

BOARD OF INTERMEDIATE AND SECONDARY EDUCATION, MULTAN.
OBJECTIVE KEY FOR INTERMEDIATE 2nd ANNUAL EXAMINATION, 2022

108

Name of Subject: Bio P-II

Q. Nos	Paper Code	Correct Answer	Paper Code	Correct Answer	Paper Code	Correct Answer	Paper Code	Correct Answer
	4461		4463		4465		4467	
1	A	Aldosterone	A	Closed Coronary Artery	C	3rd Month	B	Lactic Acid
2	D	Seven(7)	C	Fire Fly	D	Gut	C	Addison's Disease
3	B	Lactic Acid	B	Mitochondria	A	Gerontology	C	3rd Month
4	C	Addison's Disease	C	Commensalism	A	AUG	D	Gut
5	C	3rd Month	B	750-1500mm	B	Gravel's Variation	A	Gerontology
6	D	Gut	C	Sulphur dioxide	C	Down's Syndrome	A	AUG
7	A	Gerontology	A	Aldosterone	B	X-Linked	B	Gravel's Variation
8	A	AUG	D	(7)	A	Closed Coronary Artery	C	Down's Syndrome
9	B	Gravel's Variation	B	Lactic Acid	C	Fire Fly	B	X-Linked
10	C	Down's Syndrome	C	Addison's Disease	B	Mitochondria	A	Closed Coronary Artery
11	B	X-Linked	C	3rd Month	C	Commensalism	C	Fire Fly
12	A	Closed Coronary Artery	D	Gut	B	750-1500mm	B	Mitochondria
13	C	Fire Fly	A	Gerontology	C	Sulphur dioxide	C	Commensalism
14	B	Mitochondria	A	AUG	A	Aldosterone	B	750-1500mm
15	C	Commensalism	B	Gravel's Variation	D	(7)	C	Sulphur dioxide
16	B	750-1500mm	C	Down's Syndrome	B	Lactic Acid	A	Aldosterone
17	C	Sulphur dioxide	B	X-Linked	C	Addison's Disease	D	(7)
18								
19								
20								

مرتب شدہ بابت صحیح سوالیہ پرچہ مارکنگ Key

ہم نے مضمون Biology پرچہ part-II گروپ A انٹرمیڈیٹ 2nd سالانہ امتحان 2022ء کا سوالیہ پرچہ انشائیہ و معروضی (Subjective & Objective) کو بنظر عمیق چیک کر لیا ہے یہ پرچہ Syllabus کے عین مطابق Set کیا گیا ہے۔ اس سوالیہ پرچہ میں کسی قسم کی کوئی غلطی نہ ہے۔ ہم نے سوائے 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: 10-12-22

S.#	Name	Designation	Institution	Mobile No	Signature
1	Dr. M. Nazam Aftab	A.P	Govt. W.H. Gh. Gomalue College Multan	0310-6382928	Ishtiaq
2	Tariq Mahmood	A.P	Govt. Millat College Multan	0300-6361448	Tariq
3	Dr. Shahid Iqbal	Professor	Govt. Civil Lines College Multan	0300-6365788	Shahid
4	Lubna Ansari	A.P	Govt. Zainab Associated College Multan	0300-7197486	Lubna
5	Fauzia Mohsin	A.P	Govt. Associate College Multan	0301-7503075	Fauzia

Chungi no: 14 Multan

10-12-22

تاریخ

BIOLOGY PAPER-II

TIME ALLOWED: 20 Minutes

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) Sodium uptake in nephron is promoted by:
(A) Aldosterone (B) ADH (C) FSH (D) Glucagon
- (2) The number of cervical vertebrae are:
(A) 22 (B) 33 (C) 12 (D) 7
- (3) Muscle fatigue is caused due to accumulation of:
(A) Glucose (B) Lactic acid (C) Fats (D) ATP
- (4) Excess MSH is secreted in:
(A) Grave's disease (B) Parkinson's disease (C) Addison's disease (D) Alzheimer's disease
- (5) At which month of pregnancy, human embryo is referred to as the fetus:
(A) 1st month (B) 2nd month (C) 3rd month (D) 4th month
- (6) Gray vegetal cytoplasm gives rise to:
(A) Notochord (B) Larval epidermis (C) Muscle cells (D) Gut
- (7) Study of Aging is called:
(A) Gerontology (B) Teratology (C) Paleontology (D) Cytology
- (8) Which one of following is not stop codon?
(A) AUG (B) UAA (C) UAG (D) UGA
- (9) All of the following are significances of mitosis except:
(A) Regeneration (B) Genetic variation (C) Asexual reproduction (D) Growth
- (10) Protruding tongue, broad face and squint eyes are symptoms of:
(A) Turner's syndrome (B) Edward syndrome (C) Down's syndrome (D) Jacob's syndrome
- (11) Which of these traits zigzags from maternal grandfather through carrier daughter to grandson?
(A) Autosomal (B) X-linked (C) Y-linked (D) X and Y linked
- (12) A balloon catheter is used to treat:
(A) Closed coronary artery (B) SCID (C) Cystic fibrosis (D) Cancer
- (13) The enzyme luciferase is not produced by an insect except:
(A) Butterfly (B) Fruit fly (C) Fire fly (D) House fly
- (14) According to endosymbiotic hypothesis, aerobic bacteria developed into:
(A) Lysosome (B) Mitochondria (C) Ribosome (D) Mesosome
- (15) The relationship of shark with remoras is an example of:
(A) Grazing (B) Predation (C) Commensalism (D) Parasitism
- (16) The average rainfall in temperate deciduous forest is between:
(A) 600 – 1500 mm (B) 750 – 1500 mm (C) 650 – 1500 mm (D) 700 – 1500 mm
- (17) Lung cancer is caused due to:
(A) CFC's (B) Oxides of nitrogen (C) Sulphur dioxide (D) Carbon monoxide

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BIOLOGY PAPER-II

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INTERMEDIATE PART-II (12th CLASS)**BIOLOGY PAPER-II**

TIME ALLOWED: 2.40 Hours

SUBJECTIVE

MAXIMUM MARKS: 68

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**

- (i) Homeostasis is the central requirement in the maintenance of an organism. How?
- (ii) Differentiate between Osmoregulators and Osmoconformers.
- (iii) What is anhydrobiosis?
- (iv) Explain vertebral column.
- (v) What are Hinge Joint?
- (vi) What is Hematoma formation?
- (vii) What is Gestation period? Discuss.
- (viii) Discuss the phenomenon of ovulation in human female. Also discuss the role of hormones in ovulation.
- (ix) What are Phytoplanktons?
- (x) Discuss adaptation for terrestrial ecosystem.
- (xi) What is Eutrophication?
- (xii) Write a note on industrial effluents.

3. Attempt any eight parts.**8 × 2 = 16**

- (i) How a centralized nervous system is better than a diffused nervous system?
- (ii) Comment on sudden transient alterations in brain function frequently associated with changes in consciousness.
- (iii) Why most hormones have prolonged or delayed effects in plants?
- (iv) Differentiate between genotype and phenotype with example.
- (v) What is Law of Independent Assortment?
- (vi) Define Erythroblastosis foetalis.
- (vii) Give two ways to get Gene of interest.
- (viii) What is Taq polymerase? Give its significance.
- (ix) What is Gene therapy?
- (x) Differentiate between primary succession and secondary succession.
- (xi) What is Grazing? Give its significance.
- (xii) How population sizes of predator and prey are maintained in an ecosystem?

4. Attempt any six parts.**6 × 2 = 12**

- (i) Write down some important physiological changes that take place during aging.
- (ii) Which metabolic defects are responsible for abnormal development?
- (iii) Differentiate between transcription and translation.
- (iv) What is meant by universality of genetic code?
- (v) What is transformation?
- (vi) State diplotene.
- (vii) Define Turner's syndrome.
- (viii) What are homologous organs?
- (ix) How endangered species can be preserved?

SECTION-II

NOTE: Attempt any three questions.

3 × 8 = 24

- 5.(a) Write a note on kidney stones. Mention the incidence of different types of kidney stones. 4
- (b) Give an account of food web. Describe the interactions between different trophic levels. 4
- 6.(a) Elaborate the role of plant hormones in plant movement. 4
- (b) Describe the work of Meselson and Stahl to justify the semi-conservative replication as the correct method of replication. 4
- 7.(a) Manipulate working of receptors with special reference to skin. 4
- (b) Explain modification of environment. 4
- 8.(a) Describe the types of parthenogenesis in animals. 4
- (b) What is dominance? Discuss the details of complete dominance and incomplete dominance. 2 + 2 = 4
- 9.(a) Discuss the various external factors that effect the growth of plants. 4
- (b) Suggest and explain the various factors affecting the gene frequency. 4