

Bio Zoology

Section- I

I Answer all the questions

8x1=8

Choose the most suitable answer from the given four alternatives

1	Choose the number of correct statements from the following: a) Melanin a non-haemoglobin pigment secreted by melanocytes b) Melanocyte possesses a non-essential amino acid called tyrosine i) a only ii) b only iii) both a&b iv) None															
2	Choose the incorrect pair among the following a) Chondrogenesis - Cartilage formation b) Osteogenesis - Bone formation c) Osteoblast - Bone destroying cell d) Osteoclast - Bone forming cell i) a ii) b iii) c iv) d															
3	An example for continuous cell line viral culture is c) Mycoplasma d) MAB(Mono-clonal Antibodies)															
4	The lymphoid organ that tends to atrophy after puberty is a) Lymph node b) thymus c) Spleen d) Tonsil															
5	Choose the incorrect pair among the following a) Plague - Yersinia b) Syphilis - Treponema c) Gingivitis - Trichomonad d) Diarrhoea - Neisseria i) a ii) b iii) c iv) d															
6	Gene bank, seed bank, Cryopreservation comes under a) In-situ conservation b) Ex-situ conservation c) Biosphere conservation d) Biodiversity conservation															
7	Match the fishes with their respective orders <table><thead><tr><th><u>Fishes</u></th><th></th><th><u>Order</u></th></tr></thead><tbody><tr><td>a) Catfish</td><td>-</td><td>i) Siluriformes</td></tr><tr><td>b) Murrels</td><td>-</td><td>ii) Channiformes</td></tr><tr><td>c) Tilapia</td><td>-</td><td>iii) Perciformes</td></tr><tr><td>d) Carps</td><td>-</td><td>iv) Cipriniformes</td></tr></tbody></table>	<u>Fishes</u>		<u>Order</u>	a) Catfish	-	i) Siluriformes	b) Murrels	-	ii) Channiformes	c) Tilapia	-	iii) Perciformes	d) Carps	-	iv) Cipriniformes
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	1) a-i, b-ii, c-iii, d-iv	2) a-iii, b-ii, c-l, d-iv
	3) a-ii, b-iii, c-l, d-iv	4) a-iv, b-ii, c-iii, d-i
8	The best example for hybrid sterility is a) Geap b) Shoat c) Mule d) Mare	

Section- II

Write any four of the following (Q.11 compulsory)

4x2=8

9	Junk food is a source of attraction among children and adults. Enumerate the reasons and risks associated with it.
10	What is black water fever? Why is it called so?
11	What are Hassel's corpuscles?
12	Differentiate Totipotency and pluripotency.
13	What is Montreal protocol? What is its Significance?

Section- III

Write any Three of the following in which question no. 18 is compulsory

3x3=9

15	Differentiate anaemia and pernicious anaemia. How is it associated with vitamin deficiency?
16	Though lipids provide more energy, we rely on carbohydrate in diet-Why?
17	Enumerate the contributions of Medical Microbiology to the field of Medicine.
18	How do leucocytes react during inflammatory response?
19	What is DNA segmenting? Why is it done?

Section- IV

Give the answer for the following questions

2X 5 = 10

20	Write an essay on the techniques associated with correcting heart-related disorder in man Or What is Renal failure? What are the reasons for renal failure? Suggest some remedial measures and treatments.
21	Identification of gene and its function plays an instrumental role in the field of Biology- Discuss Or Write a note on Neo-Lamarckism.