

SECTION A: ANSWER SHEET

Q. No.	a	b	c	d	Q. No.	a	b	c	d
1.				✓	16.				✓
2.	✓				17.				✓
3.			✓		18.			✓	
4.			✓		19.			✓	
5.		✓			20.				✓
6.		✓			21.	✓			
7.		✓			22.				✓
8.			✓		23.			✓	
9.	✓				24.				✓
10.		✓			25.			✓	
11.		✓			26.				✓
12.				✓	27.			✓	
13.				✓	28.	✓			
14.			✓		29.	✓			
15.		✓							

	X	Y	Not attempted	
SECTION A				3X – Y =
SECTION B				3X =
Total score =				

SECTION B: ANSWER SHEET

CELL BIOLOGY (14 points)

30. (2 points) Answer: 0.180 or 0.190 moles

31. (2 points)

1: Y

2: Z

3: X

4: W

32. (3 points)

a. F

b. F

c. T

d. T

e. F

f. F

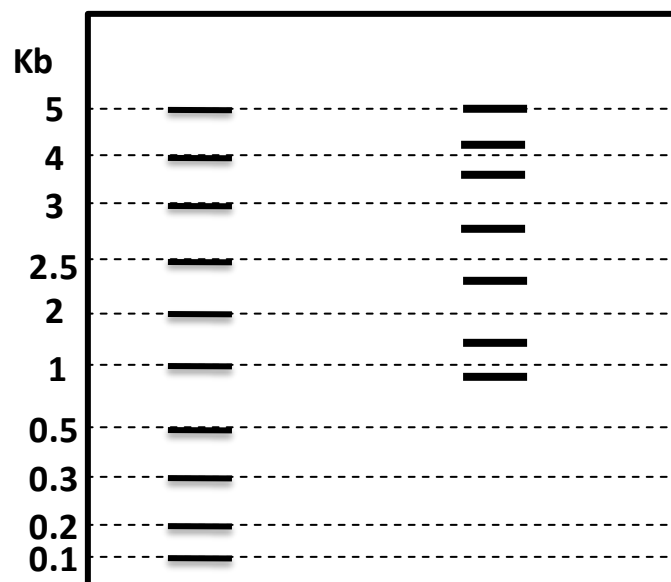
33. (1+2 = 3 points)

(A) Answer: 7 .

(B)

MW
markers

Partially
digested
sample



34. (2+2 = 4 points)

(A)

a. ___Y___

b. ___N___

c. ___N___

d. ___Y___

(B) Answer: ___I___ digestion with enzyme ___IV___ and ___I or
II___ digestion with enzyme ___V___.

PLANT SCIENCES (9 points)

35. (2 points)

Answer: P: ___a___ Q: ___b___ R: ___d___ S: ___c___

36. (2 points)

a. ___F___

b. ___T___

c. ___T___

d. ___F___

37. (0.5 + 0.5 + 2 = 3 points)

(A) ___12___ years

(B) ___1___

(C)

a. ___F___

b. ___T___

c. ___F___

d. ___F___

38. (2 points)

a. ___F___

b. ___T___

c. ___T___

d. ___T___

ANIMAL SCIENCES (7 points)

39. (2.5 points)

Interpretation	Correct	Incorrect
a.		✓
b.		✓
c.		✓
d.	✓	
e.		✓

40. (2.5 points)

a. ___F___

b. ___T___

c. ___F___

d. ___T___

e. ___T___

41. (2 points)

Modification	Insect	Function
A	IV	O
B	I	N
C	II	M
D	III	P

GENETICS & EVOLUTION (18 points)

42. (2 points)

Interpretation	Correct	Incorrect
a.		✓
b.		✓
c.		✓
d.	✓	

43. (2 points)

Genotype	Phenotype
XO:2A	c
XXY::2A	b
X:3A	f
XXX:2A	e

44. (2 points)

a. ___T___

b. ___F___

c. ___T___

d. ___F___

45. (2 points)

Answer: 1/6

46. (3 points)

(A) Answer: aaBB

(B)

Parent 1	Parent 2
AA _{bb}	A _{bb}

or

Parent 1	Parent 2
A _{bb}	AA _{bb}

47. (2 points)

a. F

b. T

c. F

d. T

48. (3 points)

I 2 : Hh I^B I^B, Hh I^B I⁰

II 3: hh I^A I^B, hh I^B I⁰

II 4: HH I^A I⁰, Hh I^A I⁰

49. (2 points)

(I) 0.25

(II) 0.25

(III) 0.25

(IV) ____0.125____

ETHOLOGY (8 points)

50. (2 points)

a. ____F____

b. ____F____

c. ____T____

d. ____F____

51. (2 points)

a. __F____

b. __F____

c. __F____

d. __T____

52. (4 points)

(A)

Situation	Favour	Not Favour
a.		✓
b.	✓	
c.	✓	
d.		✓

(B)

a. ____F____

b. ____T____

c. ____T____

d. ____F____

ECOLOGY (7 points)

53. (1+ [0.5 x 4] = 3 points)

(A)

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
Species turnover rate		0.5	0.09	0.33	0.11	0.059	0.059	0	0.05	0.2	0.05

(B) ____ 1988 ____**(C)** 1988 to 1989**(D)** 1990 to 1991**(E)** ____ 0 ____

54. (2 points)

(A) Answer: ____ 10 ____**(B)** Answer: ____ 0.4 ____

55. (2 points)

Answer: ____ 6 to 7 (6.65) ____

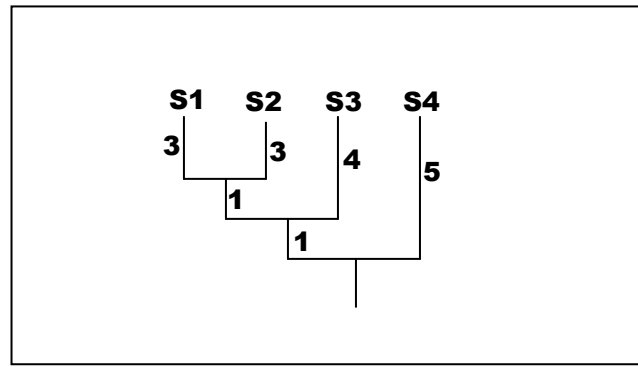
BIOSYSTEMATICS (8 points)

56. (4 points)

	Clade consisting of:	Description	Type
A	Cycads, Ginkos, Conifers and Gnetophytes	II	(ii)
B	Conifers, Gnetophytes and Angiosperms	I	(i)
C	Paramecium, Trypanosome and Euglena	I	(i)
D	Green algae, Red algae and Euglena	II	(ii)

57. (2 points)

Answer:



58. (2 points)

I. ___S___

II. ___U___

III. ___P___

IV. ___S___

***** END OF SECTION B *****