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BIO-ZOOLOGY - (5) Marks for 11th std.

Unit - 1 [Volume - 1]

Chapter - 1 [The living World]

1) Basic need for classification (2)
2) 3 - Domains Life (5)
3) 5 (five) Kingdom classification (6)
4) Differenciate Binomial & Trinomial nomenclature (10)
5) Rules of Nomenclature (11)
6) Tools for taxonomy → Classical, Molecular, Automated
species identification (12)

Chapter - 2 [Kingdom of Animalia]

1) Levels of Organisation
(15, 16) ↳ Cell, Tissue, Organ and organ System
2) Difference of Diploblastic & Triploblastic (18)
3) Short note - Symmetry and its types. (18)
4) Coelom - Explain (19)
5) Classification of Kingdom Animalia (21)
6) Special characters of → Porifera (22), Cnidaria (22)
Ctenophora (23), Platyhelminthes (24), Aschelminthes (24)
Annelida (25), Arthropoda (26), Mollusca (27) V.V.I.
Echinodermata (28)
7) Differenciate chordates and Non chordates (29)
8) General characters of Chordata (29)
9) Urochordata and cephalochordata (30)
10) Vertebrate / chordate Special features (31) V.V.I.
11) Amphibia, Reptiles, Aves, Mammals - characters (32, 33, 34)

UNIT - II

Chapter - 3 [Tissue Level of Organization]

1) Classification of Animal tissue (43)
2) Types of Glandular epithials (45)
3) Connective tissue - Explain (47)

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8) Absorption and Assimilation Process (93)
9) Caloric value of Carbohydrate, Proteins, Fats (96)
10) Nutrition and digestive disorders (96, 97, 98)
11)

Chapter - 6 [Respiration]

1) Functions of respiratory System (106)
2) Human Respiratory System (106, 107)
3) Characters of respiratory Surface (109)
4) Steps involved in respiration (109)
5) Mechanism of breathing (109, 110) ✓
6) Surfactants (109)
7) Respiratory Volumes and Capacities (111, 112)
8) Exchange of gases in Alveoli (112) ✓
9) Difference of Haemoglobin and Methamoglobin (113)
10) Transport of O_2 (114)
11) Transport of CO_2 (114)
12) Difference of Inspiration and Expiration (115) ✓
13) Regulation of respiration (116)
14) Problems in Oxygen transport (116)
15) Disorders of respiratory System (117)
16) Effects of Smoking (117)
17) COPD - Explain (119) ✓

Chapter - 7 [Body fluids and Circulation]

1) Composition of Blood - plasma (129)
2) Formed Elements [129, 130]
3) ABO blood grouping (131, 132) ✓
4) Rh factor (132)
5) Coagulation process of blood (132) ✓
6) Lymph functions (133, 134) ✓

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7) Structure of blood vessels (134, 135)
8) Artery and Veins - Difference (135) ✗
9) Human Circulatory System (138)
10) Origin and Conduction of Heart (138) ✗
11) Cardiac Cycle (141) ✗
12) ECG - (142) ✗
13) Blood pressure - Creative (141)
14) Describe double circulation (145)
15) Disorders of circulatory System (146)
16) CPR - Explain (147)
17) Myocardial infarction (146) ✗

Volume - II
Unit - III

Chapter - 8 [Excretion]

1) Modes of Excretion [2]
2) Various types of organism, Excretory wastes (3)
3) Human Excretory System (4)
4) Draw the Structure of Kidney (L.S) (5) ✗
5) Urine formation Process (7)
6) Structure of nephron - Explain (5) ✗
7) Draw the Diagram of Nephron (6)
8) Ornithine Cycle (9)
9) Regulation of kidney function (ADH and Diabetes) 14) ✗
10) Explain - Renin Angiotensin (16)
11) ANF Explain [16]
12) Disorders of Excretory System related diseases (17, 18)
13) Explain - Haemo-dialysis (18) ✗
14) Kidney Transplantation (19)

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Unit - IV

Chapter - 9 [Locomotion and Movement]

1) What are the types of Movement (28) (4)
2) Types of Muscle (28), Skeletal Muscle Structure (28)
3) Structure of contractile protein (30)
4) Skeletal Muscle - flow chart (31)
5) Muscle Contraction - Sliding filament theory (32, 33)
6) SMGA - Explain (34) (2)
7) Types of Skeletal Muscle Contraction (35)
8) Muscle fibres of Skeletal Muscle (35)
9) Functions of Skeletal System (37) (4)
10) Skull - Bones Explain (37)
11) Vertebral Column - Explain (37)
12) Rib Cage - Short notes (38)
13) Appendicular Skeleton (39, 40)
14) Upper and Lower Limb - Explain (40, 41) (2)
15) Structure of typical Long bone (41, 42) (2)
16) What are the types of Joint (42) (2)
17) Disorders of Muscular and Skeletal System (46, 47)
18) Benefits of regular Exercise (47)
19) Beneficials of Exercise by physiological actions (47)

Chapter - 10 [Neural Control and Co-ordination]

1) Neural System - functions (54)
2) Structure of Neuron (55) (4)
3) Explain Neuron and its types (55, 56)
4) Types of Channels and gates (57)
5) Transmission of impulse Process (57)
6) Synaptic transmission process (59, 60)
7) Brain - Explain (61, 62)
8) Explain - Limbic System (64) (2)

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9) Explain - Spinal Cord (66)
10) Reflex action and reflex arc - Explain (67)
11) What are the functions of reflex arc (67)
12) Differenciate Conditioned & Unconditioned reflex (67,68)
13) PNS - Explain (69)
14) ANS - Explain (69)
15) Difference of SNS and PNS (70)
16) Photo receptor eye - Short note (71)
17) Draw a diagram of Eye - Label the parts (73)
18) Mechanism of vision (Rod and Cone cells) (74)
19) Difference between Rod and Cone Cells (75)
20) Phono-receptor - Ear - Explain (76)
21) Mechanism of Hearing (77,78)
22) Defects of eyes (74,75)
23) Defects of Ear (78,79)
24) Olfactory receptor - Explain (80)
25) Gustatory receptor (80)
26) Skin - Sense of touch (81,82)

Chapter - 11 [Chemical Co-ordination and Integration]

1) Short note on Hypothalamus (92)
2) Hormones and functions Table (93)
3) Shortly Explain - Hypophysis / pituitary (94)
4) Hormones Secreted in the region of Adenohypophysis (94,95)
5) Hormones Secreted in Neurohypophysis (95)
6) Pineal gland (or) Third eye Explain (96)
7) Thyroid structure Explain with Diagram (96)
8) What are the functions of Thyroxine (97)
9) Functions of TGT (97)
10) Parathyroid (or) Parathormone Explain (98)

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11) Thymus Explain With Structure (98) (X.)
12) Adrenal gland Explain with Diagram (98)
13) Pancreas Explain (100)
14) Difference of Insulin and glucagon (X.) (100)
15) functions of Testosterone & Progesterone (101, 102)
16) Hormones of GIT, Heart, Kidney (103)
17) Diseases for Hypo and Hyper activity of glands (103)
18) Difference Hypo and Hyperglycemia (106, 107) (X.)
19) Mechanism of Hormone Action (109)
20)

Chapter - 12 [Trends in Economic Zoology]

1) Discuss Vermiculture (117)
2) Vermicomposting - Explain (119) (X.)
3) Advantages of Using Vermicompost (120) (X.)
4) Sericulture - Process Explain (120, 121)
5) Write Life cycle of Bombyx Mori (121, 122) (X.)
6) Explain Rearing of Silkworms (124)
7) What are the Uses of Silk (125) (X.)
8) Apiculture Process → Types of Bees (126)
9) Products of Honey bee and Economic importance (129)
10) Life cycle of Lac (130) (X.)
11) Write Economic importance of Lac (131) (X.)
12) Aquaponics - Explain (131)
13) What are the Advantages of Aquaponic gardening (132, 133)
14) What are the characteristic of Cultivable fishes (134)
15) Types of Pond - Explain (135)
16) What are the types of breeding (135)
17) characters of composite fish farming (137)
18) Economic importance of fishes (137) (X.)
19) Prawn culture - Explain (137, 138)

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20) Pearl culture & formation of Pearl (139) ·X·
21) Artificial Pearl Culture Programme, what are the measures involved (140)
22) What are the objectives of Animal breeding (142)
23) Explain Methods of Animal breeding (142)
24) MOET ·X· Explain (143)
25) Artificial insemination ·X· Advantages (142, 143)
26) what are the types of Breeds (143)
27) Write Common diseases of cattles (143) ·K·
28) Uses of Cattle breedes (144)
29) Poultry farming – Types of chicks (145)
30) Stages involved in rearing of chicks (146) ·X·
31) Poultry by Products (147) ·X·
32) Benefits of poultry farming (147)
33) Duck farming - peculiarity of ducks – Uses (147)

~×~×~×~ All the best ~×~×~×~×~

Note: The Sympol of [·X·] this one is Most important and possible to ask Public Exam in my View point.

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