

**BOARD OF INTERMEDIATE AND SECONDARY EDUCATION, MULTAN.**  
**OBJECTIVE KEY FOR INTERMEDIATE 2nd ANNUAL EXAMINATION, 2025.**

Name of Subject: Biology part - I Group: 2nd Annual 2025

| Q. Nos      | Paper Code  | Correct Answer           | Paper Code  | Correct Answer           | Paper Code  | Correct Answer           | Paper Code  | Correct Answer           |
|-------------|-------------|--------------------------|-------------|--------------------------|-------------|--------------------------|-------------|--------------------------|
|             | <b>2461</b> |                          | <b>2463</b> |                          | <b>2465</b> |                          | <b>2467</b> |                          |
| 1           | C           | 500 million years ago    | C           | Lycopodium               | B           | Three branches           | A           | B                        |
| 2           | A           | 63.1°C                   | B           | Pin worm                 | D           | 20ml/100ml               | B           | 14000 μm                 |
| 3           | B           | 10°C                     | A           | Panoramic                | A           | xylem vessels            | C           | Radiolarians             |
| 4           | D           | Lipids                   | D           | Photosynthetic membranes | C           | 7-9%                     | D           | Lungs                    |
| 5           | A           | B                        | C           | Pyruvic acid             | C           | 500 million years ago    | C           | Lycopodium               |
| 6           | B           | 14000 μm                 | B           | Three branches           | A           | 63.1°C                   | B           | Pin worm                 |
| 7           | C           | Radiolarians             | D           | 20ml/100ml               | B           | 10°C                     | A           | Panoramic                |
| 8           | D           | Lungs                    | A           | xylem vessels            | D           | Lipids                   | D           | Photosynthetic membranes |
| 9           | C           | Lycopodium               | C           | 7-9%                     | A           | B                        | C           | Pyruvic acid             |
| 10          | B           | Pin worms                | C           | 500 million years ago    | B           | 14000 μm                 | B           | Three branches           |
| 11          | A           | Panoramic                | A           | 63.1°C                   | C           | Radiolarians             | D           | 20ml/100ml               |
| 12          | D           | Photosynthetic membranes | B           | 10°C                     | D           | Lungs                    | A           | xylem vessels            |
| 13          | C           | Pyruvic acid             | D           | Lipids                   | C           | Lycopodium               | C           | 7-9%                     |
| 14          | B           | Three branches           | A           | B                        | B           | Pin worm                 | C           | 500 million years ago    |
| 15          | D           | 20ml/100ml               | B           | 14000 μm                 | A           | Panoramic                | A           | 63.1°C                   |
| 16          | A           | xylem vessels            | C           | Radiolarians             | D           | Photosynthetic membranes | B           | 10°C                     |
| 17          | C           | 7-9%                     | D           | Lungs                    | C           | Pyruvic acid             | D           | Lipids                   |
| 18          |             |                          |             |                          |             |                          |             |                          |
| 19          |             |                          |             |                          |             |                          |             |                          |
| 20          |             |                          |             |                          |             |                          |             |                          |
| Cross Check | A B C D     |                          | A B C D     |                          | A B C D     |                          | A B C D     |                          |
| Total       | 4 4 5 4     |                          | 4 4 5 4     |                          | 4 4 5 4     |                          | 4 4 5 4     |                          |

**برقیکیٹ بابت صحیح سوال پرچہ مارکنگ Key**

ہم نے مضمون Bio پرچہ I گروپ I میٹرک پہلا سالانہ امتحان 2024 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 سیم / Rubrics بھی تیار کر دی گئی ہیں۔

Prepared & Checked By:

Dated: 25-11-2025

| S.# | Name              | Designation | Institution                     | Mobile No    | Signature |
|-----|-------------------|-------------|---------------------------------|--------------|-----------|
| 1   | Tasir Mahmood     | A.P         | G.M.G.C Multan                  | 03006361448  | Tasir     |
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| 4   |                   |             |                                 |              |           |
| 5   |                   |             |                                 |              |           |

Re-Checked By ہم نے درج بالا سوالیہ پرچہ (انشائیہ + معروضی) معروضی "Key" اور ہدایات کے حوالہ سے مکمل طور پر تہیہ کر لی ہے۔ کسی قسم کی کوئی غلطی نہ ہے۔

|   |                          |           |                                         |              |        |
|---|--------------------------|-----------|-----------------------------------------|--------------|--------|
| 1 | M. Mazhar Iqbal          | Asso Prof | G.G.CS Multan                           | 03027493385  | Mazhar |
| 2 | Dr. Muhammad Zafar Malik | Professor | Govt Graduate College of Science Multan | 0334-4194053 | MZ     |

25-11-25 تاریخ

# ثانوی و اعلیٰ ثانوی تعلیمی بورڈ، ملتان

مورخہ: 25-11-25 مضمون: Biology پرچہ: I گروپ: 2nd Annual 2025

جنرل ہدایات برائے مارکنگ ہدایات (مارکنگ سکیم)

انٹرمیڈیٹ دوسرا سالانہ امتحان 2025

| 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۔

(Page No.1) مارکنگ Key اس صفحہ سے شروع کریں

Q # 2

Section-I

سوال نمبر 2:

- (I) Definition + Significance = 1+1
- (II) Location of enzyme = 2
- III Effect of Enzyme conc. = 2
- IV Reason = 2
- V Definition = 2
- VI Rust + Smut Definition 1+1 = 2
- VII Minimum any Two Characters 1+1 = 2
- VIII Octopus Brain Significance = 2
- IX Reason = 2
- X Two adaptations 1+1 = 2
- XI Reason = 2
- XII Definition = 2

Q # 3 =

- (I) Four geographical periods  $\frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} = 2$
- (II) Pasteurization technique = 2
- III Label diagram 2

Rechecked  
Dr. Muhammad Zafar  
M.A. in Science  
G.O.C. Multan  
May 2025

# ثانوی واعلیٰ ثانوی تعلیمی بورڈ، ملتان

2024 Annual 2025: گروپ: I Biology: مضمون: 25-11-25 مورخہ

جملہ ہدایات برائے مارکنگ Key (مارکنگ سکیم)

انٹرمیڈیٹ دوسرا سالانہ امتحان 2025

- IV Definition + Role  $1+1=2$
- V Historical perspective of protista = 2
- VI Mode of nutrition = 2
- VII Two Characters  $1+1=2$
- VIII Four importance of Algae  $\frac{1}{2}+\frac{1}{2}+\frac{1}{2}+\frac{1}{2}=2$
- IX Label diagram = 2
- X Any four steps  $\frac{1}{2}+\frac{1}{2}+\frac{1}{2}+\frac{1}{2}=2$
- XI Flow Sheet Diagram of blood flow of Fish = 2
- XII Two Comparison  $1+1=2$

Q#21 =

- (I) Hepatitis + Reason  $1+1=2$
- II Definition + importance  $1+1=2$
- III Mechanism = 2
- IV Methods of nutrition in earth worm = 2
- V Definition + example  $1+1=2$
- VI Role of Peroxisome = 2
- VII Reason = 2
- VIII Role of Carbonic anhydrase = 2
- IX Cause + effect  $1+1=2$

Rechecked.

Dr. Muhammad Nazeem  
G.C. & Science  
Muttan

May 2025

For  
10/11

## ثانوی واعلیٰ ثانوی تعلیمی بورڈ، ملتان

2nd Annual: گروپ: I Bib: 25-11-25 مورخہ: 25-11-25

جنرل ہدایات برائے مارکنگ Key (مارکنگ سکیم)

انٹرنیٹ دوسرا سالانہ امتحان 2025ء

## Section - II

$$\underline{6 \neq 5} =$$

(a) Population + Community level  $2+2=4$

(b) Difference + System  $1+3 = 4$

Q 6

(a) Four properties of water 1+1+1+1 = 4

(b) Four methods of Nutrition in Fungi  
1+1+1+1 = 4

Q7

(a) Modes of Nutrition in Bacteria

Autotrophic + Heterotrophic  $2+2=4$

(b) Evolution of leaf steps = ④

$Q \neq 8$  (a)

Q #8 (a) Definition + Rules + Reason = 1 + 2 + 1 = 4

(b) only Sketch of Non-cyclic & cyclic Phosphorylation (4) 2+2

A#9

= (a) Centroids detail as in Book = (4)

(b) Digestion in cockroach + diagram 3+1=4

(Dr. Shahid civil line college  
Iqbal)

Tariq Mahmood (A-P)

*[Signature]*

10

*Checked.*

*A. D. G.*  
*G. M. 2098 N. Main*  
*G. C. of*  
*Santa Monica*  
*Nashua*

| 2025 (2 <sup>nd</sup> -A)                                                                             |                                                                                                          | Roll No:          |
|-------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-------------------|
| INTERMEDIATE PART-I (11 <sup>th</sup> Class)                                                          |                                                                                                          |                   |
| BIOLOGY PAPER-I                                                                                       |                                                                                                          |                   |
| TIME ALLOWED: 2.40 Hours                                                                              | SUBJECTIVE                                                                                               | MAXIMUM MARKS: 68 |
| NOTE: Write same question number and its parts number on answer book, as given in the question paper. |                                                                                                          |                   |
| SECTION-I                                                                                             |                                                                                                          |                   |
| 2. Attempt any eight parts.                                                                           |                                                                                                          | 8×2 = 16          |
| (i)                                                                                                   | Define Heat Capacity of Water. Give its significance.                                                    |                   |
| (ii)                                                                                                  | Enlist different locations of enzymes in the cell.                                                       |                   |
| (iii)                                                                                                 | What is effect of enzyme concentration on the rate of enzyme action?                                     |                   |
| (iv)                                                                                                  | How does an enzyme accelerates a metabolic reaction?                                                     |                   |
| (v)                                                                                                   | What is Nuclear Mitosis?                                                                                 |                   |
| (vi)                                                                                                  | What are Rusts and Smuts?                                                                                |                   |
| (vii)✓                                                                                                | Give some characters of Class Oligochaeta.                                                               |                   |
| (viii)                                                                                                | Brain of Octopus is large. Give its significance.                                                        |                   |
| (ix)                                                                                                  | Why earthworm is called Natural Plough?                                                                  |                   |
| (x)                                                                                                   | Give some parasitic adaptations of phylum platyhelminthes.                                               |                   |
| (xi)                                                                                                  | Why does cyclic phosphorylation occur?                                                                   |                   |
| (xii)                                                                                                 | What is oxidative phosphorylation?                                                                       |                   |
| 3. Attempt any eight parts.                                                                           |                                                                                                          | 8×2 = 16          |
| (i)                                                                                                   | Enlist at least four various geological periods.                                                         |                   |
| (ii)                                                                                                  | How can you preserve milk and milk products?                                                             |                   |
| (iii)                                                                                                 | Draw a labelled diagram of a generalized prokaryotic cell.                                               |                   |
| (iv)✓                                                                                                 | What are Polysomes? Write down its role.                                                                 |                   |
| (v)✓                                                                                                  | Illustrate the historical perspective of protoctista.                                                    |                   |
| (vi)✓                                                                                                 | Describe the mode of nutrition in flagellates.                                                           |                   |
| (vii)                                                                                                 | What do you know about Diatoms?                                                                          |                   |
| (viii)✓                                                                                               | Describe at least four importances of algae.                                                             |                   |
| (ix)✓                                                                                                 | Draw a labelled diagram of sporophyte of hornwort.                                                       |                   |
| (x)                                                                                                   | Write down the names of the steps involved in evolution of leaf.                                         |                   |
| (xi)✓                                                                                                 | How does blood flow in the valve of fish? (Single circuit heart).                                        |                   |
| (xii)✓                                                                                                | Compare the apoplast with symplast pathway.                                                              |                   |
| 4. Attempt any six parts.                                                                             |                                                                                                          | 6×2 = 12          |
| (i)✓                                                                                                  | What is hepatitis B and why is it called as serum hepatitis?                                             |                   |
| (ii)✓                                                                                                 | What is Slime? Give its importance.                                                                      |                   |
| (iii)✓                                                                                                | How does Drosera intermedia fulfill its protein requirements?                                            |                   |
| (iv)                                                                                                  | How does earthworm get nutrition?                                                                        |                   |
| (v)✓                                                                                                  | What are Omnivores? Give examples.                                                                       |                   |
| (vi)✓                                                                                                 | What is the role of peroxisome in photorespiration?                                                      |                   |
| (vii)✓                                                                                                | Why is thin epithelium of respiratory surface necessary for gaseous exchange?                            |                   |
| (viii)                                                                                                | Write down the role of carbonic anhydrase in the transport of CO <sub>2</sub> .                          |                   |
| (ix)✓                                                                                                 | Give the causes and effects of Asthma.                                                                   |                   |
| SECTION-II                                                                                            |                                                                                                          |                   |
| NOTE: Attempt any three questions.                                                                    |                                                                                                          | 3×8 = 24          |
| 5.(a)                                                                                                 | Describe population and community level of Biological organization.                                      | 2+2=4             |
| (b)                                                                                                   | Differentiate between lymph capillaries and lymph nodes.<br>Explain major functions of lymphatic system. | 1+3=4             |
| 6.(a)                                                                                                 | Describe any four properties of water.                                                                   | 4                 |
| (b)                                                                                                   | Discuss various methods of nutrition in Fungi.                                                           | 4                 |
| 7.(a)                                                                                                 | Describe the various modes of nutrition in Bacteria.                                                     | 4                 |
| (b)                                                                                                   | Write a note on evolution of leaf also explain various steps of leaf evolution.                          | 4                 |
| 8.(a)                                                                                                 | What is Binomial Nomenclature? Give its rules, why it is required?                                       | 4                 |
| (b)                                                                                                   | Explain light dependent reactions with diagrammatic representation.                                      | 4                 |
| 9.(a)                                                                                                 | Discuss in detail regarding centrioles.                                                                  | 4                 |
| (b)                                                                                                   | How does digestion take place in cockroach?                                                              | 4                 |

|                            |                                                                                                                                                                                                                                                                                                              |                                                                           |                       |                       |                          |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|-----------------------|-----------------------|--------------------------|
| Paper Code<br>Number: 2461 |                                                                                                                                                                                                                                                                                                              | 2025 (2 <sup>nd</sup> -A)<br>INTERMEDIATE PART-I (11 <sup>th</sup> Class) |                       | Roll No: _____        |                          |
| BIOLOGY PAPER-I            |                                                                                                                                                                                                                                                                                                              |                                                                           |                       |                       |                          |
| TIME ALLOWED: 20 Minutes   |                                                                                                                                                                                                                                                                                                              | OBJECTIVE                                                                 |                       | MAXIMUM MARKS: 17     |                          |
| Q.No.1                     | 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. |                                                                           |                       |                       |                          |
| S.#                        | QUESTIONS                                                                                                                                                                                                                                                                                                    | A                                                                         | B                     | C                     | D                        |
| 1                          | The Ordovician period was present:                                                                                                                                                                                                                                                                           | 300 million years ago                                                     | 400 million years ago | 500 million years ago | 600 million years ago    |
| 2                          | The melting point of palmitic acid is:                                                                                                                                                                                                                                                                       | 63.1°C                                                                    | 63.2°C                | 63.3°C                | 63.4°C                   |
| 3                          | The reaction rate of enzyme action becomes double for each ____ rise in temperature.                                                                                                                                                                                                                         | 5°C                                                                       | 10°C                  | 15°C                  | 20°C                     |
| 4                          | In Tay-Sach's disease an enzyme is absent that is involved in the catabolism of:                                                                                                                                                                                                                             | Proteins                                                                  | Carbohydrates         | Vitamins              | Lipids                   |
| 5                          | The fatigue, loss of appetite and jaundice are the symptoms of Hepatitis:                                                                                                                                                                                                                                    | B                                                                         | C                     | D                     | E                        |
| 6                          | Escherichi-coli closed circle chromosome measures approximately:                                                                                                                                                                                                                                             | 4000 μm                                                                   | 14000 μm              | 24000 μm              | 34000 μm                 |
| 7                          | The actinopod having glassy shell:                                                                                                                                                                                                                                                                           | Vorticella                                                                | Radiobarians          | Radiolarians          | Radiobarians             |
| 8                          | Histoplasmosis is a serious infection of:                                                                                                                                                                                                                                                                    | Eyes                                                                      | Skin                  | Nails                 | Lungs                    |
| 9                          | The example of a club moss is:                                                                                                                                                                                                                                                                               | Porella                                                                   | Equisetum             | Lycopodium            | Psilotum                 |
| 10                         | Enterobius-vermicularis is commonly known as:                                                                                                                                                                                                                                                                | Hook worm                                                                 | Pin worm              | Thread worm           | Round worm               |
| 11                         | The spiders eyes give them ____ view of the predators and prey.                                                                                                                                                                                                                                              | Panoramic                                                                 | Anoramic              | Ranoramic             | Lanoramic                |
| 12                         | In Prokaryotes the chlorophyll is present in:                                                                                                                                                                                                                                                                | Stroma of chloroplast                                                     | Thylakoid membranes   | Granum of chloroplast | Photosynthetic membranes |
| 13                         | Glycolysis is the breakdown of glucose upto the formation of:                                                                                                                                                                                                                                                | Lactic acid                                                               | Acetic acid           | Pyruvic acid          | Carbonic acid            |
| 14                         | The intestine of Planaria immediately divides into:                                                                                                                                                                                                                                                          | Two branches                                                              | Three branches        | Four branches         | Five branches            |
| 15                         | The maximum amount of O <sub>2</sub> which human blood normally absorbs and carries at sea level is:                                                                                                                                                                                                         | 2ml / 100ml                                                               | 12ml / 100ml          | 16ml / 100ml          | 20ml / 100ml             |
| 16                         | The lignin and cellulose provides strength to the cell wall of:                                                                                                                                                                                                                                              | Xylem vessels                                                             | Phloem                | Phloem vessels        | Xylem                    |
| 17                         | The plasma protein constitute ____ by weight of plasma.                                                                                                                                                                                                                                                      | 3 – 9 percent                                                             | 5 – 9 percent         | 7 – 9 percent         | 9 – 9 percent            |

25(Obj)(★)-2025(2<sup>nd</sup>-A)-

(MULTAN)

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|                            |                                                                                             |                                                                                                                                                                                                                                                                                                              |                       |                       |                          |
|----------------------------|---------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|--------------------------|
| Paper Code<br>Number: 2463 |                                                                                             | 2025 (2 <sup>nd</sup> -A)<br>INTERMEDIATE PART-I (11 <sup>th</sup> Class)                                                                                                                                                                                                                                    |                       | Roll No: _____        |                          |
| BIOLOGY PAPER-I            |                                                                                             |                                                                                                                                                                                                                                                                                                              |                       |                       |                          |
| TIME ALLOWED: 20 Minutes   |                                                                                             | OBJECTIVE                                                                                                                                                                                                                                                                                                    |                       | MAXIMUM MARKS: 17     |                          |
| Q.No.1                     |                                                                                             | 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. |                       |                       |                          |
| S.#                        | QUESTIONS                                                                                   | A                                                                                                                                                                                                                                                                                                            | B                     | C                     | D                        |
| 1                          | The example of a club moss is:                                                              | Porella                                                                                                                                                                                                                                                                                                      | Equisetum             | Lycopodium            | Psilotum                 |
| 2                          | Enterobius-vermicularis is commonly known as:                                               | Hook worm                                                                                                                                                                                                                                                                                                    | Pin worm              | Thread worm           | Round worm               |
| 3                          | The spiders eyes give them _____ view of the predators and prey.                            | Panoramic                                                                                                                                                                                                                                                                                                    | Anoramic              | Ranoramic             | Lanoramic                |
| 4                          | In Prokaryotes the chlorophyll is present in:                                               | Stroma of chloroplast                                                                                                                                                                                                                                                                                        | Thylakoid membranes   | Granum of chloroplast | Photosynthetic membranes |
| 5                          | Glycolysis is the breakdown of glucose upto the formation of:                               | Lactic acid                                                                                                                                                                                                                                                                                                  | Acetic acid           | Pyruvic acid          | Carbonic acid            |
| 6                          | The intestine of Planaria immediately divides into:                                         | Two branches                                                                                                                                                                                                                                                                                                 | Three branches        | Four branches         | Five branches            |
| 7                          | The maximum amount of $O_2$ which human blood normally absorbs and carries at sea level is: | 2ml / 100ml                                                                                                                                                                                                                                                                                                  | 12ml / 100ml          | 16ml / 100ml          | 20ml / 100ml             |
| 8                          | The lignin and cellulose provides strength to the cell wall of:                             | Xylem vessels                                                                                                                                                                                                                                                                                                | Phloem                | Phloem vessels        | Xylem                    |
| 9                          | The plasma protein constitute _____ by weight of plasma.                                    | 3 – 9 percent                                                                                                                                                                                                                                                                                                | 5 – 9 percent         | 7 – 9 percent         | 9 – 9 percent            |
| 10                         | The Ordovician period was present:                                                          | 300 million years ago                                                                                                                                                                                                                                                                                        | 400 million years ago | 500 million years ago | 600 million years ago    |
| 11                         | The melting point of palmitic acid is:                                                      | 63.1°C                                                                                                                                                                                                                                                                                                       | 63.2°C                | 63.3°C                | 63.4°C                   |
| 12                         | The reaction rate of enzyme action becomes double for each _____ rise in temperature.       | 5°C                                                                                                                                                                                                                                                                                                          | 10°C                  | 15°C                  | 20°C                     |
| 13                         | In Tay-Sach's disease an enzyme is absent that is involved in the catabolism of:            | Proteins                                                                                                                                                                                                                                                                                                     | Carbohydrates         | Vitamins              | Lipids                   |
| 14                         | The fatigue, loss of appetite and jaundice are the symptoms of Hepatitis:                   | B                                                                                                                                                                                                                                                                                                            | C                     | D                     | E                        |
| 15                         | Escherichi-coli closed circle chromosome measures approximately:                            | 4000 $\mu m$                                                                                                                                                                                                                                                                                                 | 14000 $\mu m$         | 24000 $\mu m$         | 34000 $\mu m$            |
| 16                         | The actinopod having glassy shell:                                                          | Vorticella                                                                                                                                                                                                                                                                                                   | Radiolarians          | Radiolarians          | Radiotarians             |
| 17                         | Histoplasmosis is a serious infection of:                                                   | Eyes                                                                                                                                                                                                                                                                                                         | Skin                  | Nails                 | Lungs                    |

|                            |                                                                                                                                                                                                                                                                                                              |                                                                           |                       |                       |                          |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|-----------------------|-----------------------|--------------------------|
| Paper Code<br>Number: 2465 |                                                                                                                                                                                                                                                                                                              | 2025 (2 <sup>nd</sup> -A)<br>INTERMEDIATE PART-I (11 <sup>th</sup> Class) |                       | Roll No:              |                          |
| BIOLOGY PAPER-I            |                                                                                                                                                                                                                                                                                                              |                                                                           |                       |                       |                          |
| TIME ALLOWED: 20 Minutes   |                                                                                                                                                                                                                                                                                                              | OBJECTIVE                                                                 |                       | MAXIMUM MARKS: 17     |                          |
| Q.No.1                     | 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. |                                                                           |                       |                       |                          |
| S.#                        | QUESTIONS                                                                                                                                                                                                                                                                                                    | A                                                                         | B                     | C                     | D                        |
| 1                          | The intestine of Planaria immediately divides into:                                                                                                                                                                                                                                                          | Two branches                                                              | Three branches        | Four branches         | Five branches            |
| 2                          | The maximum amount of $O_2$ which human blood normally absorbs and carries at sea level is:                                                                                                                                                                                                                  | 2ml /100ml                                                                | 12ml /100ml           | 16ml /100ml           | 20ml /100ml              |
| 3                          | The lignin and cellulose provides strength to the cell wall of:                                                                                                                                                                                                                                              | Xylem vessels                                                             | Phloem                | Phloem vessels        | Xylem                    |
| 4                          | The plasma protein constitute _____ by weight of plasma.                                                                                                                                                                                                                                                     | 3 – 9 percent                                                             | 5 – 9 percent         | 7 – 9 percent         | 9 – 9 percent            |
| 5                          | The Ordovician period was present:                                                                                                                                                                                                                                                                           | 300 million years ago                                                     | 400 million years ago | 500 million years ago | 600 million years ago    |
| 6                          | The melting point of palmitic acid is:                                                                                                                                                                                                                                                                       | 63.1°C                                                                    | 63.2°C                | 63.3°C                | 63.4°C                   |
| 7                          | The reaction rate of enzyme action becomes double for each _____ rise in temperature.                                                                                                                                                                                                                        | 5°C                                                                       | 10°C                  | 15°C                  | 20°C                     |
| 8                          | In Tay-Sach's disease an enzyme is absent that is involved in the catabolism of:                                                                                                                                                                                                                             | Proteins                                                                  | Carbohydrates         | Vitamins              | Lipids                   |
| 9                          | The fatigue, loss of appetite and jaundice are the symptoms of Hepatitis:                                                                                                                                                                                                                                    | B                                                                         | C                     | D                     | E                        |
| 10                         | Escherichi-coli closed circle chromosome measures approximately:                                                                                                                                                                                                                                             | 4000 $\mu m$                                                              | 14000 $\mu m$         | 24000 $\mu m$         | 34000 $\mu m$            |
| 11                         | The actinopod having glassy shell:                                                                                                                                                                                                                                                                           | Vorticella                                                                | Radiotarians          | Radiolarians          | Radiotarians             |
| 12                         | Histoplasmosis is a serious infection of:                                                                                                                                                                                                                                                                    | Eyes                                                                      | Skin                  | Nails                 | Lungs                    |
| 13                         | The example of a club moss is:                                                                                                                                                                                                                                                                               | Porella                                                                   | Equisetum             | Lycopodium            | Psilotum                 |
| 14                         | Enterobius-vermicularis is commonly known as:                                                                                                                                                                                                                                                                | Hook worm                                                                 | Pin worm              | Thread worm           | Round worm               |
| 15                         | The spiders eyes give them _____ view of the predators and prey.                                                                                                                                                                                                                                             | Panoramic                                                                 | Anoramic              | Ranoramic             | Lanoramic                |
| 16                         | In Prokaryotes the chlorophyll is present in:                                                                                                                                                                                                                                                                | Stroma of chloroplast                                                     | Thylakoid membranes   | Granum of chloroplast | Photosynthetic membranes |
| 17                         | Glycolysis is the breakdown of glucose upto the formation of:                                                                                                                                                                                                                                                | Lactic acid                                                               | Acetic acid           | Pyruvic acid          | Carbonic acid            |

|                            |                                                                                                                                                                                                                                                                                                              |                                                                           |                       |                       |                          |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|-----------------------|-----------------------|--------------------------|
| Paper Code<br>Number: 2467 |                                                                                                                                                                                                                                                                                                              | 2025 (2 <sup>nd</sup> -A)<br>INTERMEDIATE PART-I (11 <sup>th</sup> Class) |                       | Roll No: _____        |                          |
| BIOLOGY PAPER-I            |                                                                                                                                                                                                                                                                                                              |                                                                           |                       |                       |                          |
| TIME ALLOWED: 20 Minutes   |                                                                                                                                                                                                                                                                                                              | OBJECTIVE                                                                 |                       | MAXIMUM MARKS: 17     |                          |
| Q.No.1                     | 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. |                                                                           |                       |                       |                          |
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| 10                         | The intestine of Planaria immediately divides into:                                                                                                                                                                                                                                                          | Two branches                                                              | Three branches        | Four branches         | Five branches            |
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| 13                         | The plasma protein constitute _____ by weight of plasma.                                                                                                                                                                                                                                                     | 3 – 9 percent                                                             | 5 – 9 percent         | 7 – 9 percent         | 9 – 9 percent            |
| 14                         | The Ordovician period was present:                                                                                                                                                                                                                                                                           | 300 million years ago                                                     | 400 million years ago | 500 million years ago | 600 million years ago    |
| 15                         | The melting point of palmitic acid is:                                                                                                                                                                                                                                                                       | 63.1° C                                                                   | 63.2° C               | 63.3° C               | 63.4° C                  |
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