

INTERMEDIATE PART-II (12th CLASS) (SPECIAL EXAMINATION)
BIOLOGY PAPER-II

TIME ALLOWED: 2.40 Hours

MAXIMUM MARKS: 68

SUBJECTIVE

NOTE: Write same question number and its part number on answer book,
as given in the question paper.

SECTION-I

- 2. Attempt any eight parts.** **8 × 2 = 16**
- What is pyrexia?
 - Differentiate between vasodilation and vasoconstriction.
 - What is uremia?
 - Explain briefly rigor mortis.
 - Differentiate between tendons and ligaments.
 - What are levered movements?
 - Define parthenogenesis.
 - What is gonorrhoea?
 - What is the productivity of an aquatic ecosystem?
 - Differentiate between pampas and savanna.
 - What is eutrophication?
 - What is global warming?
- 3. Attempt any eight parts.** **8 × 2 = 16**
- What is GA₃?
 - What is nervous coordination?
 - What is Cushing's disease? Enlist its symptoms.
 - Compare monohybrid and dihybrid.
 - What is Rh factor?
 - Describe the causes of MODY?
 - What is ECoR1?
 - What biotechnological products are produced by transgenic bacteria?
 - Define gene pharming.
 - Compare biosphere and habitat.
 - Define ammonification and nitrification.
 - What is commensalism?
- 4. Attempt any six parts.** **6 × 2 = 12**
- Distinguish Epiblast from Hypoblast in chick development.
 - What are teratogens? Give examples.
 - Sketch phosphodiester bond in DNA.
 - Compare conservative and semi-conservative DNA replication hypotheses.
 - Define Genetic code. Give its two important features.
 - Define Down's Syndrome.
 - What is Synapsis?
 - What is membrane invagination hypothesis?
 - Define Neo-Darwinism.

SECTION-II

- NOTE: Attempt any three questions.** **3 × 8 = 24**
- Highlight the role of liver as excretory organs. 4
 - Define ecosystem. Describe various components of an ecosystem. 4
 - What are joints? Describe their various types. 4
 - Describe Watson and Crick model of DNA. 4
 - Write the hormones of Gonads specially ovary and testes. 4
 - Explain in detail the importance of forests. 4
 - Describe various steps of human female reproductive cycle. 4
 - Explain the genetics of haemophilia. 4
 - Discuss Endosymbiont hypothesis for the evolution of Eukaryotes. 4
 - Discuss the experiments on multicellular alga to show the role of nucleus in development. 4

OBJECTIVE

MAXIMUM MARKS: 17

Note: You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill that bubble in front of that question number, on bubble sheet. Use marker or pen to fill the bubbles. Cutting or filling two or more bubbles will result in zero mark in that question. No credit will be awarded in case BUBBLES are not filled. Do not solve question on this sheet of OBJECTIVE PAPER.

Q.No.1

- (1) The waste product urea is formed from:
 (A) Cellulose (B) Protein (C) Glucose (D) Glycerol
- (2) Basking of Lizards in the sun to gain heat is an example of:
 (A) Structural Adaptations (B) Physiological Adaptations
 (C) Behavioral Adaptations (D) Ecological Adaptations
- (3) Muscle is made up of many cells which are referred to as:
 (A) Myofilaments (B) Myofibrils (C) Sarcolemma (D) Muscle fibres
- (4) The sclerenchyma cells found in seed coats and nut shells are the:
 (A) Vessels (B) Fibers (C) Sclereides (D) Tracheids
- (5) Neurotransmitter secreted at synapse outside the central nervous system is:
 (A) Acetylcholine (B) Dopamine (C) Adrenaline (D) Serotonin
- (6) Which one is the ovoviviparous?
 (A) Human (B) Cow (C) Birds (D) Duckbill platypus
- (7) The condition in which an individual has a small skull is termed as:
 (A) Harelip (B) Diabetes (C) Microcephaly (D) Epilepsy
- (8) Yellow cytoplasm gives rise to:
 (A) Larval epidermis (B) Muscle cells (C) Notochord (D) Gut
- (9) The chromosome having centromere in the centre are called:
 (A) Telocentric (B) Acrocentric (C) Submetacentric (D) Metacentric
- (10) Microtubules are composed of:
 (A) Myoglobin protein (B) Histone proteins (C) Tubulin protein and traces of RNA
 (D) Actin and myosin proteins
- (11) All are related to Turner's syndrome, except:
 (A) Broad face (B) Short stature (C) Webbed neck (D) Without ovaries
- (12) If a Haemophilic man marries a normal but carrier woman, what is the probability of their children to be a Haemophilic?
 (A) 100% (B) 75% (C) 50% (D) 25%
- (13) Antibody used for the treatment of genital herpes is obtained from:
 (A) Corn (B) Soybeans (C) Rice (D) Wheat
- (14) According to endosymbiont hypothesis, the aerobic bacteria developed into:
 (A) Mitochondria (B) Ribosomes (C) Lysosomes (D) Golgi bodies
- (15) All the food chains and food webs begin with:
 (A) Primary consumers (B) Decomposers (C) Secondary consumers (D) Producers
- (16) Coniferous forest located at high latitude are called:
 (A) Alpine (B) Boreal (C) Taiga (D) Prairies
- (17) Establishment of new forests where no forests existed previously is called:
 (A) Forestation (B) Afforestation (C) Reforestation (D) Deforestation

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BOARD OF INTERMEDIATE AND SECONDARY EDUCATION, MULTAN.
OBJECTIVE KEY FOR INTERMEDIATE ANNUAL EXAMINATION, 2021

Special

Name of Subject: Bio

Session: Special exam 2021

Q.Nos	Paper Code 4461	Paper Code 4463	Paper Code 4465	Paper Code 4467
1	B	B	D	C
2	C	B	C	D
3	D	B	A	C
4	C	C	D	A
5	A	D	C	D
6	D	C	B	C
7	C	A	D	B
8	B	D	C	D
9	D	C	A	C
10	C	B	C	A
11	A	D	B	C
12	C	C	A	B
13	B	A	D	A
14	A	C	B	D
15	D	B	B	B
16	B	A	B	B
17	B	D	C	B
18				
19				
20				

سرٹیفکیٹ بابت تصحیح سوالیہ پرچہ مارکنگ Key

ہم نے مضمون بیالوجی پرچہ II گروپ سبیل انٹر میڈیٹ پارٹ سیکنڈ سالانہ امتحان 2021ء کا سوالیہ پرچہ انشائیہ و معروضی (Subjective & Objective) کو بنظر عین چیک کر لیا ہے یہ پرچہ ALP Syllabus کے عین مطابق Set کیا گیا ہے۔ اس سوالیہ پرچہ میں کسی قسم کی کوئی غلطی نہ ہے۔ ہم نے سوالیہ پرچہ کا اردو اور انگریزی Version بھی چیک کر لیا ہے۔ یہ Version آپس میں مطابقت رکھتے ہیں۔ نیز اس پرچہ کی معروضی (MCQs) Key کی بابت تصدیق کی جاتی ہے کہ اس میں بھی کسی قسم کی کوئی غلطی نہ ہے۔ مزید یہ کہ ہم نے Key بنانے سے متعلق دفتر کی جانب سے تیار کردہ ہدایات وصول کر کے ان کا بغور مطالعہ کر لیا ہے اور ان کی روشنی میں Key بنائی ہے۔ نیز سب ایگزامینرز کیلئے تفصیلی مارکنگ ہدایات / مارکنگ سکیم / Rubrics بھی تیار کر دی گئی ہیں۔

Prepared & Checked By:

Dated: 30-11-2021

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01-12-2021 تاریخ