Supplementary Table I. Fortnightly Means ±SE of Temperature, DO and pH

| Treatments  | Fortnight | Temperature (°C) | DO (mgL⁻¹) | pH               |
|-------------|-----------|------------------|------------|------------------|
|             |           | Mean ± SE        | Min-Max    | Mean ± SE        | Min-Max    | Mean ± SE | Min-Max |
| T1 (without cover) | 1         | 19.4±.2829       | 18.1-21.4  | 5.15±.1184       | 4.86-6.65  | 8.27±.0437 | 8.07-8.67 |
|             | 2         | 17.3±.2572       | 16.0-18.9  | 4.12±.2406       | 3.99-5.32  | 8.19±.0427 | 8.01-8.53 |
|             | 3         | 17.7±.3656       | 15.2-19.5  | 5.93±.3656       | 3.05-7.02  | 8.27±.0264 | 8.11-8.45 |
|             | 4         | 17.2±.1790       | 16.4-18.3  | 5.40±.2850       | 4.41-6.69  | 8.26±.0166 | 8.17-8.39 |
|             | 5         | 17.9±.2642       | 16.7-19.7  | 4.81±.1981       | 3.05-5.47  | 8.23±.0164 | 8.13-8.35 |
|             | 6         | 21.7±.4698       | 19.9-23.1  | 4.86±.3847       | 3.68-5.99  | 8.31±.0843 | 8.19-8.90 |
| Overall     |           | 18.4±.2031       | 15.2-23.1  | 5.86±.1690       | 5.86-7.69  | 8.25±.0160 | 8.01-8.90 |
| T2 (with cover) | 1         | 24.7±.1653       | 23.5-26.0  | 3.68±.0932       | 2.08-5.41  | 8.16±.0213 | 8.03-8.31 |
|             | 2         | 24.6±.2147       | 23.0-25.8  | 3.66±.1338       | 2.09-5.27  | 8.24±.0557 | 8.05-8.69 |
|             | 3         | 24.6±.2401       | 23.2-26.0  | 4.38±.1431       | 3.61-6.78  | 8.28±.0491 | 8.11-8.61 |
|             | 4         | 24.3±.2974       | 22.5-25.9  | 3.52±.1396       | 2.65-4.05  | 8.16±.0188 | 8.07-8.29 |
|             | 5         | 23.9±.1893       | 22.1-24.9  | 4.61±.1689       | 3.63-5.27  | 8.22±.0293 | 8.11-8.41 |
|             | 6         | 36.0±.1264       | 25.4-26.5  | 3.37±.0669       | 3.19-4.77  | 8.27±.0129 | 8.21-8.33 |
| Overall     |           | 24.6±.1085       | 22.1-26.5  | 4.43±.0986       | 3.08-6.05  | 8.22±.0157 | 8.03-8.69 |

* Corresponding author: kashifanw@gmail.com
0030-9923/2022/0002-0949 $ 9.00/0
Copyright 2022 Zoological Society of Pakistan
**Supplementary Table II. Multivariate analysis of variance (MANOVA) applied on growth of carps.**

| Fortnight | Dependent variable | F-value | Multivariate tests of significance † | Significant univariate F-test * | Difference |
|-----------|--------------------|---------|--------------------------------------|---------------------------------|------------|
| Initial   | *L. rohita*        | .249    | p = 0.862                            | -                               | -          |
|           | *C. mrigala*       |         |                                      |                                 |            |
|           | *C. catla*         |         |                                      |                                 |            |
| 1         | *L. rohita*        | 7.321   | p = 0.001                            | *L. rohita* (p = .000)          | T1 < T2    |
|           | *C. mrigala*       |         |                                      |                                 |            |
|           | *C. catla*         |         |                                      |                                 |            |
| 2         | *L. rohita*        | 15.696  | p = 0.000                            | *L. rohita* (p = .000)          | T1 < T2    |
|           | *C. mrigala*       |         |                                      |                                 |            |
|           | *C. catla*         |         |                                      |                                 |            |
| 3         | *L. rohita*        | 26.402  | p = 0.000                            | *L. rohita* (p = .000)          | T1 < T2    |
|           | *C. mrigala*       |         |                                      |                                 |            |
|           | *C. catla*         |         |                                      |                                 |            |
| 4         | *L. rohita*        | 21.083  | p = 0.000                            | *L. rohita* (p = .000)          | T1 < T2    |
|           | *C. mrigala*       |         |                                      |                                 |            |
|           | *C. catla*         |         |                                      |                                 |            |
| 5         | *L. rohita*        | 32.382  | p = 0.000                            | *L. rohita* (p = .000)          | T1 < T2    |
|           | *C. mrigala*       |         |                                      |                                 |            |
|           | *C. catla*         |         |                                      |                                 |            |
| 6         | *L. rohita*        | 44.267  | p = 0.000                            | *L. rohita* (p = .000)          | T1 < T2    |
|           | *C. mrigala*       |         |                                      |                                 |            |
|           | *C. catla*         |         |                                      |                                 |            |

*, p<.05; †, Multivariate tests of significance include tests of Pillais, Wilks, Hotellings, and Roys. The value of Wilks’ Lambda was used as the F-ratio; Note: T1, Without green house and T2: With green house.