

SARASWATI MAHILA MAHAVIDHYALAYA, PALWAL

LESSON-PLAN

Class: B.sc 2nd year medical

Semester: 4

Subject: zoology -2 (mammalian physiology 2)

Session:2021-2022

Lectures	Topic
1	Unit-1:- circulation- origin, conduction and regulation of heart beat
2	Cardiac cycle
3	Electrocardiogram, cardiac output
4	Fluid pressure and flow pressure in closed and open circulatory system
5	Composition and function of blood and lymph
6	Mechanism of coagulation of blood , coagulation factors
7	Anticoagulant, haemopoiesis
8	Revision
9	Unit-2:- respiration- exchange of respiratory gases, transport of gases
10	Lung air volumes,oxygen dissociation curve of hemoglobin and myoglobin
11	Bohr's effect, chloride shift
12	Control/ regulation of respiration and revision
13	Unit-3:- excretion- patterns of excretory products
14	Amonotelic, ureotelic,uricotelic
15	Ornithine cycle
16	Revision

17	Unit-3:- excretion- urine formation
18	Countet current mechanism of urine concentration
19	Osmoregulation, micturition
20	Neural integration:- nature and origin of nerve impulse
21	Propagation of nerve impulse along with medullated nerve fibre
22	Conduction of nerve impulse through synapse
23	Revision
24	Unit-4:- chemical integration of endocrinology- structure and mechanism of hormonal action
25	Physiology of hypothalamus, pituitary gland
26	Physiology of thyroid gland
27	Physiology of adrenal and parathyroid gland
28	Physiology pancreas and gonads
29	Reproduction:- gametogenesis, capacitation of spermatozoa
30	Ovulation, formation of corpus luteum, oestrous cycle
31	Menstrual cycle in human
32	Fertilization, implantation
33	Gestation
34	Revision

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