2017 (A) Roll No: _____

INTERMEDIATE PART-I (11th CLASS)

BIOLOGY PAPER-I (NEW SCHEME) (SESSION 2015-2017) GROUP-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**

(i) What are Globular proteins? Give examples.
(ii) Write down any four characteristics of Enzymes.
(iii) How temperature affect Enzyme Action?
(iv) Differentiate between Competitive and Non-competitive Inhibitors.
(v) What are Lichens?
(vi) Differentiate between fragmentation and Budding in Fungi.
(vii) Write down any four adaptations of parasitic mode of life in platyhelminthes.
(viii) Write down function of swim bladder.
(ix) How are Echinoderms related to hemichordates?
(x) Give any four characteristics of reptilia.
(xi) What is Photophophorylation?
(xii) What is meant by Internal Respiration?

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

(i) Differentiate between Law and Theory.
(ii) Define the term fresh water biology and biotechnology.
(iii) What are Storage Diseases? Give one example.
(iv) Define the term Polysome. Also give its function.
(v) Write down the main features of Ciliates.
(vi) What are Apicomplexans? Give example.
(vii) What are Choanoflagellates?
(viii) What are Trichonymphas? Give their role.
(ix) Write down the main difference between Microphylls and Megaphylls.
(x) Define the term Circinate Vernation.
(xi) Differentiate between Diaphragm and Pleura.
(xii) What is Pulmonary Tuberculosis? Write down its cause.

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

(i) What is Reverse Transcriptase?
(ii) Define Chemotaxis.
(iii) Enlist Gastric Glands with their secretion in man.
(iv) What are gall stones? Mention their effect.
(v) How fatty acids and Glycerol are absorbed into blood?
(vi) How expiration occurs in Cockroach?
(vii) What are Vocal Cords? Give their function.
(viii) Write down Carbon Dioxide Concentration in Arterial and Venous Blood.
(ix) Define Emphysema.

SECTION-II

NOTE: - Attempt any three questions.

5.(a) Discuss the role of Biology in Protection and Conservation of Environment. 2 + 2 = 4

(b) Write a detailed note on Cohesion Tension Theory. 1 + 1 + 1 + 1 = 4

6.(a) Describe Secondary and Tertiary Structure of Protein. 4

(b) Explain digestion in Planaria. 4

7.(a) Give comparison between Prokaryotic and Eukaryotic Cell. 4

(b) Give the outline of the Krebs cycle. (Description not required) 4

8.(a) Write a detailed note on Hepatitis. 4

(b) Give the list of various steps involved in the evolution of Seed Habit. 4

9.(a) Write a note on the Cell envelope of Bacteria. 4

(b) Give general characters of Group Basidiomycota. 4

Paper Code Number: 2461

2017 (A) Roll No._____

INTERMEDIATE PART-I (11th CLASS)

BIOLOGY PAPER-I (NEW SCHEME) (SESSION 2015-2017) GROUP-I

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 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) An aphid that attacks walnut tree is being controlled biologically by:-
(A) Wasp (B) Housefly (C) Honey Bee (D) Mosquito

(2) The most abundant Carbohydrate in nature is:-
(A) Starch (B) Glycogen (C) Cellolose (D) Agar

(3) Optimum pH pepsin is:-
(A) 2.00 (B) 4.50 (C) 5.50 (D) 7.00

(4) The fluid that surrounds the thylakoid is called:-
(A) Matrix (B) Stroma (C) Medium (D) Cytoplasm

(5) Solanum esculentum is the scientific name of:-
(A) Potato (B) Tobacco (C) Onion (D) Tomato

(6) A Bacterium with a tuft of flagella at one pole is:-
(A) Peritrichous (B) Amphitrichous (C) Atrichous (D) Lophotrichous

(7) African sleeping sickness is caused by:-
(A) Trypanasoma (B) Entameoba (C) Plasmodium (D) Stentor

(8) Citric acid is obtained from:-
(A) Penicillium (B) Aspergillus (C) Sacchromyces (D) Neurospora

(9) _____ plants are said to be amphibian's of plants.
(A) Angiosperm (B) Gymnosperm (C) Bryophyte (D) Pteridophyte

(10) If bile pigments are accumulated in Blood, condition is known as:-
(A) Gall stone (B) Jaundice (C) Pyrosis (D) Heart pang

(11) During photorespiration glycine after its formation diffuse into:-
(A) Ribosome (B) Mitochondria (C) Peroxisome (D) Glyoxisome

(12) Sea Urchin belongs to phylum:-
(A) Coelantrata (B) Porifera (C) Nematoda (D) Echinodermata

(13) Polyp and Medusa are examples of:-
(A) Coelentrata (B) Porifera (C) Nematoda (D) Arthropoda

(14) Glycolysis mean breakdown of:-
(A) Lipid (B) Glucose (C) Carbohydrate (D) Protein

(15) Chlorophyll 'a' is:-
(A) Yellow green (B) Blue green (C) Orange green (D) Violet blue

(16) Single circuit heart is found in:-
(A) Birds (B) Fishes (C) Reptiles (D) Mammals

(17) A substance that inhibit blood clotting is:-
(A) Heparin (B) Fibrinogen (C) Fibrin (D) Thrombin

2017 (A) Roll No: _____

INTERMEDIATE PART-I (11th CLASS)

BIOLOGY PAPER-I (NEW SCHEME) (SESSION 2015-2017) GROUP-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) What are Conjugated Molecules?
(ii) What is lock and key model of Enzyme Action?
(iii) Differentiate between Enzyme and Co-enzyme.
(iv) What is the effect of substrate concentration on the rate of enzyme action?
(v) What are Lichens? Give example.
(vi) What is Holoenzyme?
(vii) Differentiate between Acoelomates and Pseudocoelomates.
(viii) Differentiate between Diploblastic and Triploblastic Organisation.
(ix) What is Polymorphism? Give the name of Zooids in obelia.
(x) What are three basic characters of Chordates?
(xi) Define Chemiosmosis.
(xii) What is Anaerobic Respiration?

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

(i) Write the names of four eras of geological time chart.
(ii) What is Hydroponic Culture Technique? Give its importance.
(iii) Define Congenital Disease. Give example.
(iv) How cell wall of plants differ from Prokaryotes?
(v) What is Giant Amoeba? How does it obtain energy?
(vi) What are Kelps? Give their importance.
(vii) How Algae differ from Plants?
(viii) Give the importance of Chlorella.
(ix) What are Gymnosperms? Give example.
(x) What is Circinate Vernation.
(xi) Define Osmosis.
(xii) What is Bleeding in Plants?

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

(i) What are Retroviruses?
(ii) Give structure & composition of Bacterial Cell Wall.
(iii) What are ingredients of human saliva? Give their role.
(iv) Why our stomach produce more gastric juice if we have more proteins in our diet?
(v) What is Ulcer?
(vi) What do you know about Spiracles?
(vii) Define Breathing. Give its frequency.
(viii) How haemoglobin helps in transport of Oxygen?
(ix) Relate lung cancer with smoking.

SECTION-II

NOTE: - Attempt any three questions.

5.(a) Write a note on Biological Method of Learning. 4

(b) Explain uptake of water by roots, give different pathways taken up by water. 4

6.(a) Define Transcription. Explain types of RNA's. 4

(b) Explain the structure and function of Large Intestine in Man 4

7.(a) Write a note on Endoplasmic Reticulum. 4

(b) Differentiate between Aerobic and Anaerobic Respiration. 4

8.(a) Sketch the infection cycle of HIV. 4

(b) Describe the process of Evolution of Leaf. 4

9.(a) Describe physical and chemical methods to control bacteria. 4

(b) Write a note asexual reproduction in Fungi. 4

Paper Code Number: 2462

2017 (A) Roll No._____

INTERMEDIATE PART-I (11th CLASS)

BIOLOGY PAPER-I (NEW SCHEME) (SESSION 2015-2017) GROUP-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 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) The inhibitor which may destroy the Globular structure of Enzyme is:-

(A) Competitive (B) Non-competitive (C) Reversible (D) Irreversible

(2) The tentative explanation of observations is called:-

(A) Law (B) Theory (C) Hypothesis (D) Deduction

(3) Monosaccharides, which are rare in nature and occur in some bacteria is:-

(A) Trioses (B) Tetroses (C) Pentoses (D) Hexoses

(4) The protein present in Microtubules is:-

(A) Actin (B) Myosin (C) Tubulin (D) Tropomyosin

(5) The smallest known viruses contain RNA in spherical Capsid are the:-

(A) Polio Viruses (B) Pox Viruses (C) Herpes Viruses (D) Influenza Viruses

(6) A cube of eight Cocci is termed as:-

(A) Tetrad (B) Sarcina (C) Diplococcus (D) Streptococcus

(7) Trypanosoma is an example of:-

(A) Actinopods (B) Zooflagellates (C) Ciliates (D) Apicomplexans

(8) _____ is used to inhibit fungal growth.

(A) Lovastatin (B) Ergotine (C) Cyclosporine (D) Griseofulvin

(9) Arachis hypogea belongs to the family of:-

(A) Rosaceae (B) Solanaceae (C) Fabaceae (D) Poaceae

(10) The pores by which the water leaves the body of sponges is called:-

(A) Ostia (B) Mouth (C) Anus (D) Osculum

(11) The body cavity of Nematoda is:-

(A) Blastocoel (B) Pseudocoelom (C) Coelom (D) Haemocoelom

(12) The dark reactions occur in:-

(A) Chloroplast (B) Cytoplasm (C) Grana (D) Stroma

(13) Formula of Lactic acid is:-

(A) $C_3H_4O_3$ (B) $C_3H_5O_3$ (C) $C_3H_6O_3$ (D) C_3H_5OH

(14) Emulsification is the function of:-

(A) Bile (B) Lipase (C) Amylase (D) Protease

(15) Myoglobin occurs in:-

(A) Red Blood Cells (B) White Blood Cells (C) Plasma (D) Muscle Fibers

(16) Passive immunity is developed by injecting:-

(A) Vaccine (B) Serum (C) Antiserum (D) Antibiotic

(17) Bleeding Phenomenon is not shown by:-

(A) Strawberry (B) Sugar maple (C) Grape Wine (D) Palms

BOARD OF INTERMEDIATE AND SECONDARY EDUCATION, MULTAN

OBJECTIVE KEY FOR INTER (PART-I / II) Annual Examination, 2017.

Name of Subject Bio-I Session 2015-17

Group: 1st

Q. Nos.	Paper Code 2461	Paper Code 2463	Paper Code 2465	Paper Code 2467
1.	A	C	B	D
2.	C	D	C	D
3.	A	A	B	A
4.	B	B	C	B
5.	D	B	D	C
6.	D	B	A	B
7.	A	A	B	C
8.	B	A	B	D
9.	C	C	B	A
10.	B	A	A	B
11.	C	B	A	B
12.	D	D	C	B
13.	A	D	A	A
14.	B	A	B	A
15.	B	B	D	C
16.	B	C	D	A
17.	A	B	A	B
18.				
19.				
20.				

Group: 2nd

Q. Nos.	Paper Code 2462	Paper Code 2464	Paper Code 2466	Paper Code 2468
1.	D	B	D	A
2.	C	D	C	B
3.	B	C	D	B
4.	C	A	B	D
5.	A	D	D	C
6.	B	C	C	D
7.	B	A	A	B
8.	D	D	D	D
9.	C	C	C	C
10.	D	B	A	A
11.	B	C	D	D
12.	D	A	C	C
13.	C	B	B	A
14.	A	B	C	D
15.	D	D	A	C
16.	C	C	B	B
17.	A	D	B	C
18.				
19.				
20.				

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BOARD OF INTERMEDIATE AND SECONDARY EDUCATION, MULTAN

OBJECTIVE KEY FOR INTER (PART-I (A)) Examination, 2017.

Name of Subject Bio Session 2017.

Q. Nos.	Paper Code	Paper Code	Paper Code	Paper Code
	2461	2463	2465	2467
1.	A	C/B	B	D
2.	C	D	C	D
3.	A	A	B	A
4.	B	B	C/B	B
5.	D	B	D	C
6.	D	B	A	B
7.	A	A	B	C/B
8.	B	A	B	D
9.	C	C	B	A
10.	B	A	A	B
11.	C/B	B	A	B
12.	D	D	C	B
13.	A	D	A	A
14.	B	A	B	A
15.	B	B	D	C
16.	B	C	D	A
17.	A	B	A	B
18.				
19.				
20.				