ANSWER KEY

SECOND YEAR HIGHER SECONDARY EXAMINATION -MARCH 2020

PART - III SUBJECT - ZOOLOGY

Score -30

CODE NO. SY 26.

Qn No	Sub		sure	Total
١.		□/c	1	1
2.		ZIFT/b	1	1
3.		Methanobacterium/d	1	Ī.
4.		Dryopithecus/b	1	1
5.		Alien species invasion/c	1	1
100		Microbes in Household - Microbes as Bu- products Retilizer. Propionibaeterium Sharmanii Rhiz bie v Lactic Acid Bacterium Az sp. illur Aspergillus niger Ana aena Saecharomyees cerevisiae Azon aeler	1/2 1/2 1/2 1/2 1/2	2
7	b ·	Monohybriductionsing Guidance for Youth Law of dominan e Law of Segregal?	1 1/2 1/2	2
	2	No / I don to ree Fertilize in colony occur if both overnown and sperm is transported simultaneousle line in a spullary-istimie jour of the ovidue Pallops. tube). Any other relevant response matching this may given I score)	1 1/2	. 2
•		A. Charles Darwin 3. Lamarck	1/2	

		C. Hugo de Vries D. Louis Pasteur (Any lwo right response may given full score)	1/2 1/2	2
10	a. b.	Priplet code, Universal, Commaless, Now- overlapping, Degeneracy, Ambiguity (conglus)	1 1/2+1/2	2
11	a.	Dre waltal chiagnostic technique of feetal sex- delermination of cletermination of genetic dis- orders of the foetus based on the chromosomal pattern in the aminiotic fluid surroundin developing embryo. It is banned legally to cheek the in eas.	1	2
12	a.	Malaria - plasmodium Chill & Shivering, high fever, pre us ser aling Amoebiasis - Entamoeba Constipation, Abdominal po St rewith excess - muns and bloods Academy Ceither correct name of the rese or causaline - organism may given be seen also any one correct symptom may were 1/2 score.)	1/2 1/2 1/2 1/2 1/2	2
13		i Tropical latindes we remained relative undisturber in rillions of years ii Tropical vis ments are less seasonal relatively non constant and predictable iii. There more solar energy available in the tropics a ich contribute to higher production carry full score of the predictable on the solar points carry full score of plants, sovo species of fishes, 1300 of birds, 427 of mammals, 427 of amphibian,	- E viti	

		378 of reptiles, 125,000 species of invertebrates and cup là 2 million insect-species waiting le be known.	2	2
14.		a) Opioids b) Central Nervous System / Stimulate Nervous system c) Poppy plant / Papaver sominiferrum. d) Hemp plant / Cannabis Sativa (Amy Three Everect response may given 2 Swee,	1/2 1/2 1/2 1/2	2
15.	ь.		1	2
16	а. b.	Hardy-Weinberg sincip? Gene migration (, stie driff Mutation, Crenetic recor prontion & Natural Selection (Any Th. e) or)	1/2	2
17.	b. С.	DNA. Per realion / Replication fork DNA poly crase, DNA ligase, Helicase, Topoiso merases, Primase (Any two) One Strand is formed in 5'-3' direction continuously/ Continuous strand/ Leading strand. The other new strand is formed in small stretche in 5'-3' direction / Discontinuous strand/ Lagging strand/Okazaki fragments	1 1/2+1/2 1/2 1/2	3

18		i. Avoid undue peer pressure ii. Educative and counselling iii. Looking for danger signs iv. Seeking perofessional and medical help v. Seeking help from parents and peers (Any three - other relavant points regurding this topic can also be considered)	1	3
19.	a. b.	A-Progesterone, B-Estrogen Estrogen progesterone progesterone Policular Policular	1	3
	c.	Progesterone mainfavence of endome cium e govance Outstanding Guidance for Youth	1/2	
20.		DNA dependent. A phymresase The two RNA not a is if produced simultaneous would be imprered by to each other, hence to would form. double stranded RNA. This prever to not a in and transcription become jutile. OR If both strands acts as tempolates, they would code for RNA molecules with different sequence and it they code for proteins with different sequence and it they code for proteins would be different and this would composite the genetic information transfer machinery.		3