

INTERMEDIATE PART-I (11th CLASS)**BIOLOGY PAPER-I**

TIME ALLOWED: 3.10 Hours

MAXIMUM MARKS: 83

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**
- (i) What is Integrated Disease Management?
 - (ii) Differentiate between Organ and Organelle.
 - (iii) What are Conjugated Molecules? Give two examples.
 - (iv) How does substrate concentration effect rate of Enzyme action?
 - (v) Differentiate between Spores and Conidia.
 - (vi) What is a Co-factor? How does it help in Enzyme action?
 - (vii) What is an Activator? Give two examples.
 - (viii) How do oomycotes differ from fungi?
 - (ix) Why are green Algae considered ancestors of Plants?
 - (x) Differentiate between Micronuclei and Macronuclei of Ciliates?
 - (xi) What is Chlorella? Give its two uses.
 - (xii) Differentiate between Plasmogamy and Karyogamy.
- 3. Attempt any eight parts. 8 × 2 = 16**
- (i) Define Polysome and make its structure.
 - (ii) What is the role of Glyoxysome in Germinating Seed?
 - (iii) Define Hermaphrodite and Protandrous.
 - (iv) What are Coral Reefs?
 - (v) Differentiate between Infestation and Disinfestation.
 - (vi) Define Metamorphosis in insects.
 - (vii) Define Compensation Point.
 - (viii) Define oxidative phosphorylation and write its equation.
 - (ix) What are causes and symptoms of Asthma?
 - (x) Write the effect of two factors which effect the binding of Oxygen with haemoglobin.
 - (xi) How the parabronchi are more efficient?
 - (xii) Write two characteristics of Respiratory Surface.
- 4. Attempt any six parts. 6 × 2 = 12**
- (i) How HIV destroys the Immune System?
 - (ii) What is the role of Mesosomes in Bacteria?
 - (iii) Define alternation of Generations.
 - (iv) What advance characters are found in the sporophyte of anthoceros as compared to hepaticopsida and bryopsida?
 - (v) What do you know about Ulcer?
 - (vi) What is a Bolus?
 - (vii) Write down the substrates and products for the following enzymes:-
(a) Aminopeptidase (b) Lipase
 - (viii) Define Blood Pressure. What are its values for a normal individual?
 - (ix) Differentiate between Active Immunity and Passive Immunity?

SECTION-II**NOTE: - Attempt any three questions of the following:-**

- 5.(a) Describe role of Biology in the field of Health. 4
 (b) Explain Life Cycle of Adiantum. 4
- 6.(a) What are Polysaccharides? Describe their different types. 4
 (b) Describe Digestion in Stomach. 4
- 7.(a) Give the structure of Chloroplast. Draw its diagram also. 4
 (b) Describe Deuteromycetes. 4
- 8.(a) Sketch the reactions of Krebs Cycle. 4
 (b) Describe Hepatitis in detail. 4
- 9.(a) What is the Cell Envelope? Describe the outer wrapping in bacteria. 4
 (b) Describe the Cohesion Tension Theory in Ascent of Sap. 4

SECTION-III (PRACTICAL)**10. Attempt any three parts.**

- (A).(i) You are provided with starch solution and solution of iodine. Write down biochemical test for the substance present in it. 3
 (ii) What are Monosaccharides? Give one example. 2
- (B).(i) You are provided with the flower *Avena Sativa*. Describe following parts in technical terms.
 (a) Androecium (b) Gynoecium (c) Perianth 3
 (ii) What is Inflorescence? 2
- (C) Sketch and label respiratory system of frog. 5
- (D).(i) Write procedure to measure blood pressure during rest and after exercise with B.P apparatus. 3
 (ii) Define Systolic Blood Pressure and Diastolic Blood Pressure. 2
- (E) Give reasons for the identification of the following specimen:- 5
 (i) *Chlamydomonas* (ii) T.S of dicot root (iii) *Spirogyra*
 (iv) *Adiantum* (Gametophyte) (v) *Paramecium*

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 circle in front of that question number. Use marker or pen to fill the circles. Cutting or filling two or more circles will result in zero mark in that question. Attempt as many questions as given in objective type question paper and leave others blank. 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) _____ is used in Bioremediation.
 (A) Fungi (B) Algae (C) Plants (D) Bacteria
- (2) Nucleic acid was discovered by:-
 (A) Sanger (B) F. Miescher (C) Watson (D) Wilkin
- (3) Non-protein part of enzyme is called:-
 (A) Inhibitor (B) Substrate (C) Co-factor (D) Coenzyme
- (4) The structure present in Prokaryotes is:-
 (A) Mitochondria (B) Ribosome (C) E.R. (D) Golgi bodies
- (5) The biological name of Amaltas is:-
 (A) Allium cepa (B) Cassia fistula (C) Solanum tuberosum (D) Solanum esculentum
- (6) Accessory pigment in cyanobacteria are:-
 (A) Chlorophyll (B) Phycobilins (C) Xanthophylls (D) Carotene
- (7) Radiolarians belong to:-
 (A) Zooflagellates (B) Amoeba (C) Actinopods (D) Foraminiferans
- (8) _____ is used for lowering of blood pressure.
 (A) Penicillium (B) Lovastatin (C) Cyclosporin (D) Ergotone
- (9) Chlorophyll is present in:-
 (A) Stroma (B) Thylakoids (C) Granum (D) Intergranum
- (10) Botulism is caused by:-
 (A) Salmonella (B) Campylobacter (C) Clostridium (D) E. Coli
- (11) Lenticels are present in:-
 (A) Leaves (B) Roots (C) Bark (D) Stem
- (12) The recording of electrical potential is:-
 (A) E.C.G. (B) Pacemaker (C) Blue babies (D) S. A node
- (13) _____ is used in active immunity.
 (A) Antibody (B) Vaccines (C) Antisera (D) Antigens
- (14) Katha, a dye is obtained from:-
 (A) Acacia nilotica (B) Albizzia Lebbeck (C) Acacia Catechu (D) Prosopis Cineraria
- (15) The perianth of the family Poaceae is called:-
 (A) Lemma (B) Palea (C) Lodicules (D) Glumes
- (16) The sexual reproduction in sponges takes place by:-
 (A) Fragmentation (B) Gemmules (C) Gonads (D) Binary fission
- (17) Polymorphism is present in:-
 (A) Obelia (B) Actinia (C) Madrepora (D) Hydra

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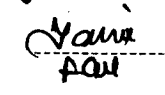
**BOARD OF INTERMEDIATE AND SECONDARY EDUCATION,
MULTAN**
OBJECTIVE KEY FOR INTER (PART I / II) Supply Examination, 2016.
Name of Subject Bio Session _____

Q. Nos.	Paper Code	Paper Code	Paper Code	Paper Code
	6461	6463	6465	6467
1.	B	C	B	B
2.	B	B	B	B
3.	C	A	C	C
4.	B	B	C	B
5.	B	B	A	B
6.	B	C	B	C
7.	C	B	C	C
8.	B	B	C	A
9.	B	B	B	B
10.	C	C	A	C
11.	C	B	B	C
12.	A	B	B	B
13.	B	C	C	A
14.	C	C	B	B
15.	C	A	B	B
16.	B	B	B	C
17.	A	C	C	B
18.				
19.				
20.				

سرٹیفیکیٹ بابت تصحیح سوالیہ پرچہ/ مارکنگ Key

ہم نے مضمون Bio پرچہ I گروپ: _____ سکیم _____ انٹرمیڈیٹ/مضامین امتحان 2016ء کا سوالیہ پرچہ اشاعت شدہ ہے۔
(Subjective & Objective) کو بنظر عین چیک کر لیا ہے یہ پرچہ سلیبس کے عین مطابق Set کیا گیا ہے۔ اس سوالیہ پرچہ میں کوئی غلطی
نظمی نہ ہے۔ ہم نے سوالیہ پرچہ کا اردو انگریزی Version بھی چیک کر لیا ہے یہ Version آپس میں مطابقت رکھتے ہیں اور سلیبس (Syllabus)
کے مطابق بھی ہیں۔ نیز اس پرچہ کی Key کی بابت بھی تصدیق کی جاتی ہے کہ یہ بھی درست بنائی گئی ہے۔ 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۔

PREPARED & CHECKED BY

Sr. No.	Name	Designation	Institution	Mobile No.	Signature.
1-	JAFAR HUSSAIN SHAM	Associate Lect. W.H.I	College Multan	0300-6342663	
2-	TAHIRA ALI LECTURER	G.C.(W)	MARHOOM FAHID MULAN	0300-7497884	

ثانوی و اعلیٰ ثانوی تعلیمی بورڈ، ملتان

گروپ I: 9-11-16 مضمون: BIO

جزل ہدایات برائے مارکنگ Key نیو سکیم اولڈ سکیم (مارکنگ سکیم)

انٹرنیٹ فرسٹ ایچ ایس ایچ ایس امتحان 2016ء

SECTION - I

Q2:-

- (i) According to Text Book.
- (ii) Definition (1+1)
- (iii) Definition + Example = (1+1) (iv) As in Text Book.
- (v) one difference (1+1) (vi) (1+1)
- (vii) Definition + Example (1+1) (viii) (1+1)
- (ix) As in Text Book. (x) (1+1)
- (xi) Definition + uses = (1+1) (xii) (1+1)

Q3 =

- (i) Definition + Structure (1+1)
- (ii) As in Text Book. (iii) (1+1)
- (iv) As in Text Book. (v) (1+1)
- (vi) As in Text Book. (vii) As in Text Book.
- (viii) Definition + Equation (1+1) (ix) Causes + Symptoms (1+1)
- (x) Effect of Two Factors (1+1) (xi) As in Text Book.
- (xii) As in Text Book (Two characters)

Q.4-

- (i) As in Text Book. (ii) As in Text Book.
- (iii) As in Text Book. (iv) As in Text Book.
- (v) As in Text Book (vi) As in Text Book.
- (vii) (1+1) (viii) (1+1) (ix) (1+1)

SECTION II

- Q.5 = a) Mark as a whole (As in Text Book)
- (b) Description + Diagram = (2+2)

Q.6 a) Definition + Types = (1+3)

b) Diagram + Description = (1+3)

general instructions

Chauhan
Aqvi
9/11/16
Tahira Aqvi

Hussain
09/11/16
JAFAR HUSSAIN
SHAH

ثانوی و اعلیٰ ثانوی تعلیمی بورڈ، ملتان

درجہ: II پرچہ: Bio مضمون: 9-11-16

جزل ہدایات برائے مارکنگ Key نیو سکیم اولڈ سکیم (مارکنگ سکیم)

انٹرنیٹ فرسٹ ایچ ایچ ملتان ضمنی امتحان 2016ء

Q. 7 = a) Structural Description + Diagram (3+1)
b) As in Text Book / Mark as a whole.

Q. 8 = a) Sketch only = (04)
b) Mark as a whole.

Q. 9 = a) Mark as a whole. As in Text Book.
b) Mark as a whole.

SECTION - III (PRACTICAL)

Q. 10 =

A) (i) (3+2)

(ii) (1+1)

B) (i) (1+1+1)

(ii) Definition (2)

C) - Sketch + Labelling (3+2)

D) (i) Procedure in detail (3)

(ii) (1+1)

E) Reason For Identification (5x1).

J Hussain
0300-6342663
(JAFAR HUSSAIN SHAH)
Govt. W.H.I. College
Mullān

Tahira Lawi
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