

a.

- i. Describe greenhouse effect using an example of a greenhouse gas. (3 Marks)
- ii. State any TWO harmful effects of ozone layer depletion on living organisms. (2 Marks)

OR

b. Describe

- i. any THREE harmful effects of pollution on human beings. (3 Marks)
- ii. any TWO negative impacts of pollution on the environment. (2 Marks)

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