

**BOARD OF INTERMEDIATE EDUCATION, KARACHI**  
**INTERMEDIATE EXAMINATION 2016 (ANNUAL)**

Date: 11.05.2016

9:30 a.m. to 9:45 a.m.

**BIOLOGY PAPER – II**  
**BOTANY (THEORY)**  
(Science Pre-Medical Group)

Max. Marks: 08

Time: 15 minutes

The correct answers are highlighted in red colour.

**SECTION ‘A’**  
**(MULTIPLE CHOICE QUESTIONS) – (M.C.Qs.)**

*Code No: BT-01*

Write this Code No. in the Answerscript.

**NOTE:**

- i) This section consists of 16 part questions and all are to be answered. Each question carries  $\frac{1}{2}$  mark.
- ii) Do not copy the part questions in your answerbook. Write only the answer in full against the proper number of the question and its part.
- iii) The code of your question paper is to be written in bold letters in the beginning of the answerscript.

1. Choose the correct answer for each from the given options:

- i) Sex determination in *Drosophila* was initially observed by:  
\* **T.H. Morgan** \* Mendel \* Watson \* Darwin
- ii) Protein synthesis starts with this codon:  
\* UAG \* UAA \* UGA \* **AUG**
- iii) The tendency of genes in a chromosome to remain together is called:  
\* Epistasis \* **Linkage** \* Pleiotropy \* Synapsis
- iv) Chromosomal theory of heredity was proposed by:  
\* Watson \* Griffith \* **Walter Sutton** \* Chase
- v) It is a defect in humans in which blood fails to clot after an external or internal injury:  
\* Sick cell anaemia \* Phenylketonuria \* **Haemophilia** \* Colour blindness
- vi) The cotyledon in monocot seed is called:  
\* **Scutellum** \* Integument \* Coleorhiza \* Coleoptile
- vii) In plants, the process of mitosis is:  
\* Amphi-astral \* **An-astral** \* Multi-astral \* Di-astral
- viii) In Turner's syndrome, the condition of chromosome is the example of:  
\* **Monosomic** \* Nullisomic \* Trisomic \* Allosomic
- ix) The total aggregate of genes in a population at any time is called:  
\* **Gene pool** \* Linkage \* Crossing over \* Genome
- x) The correct sequence of sub-stages during interphase is:  
\*  $G_1G_2S$  \*  $SG_1G_2$  \*  **$G_1SG_2$**  \*  $G_2G_1S$
- xi) This Biome is called 'the Bread Basket' of the world:  
\* Savannah \* **Grassland** \* Desert \* Tundra
- xii) The net movement of water molecule remains in equilibrium, when a cell is placed in:  
\* Hypotonic solution \* Hypertonic solution \* **Isotonic solution** \* none of these
- xiii) These are found in the soil of high salt concentration:  
\* Hydrophytes \* Mesophytes \* **Halophytes** \* Xerophytes
- xiv) Promotion of flowering by cold treatment is called:  
\* Apomixis \* Photoperiodism \* **Vernalization** \* Phototropism
- xv) Increase in diameter of a plant due to activity of vascular and cork cambium is called:  
\* Primary growth \* **Secondary growth**  
\* Abnormal growth \* Tertiary growth
- xvi) This bacterium lives in the root nodules of leguminous plants:  
\* **Rhizobium** \* Clostridium \* Cyanobacterium \* Azotobacter

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