

M. PHIL (PHYSICAL EDUCATION) : SUMMER - 2018

Subject : Advanced Statistics & Computer Application to Physical Education

Day: Wednesday
Date : 11/04/2018

S-2018-0614

Time : 02.00PM TO 05.00PM
Max. Marks : 100

N.B.:

- 1) Attempt **ANY FOUR** questions from Q. 1 to Q. No. 6
- 2) Q. No. 7 is **COMPULSORY**.
- 3) Figures to the right indicate **FULL** marks.
- 4) All questions carry **EQUAL** marks.

| | | | | | | | | | | | | | | | | | | |
|------------------------|---|------------------------|---------|---------|---------|---------|---------|---------|---------|---------------|-----|-----|-----|-----|-----|-----|-----|------|
| Q.1 | Define the measures of Central tendency along with their merits, demerits and formulas for grouped and ungrouped data. | [20] | | | | | | | | | | | | | | | | |
| Q.2 | Discuss ANCOVA along with its condition of and steps. | [20] | | | | | | | | | | | | | | | | |
| Q.3 | Calculate the rank order correlation. <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr> <td style="width: 15%;">Playing ability</td> <td>4.4</td> <td>4.9</td> <td>5.0</td> <td>4.5</td> <td>5.1</td> <td>4.2</td> <td>3.5</td> </tr> <tr> <td>Height</td> <td>172</td> <td>178</td> <td>169</td> <td>155</td> <td>156</td> <td>163</td> <td>143</td> </tr> </table> | Playing ability | 4.4 | 4.9 | 5.0 | 4.5 | 5.1 | 4.2 | 3.5 | Height | 172 | 178 | 169 | 155 | 156 | 163 | 143 | [20] |
| Playing ability | 4.4 | 4.9 | 5.0 | 4.5 | 5.1 | 4.2 | 3.5 | | | | | | | | | | | |
| Height | 172 | 178 | 169 | 155 | 156 | 163 | 143 | | | | | | | | | | | |
| Q.4 | Define different measures of variability along with their characteristics and formulas. | [20] | | | | | | | | | | | | | | | | |
| Q.5 | The systolic blood pressures (in mm if mercury) of 50 chess players are given in the frequency. Find the value mean and median. <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr> <td style="width: 10%;">C.I.</td> <td>95-99</td> <td>100-104</td> <td>105-109</td> <td>110-114</td> <td>115-119</td> <td>120-124</td> <td>125-129</td> </tr> <tr> <td>f.</td> <td>3</td> <td>6</td> <td>8</td> <td>14</td> <td>11</td> <td>6</td> <td>2</td> </tr> </table> | C.I. | 95-99 | 100-104 | 105-109 | 110-114 | 115-119 | 120-124 | 125-129 | f. | 3 | 6 | 8 | 14 | 11 | 6 | 2 | [20] |
| C.I. | 95-99 | 100-104 | 105-109 | 110-114 | 115-119 | 120-124 | 125-129 | | | | | | | | | | | |
| f. | 3 | 6 | 8 | 14 | 11 | 6 | 2 | | | | | | | | | | | |
| Q.6 | Explain the need and application of computer in the field of physical education and sports in detail. | [20] | | | | | | | | | | | | | | | | |
| Q.7 | Write short notes on ANY FOUR of the following | [20] | | | | | | | | | | | | | | | | |
| | a) S.P.S.S. | | | | | | | | | | | | | | | | | |
| | b) M.S. Office | | | | | | | | | | | | | | | | | |
| | c) Combined Mean | | | | | | | | | | | | | | | | | |
| | d) t-ratio | | | | | | | | | | | | | | | | | |
| | e) Chi square | | | | | | | | | | | | | | | | | |
| | f) ANOVA | | | | | | | | | | | | | | | | | |

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