

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

209

Name of Subject: Biology part-I

Q. Nos	Paper Code 2461	Correct Answer	Paper Code 2463	Correct Answer	Paper Code 2465	Correct Answer	Paper Code 2467	Correct Answer
1	C	Manganese	C	40%	C	Tetracycline	D	Nerve cells
2	B	Ribose	D	Respiration	B	Chrysoophyta	D	Influenza virus
3	C	Covalent bond	B	Reduces	D	Non-hyphal & unicellular	C	Tetracycline
4	D	Nerve cells	C	Manganese	C	Selaginella	B	Chrysoophyta
5	D	Influenza virus	B	Ribose	C	origin	D	Non-Hyphal & Unicellular
6	C	Tetracycline	C	Covalent bond	D	Dorsal CNS	C	Selaginella
7	B	Chrysoophyta	D	Nerve cells	C	ATP	C	origin
8	D	Non-hyphal & unicellular	D	Influenza virus	B	2	D	Dorsal CNS
9	C	Selaginella	C	Tetracycline	D	Helix	C	ATP
10	C	origin	B	Chrysoophyta	C	40%	B	2
11	D	Dorsal CNS	D	Non-Hyphal & unicellular	D	Respiration	D	Helix
12	C	ATP	C	Selaginella	B	Reduces	C	40%
13	B	2	C	origin	C	Manganese	B	Respiration
14	D	Helix	D	Dorsal CNS	B	Ribose	B	Reduces
15	C	40%	C	ATP	C	Covalent bond	C	Manganese
16	D	Respiration	B	2	D	Nerve cells	B	Ribose
17	B	Reduces	D	Helix	D	Influenza virus	C	Covalent bond
18								
19								
20								

برقیکیٹ بابت صحیح سوال پرچہ مارکنگ Key

ہم نے مضمون بائولوجی پرچہ I گروپ X انٹرمیڈیٹ یکینڈ 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 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: 23-12-2022

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24-12-2022 تاریخ

Sr #	Code	Error Indicated	Sr #	Code	Error Indicated
1.	UN	Un-Necessary	8.	SP	Spelling Error
2.	Ir	Irrelevant	9.	P	Punctuation
3.	IN	Incomplete	10.	Wo	Wrong word error
4.	EX	Extra	11.	Wt	Wrong Tense
5.	Rp	Re-Produced	12.	Wf	Wrong Form
6.	I	Insufficient	13.	OA	Over Attempt
7.	Gr	Grammar Error			

اہم نوٹ: ہر سوال "Full Award" سے کم نمبر لگانے کی صورت میں وجہ ضرور لکھیں۔

Subjective

Section-I

Q. No. 2

- (i) Glycosidic linkage + Equation = 1+1=2
- (ii) Reason = 2
- (iii) Reason = 2
- (iv) Name of enzyme + pH = 1+1=2
- (v) Parasexuality definition = 2
- (vi) Two differences = 1+1=2
- (vii) Two differences = 1+1=2
- (viii) Asexual Reproduction (Budding) = 2
- (ix) Two Affinity of Echinoderm = 1+1=2
- (x) Marsupial mammal + Example = 1+1=2
- (xi) Action + Absorption spectrum = 1+1=2
- (xii) photosystem & name its parts = 1+1=2

Q. No. 3

- (i) phyletic lineage definition = 2
- (ii) IDM definition = 2
- (iii) Scheldien & schewan = 2
Cell Theory
- (iv) primary & secondary cell wall diff composition = 1+1=2
- (v) + Zooflagellate = vorticella + Trypanosoma
- (vi) Ciliates = Stenor & 1+1=2
- (vii) Red Tides formation = 2

BIOLOGY PAPER-I

TIME ALLOWED: 20 Minutes

MAXIMUM MARKS: 17

OBJECTIVE

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) Trace bioelement present in human is:
 (A) Oxygen (B) Carbon (C) Manganese (D) Calcium
- (2) Monosaccharide present in ATP molecule is:
 (A) Ribulose (B) Ribose (C) Deoxyribose (D) Glucose
- (3) Prosthetic group (non-protein part) is attached with an enzyme by:
 (A) Ionic bond (B) Disulphide bond (C) Covalent bond (D) Hydrogen bond
- (4) The cells which transmit impulses are called:
 (A) Muscle cells (B) Glial cells (C) Gland cells (D) Nerve cells
- (5) A cellular infectious particles which are enveloped and RNA containing:
 (A) Pox virus (B) HBV (C) HAV (D) Influenza virus
- (6) Antibiotic causes permanent discoloration of teeth is:
 (A) Penicillin (B) Streptomycin (C) Tetracycline (D) Sulfonamide
- (7) Diatoms belong to the phylum:
 (A) Phaeophyta (B) Chrysophyta (C) Rhodophyta (D) Chlorophyta
- (8) Yeast is different from the rest of fungi because it is:
 (A) Multicellular (B) Eukaryote (C) Unicellular (D) Non-hyphal and Unicellular
- (9) Two kinds of spores are present in:
 (A) Lycopodium (B) Liver Wort (C) Selaginella (D) Anthoceros
- (10) Echinoderm Skeleton is called endoskeleton because of its:
 (A) Position (B) Growth (C) Origin (D) Function
- (11) Chordates are dissected from ventral side because of:
 (A) Lateral CNS (B) Ventral CNS (C) Ventral-Lateral CNS (D) Dorsal CNS
- (12) Phosphofructokinase activity is inhibited because of optimal concentration of:
 (A) ADP (B) NADH (C) ATP (D) NAD^+
- (13) Decarboxylation of two molecules of pyruvate produce _____ molecules of CO_2 .
 (A) 4 (B) 2 (C) 3 (D) 8
- (14) Scraping type of feeding occurs in:
 (A) Hydra (B) Spotted dogfish (C) Whale (D) Helix
- (15) Air spaces upto _____ of total volume of leaf:
 (A) 60 % (B) 12000% (C) 40% (D) 50%
- (16) Active transport is energy dependent and selective because it is dependent on:
 (A) Excretion (B) Digestion (C) Reproduction (D) Respiration
- (17) Solute _____ total kinetic energy of water.
 (A) Increases (B) Reduces (C) Maintains (D) Increases and reduces

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BIOLOGY PAPER-I

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**
- How a glycosidic linkage is formed between two monosaccharides? Write equation.
 - Why the effect of irreversible inhibitors cannot be neutralized?
 - Why without enzymes life may become ceased?
 - Name an enzyme which act in alkaline medium and also write its pH.
 - What is Parasexuality?
 - Differentiate between Plasmogamy and Karyogamy.
 - Differentiate between polyps and medusae.
 - How sponges reproduce asexually?
 - Write two affinities of echinoderms with chordates.
 - What are marsupial mammals, give an example.
 - Differentiate between action spectrum and absorption spectrum.
 - What is photosystem, name its two parts.
3. **Attempt any eight parts.** **8 × 2 = 16**
- What is phyletic lineage?
 - Define integrated disease management?
 - What was the out come of working of Schleiden and Schwann?
 - How composition of primary wall and secondary wall is different from each other?
 - Separate ciliates from zooflagellates from the following:
 - (a) Vorticella (b) Euglena (c) Trypanosoma (d) Stentor
 - How red tides are formed?
 - Differentiate between micronucleus and macronucleus.
 - What is Physarum Polycephalum?
 - Why bryophytes are called amphibians of the plant world?
 - Define circinate vernation.
 - What is symplast pathway?
 - Define Hypertension.
4. **Attempt any six parts.** **6 × 2 = 12**
- What are the symptoms of small pox?
 - Differentiate between saprophytic and parasitic bacteria.
 - Write the functions of large intestine.
 - Give two main functions of human liver.
 - What is ulcer?
 - How earth worm carry oxygen in its body?
 - Where is diaphragm located? State its role in breathing.
 - Describe lung capacities.
 - How gills are most effective and highly modified for gaseous exchange?

SECTION-II

NOTE: Attempt any three questions.

3 × 8 = 24

- 5.(a) Describe three pronged action taken against various diseases. 4
- (b) Define Ascent of sap and describe cohesion tension theory. 1 + 3 = 4
- 6.(a) Compare secondary and tertiary structure of Proteins. 4
- (b) Discuss various methods of getting nutrition in Fungi. 4
- 7.(a) What should we keep in mind before taking antibiotics? Give detail 4
- (b) How flowers play their role to increase plant population? 4
- 8.(a) Illustrate life cycles of bacteriophage diagrammatically. 4
- (b) Describe and sketch Kerbs cycle. 4
- 9.(a) Explain the structure and functions of cell membrane. 2 + 2 = 4
- (b) Explain the structure and function of stomach. 4