St. Philomena's College (Autonomous), Mysore

PG Department of Biochemistry

Question Bank {Revised Curriculum (LOCF) - 2020-22 Batch }

Second Year- Third Semester

| | Co | ourse little (Paper little): Methods in Research (AESC) QP Code -8 | 4331 |
|--------|------|--|-------|
| Sl. No | Unit | Questions | Marks |
| 1 | 1 | Define research and mention any two of its applications. | 2 |
| 2 | 1 | What are the functions of research? | 2 |
| 3 | 1 | Write the purpose of research. | 2 |
| 4 | 1 | Write the meaning of research and mention its significance | 2 |
| 5 | 1 | What is research? Write their functions. | 2 |
| 6 | 1 | Define research. Write their characteristics. | 2 |
| 7 | 1 | Mention the characteristic features of research. | 2 |
| 8 | 1 | What are the major types of research? Write their significance. | 2 |
| 9 | 1 | What is applied research? Give example. | 2 |
| 10 | 1 | What is pure research? Give example. | 2 |
| 11 | 1 | Differentiate between applied and pure research. | 2 |
| 12 | 1 | Name the factors which hinder research. | 2 |
| 13 | 1 | Give examples of categorical data | 2 |
| 14 | 1 | Write the significance of research. | 2 |
| 15 | 1 | Enlist any four Criteria of good Research | 2 |
| 16 | 1 | List the problems encountered by researchers. | 2 |
| 17 | 1 | What do you mean by Literature review? | 2 |
| 18 | 2 | What is a histogram? Give its significance | 2 |
| 19 | 2 | What are the methods by which the data are classified? | 2 |
| 20 | 2 | List out the types of frequency curves. | 2 |
| 21 | 2 | Define quantitative and qualitative data. | 2 |
| 22 | 2 | List out the types of bar chart. | 2 |
| 23 | 2 | Differentiate between sample and population | 2 |
| 24 | 2 | What is primary data? | 2 |
| 25 | 2 | What is secondary data? | 2 |
| 26 | 2 | Mention any two uses of diagrammatic representation of data. | 2 |
| 27 | 2 | What are the sources of secondary data? | 2 |
| 28 | 2 | What do you mean by statistics? | 2 |
| 29 | 2 | What do you mean by classification of data? | 2 |
| 30 | 2 | How will you represent data? | 2 |
| 31 | 2 | How is data classified? | 2 |
| 32 | 2 | What is histogram? | 2 |
| 33 | 2 | What are the types of data? Give an example. | 2 |

| 35 2 Give examples of qualitative and quantitative data 2 36 3 What are good measures of dispersion? 2 37 3 Define range 2 38 3 State the relation between correlation coefficient and regression coefficient. 2 40 3 Define median and range 2 41 3 Define correlation and regression coefficient. 2 42 3 What is correlation coefficient? 2 43 3 Find the median of the following data 1,2,2,5,7,8 2 44 3 What is regression? 2 45 3 What do you understand about standard error? 2 45 3 What do you understand about standard error? 2 46 3 What is the objective of correlation analysis? 2 47 3 Mention the types of regression line? 2 48 3 Define anithmetic mean? 2 50 3 Find the median of the following data: 1,2,2,5,7,8 2 51 | 2.1 | _ | | _ |
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|-----|---|--|---------------|
| 75 | 3 | What is an average? | $\frac{2}{2}$ |
| 76 | 3 | What is an average? Mention the merits of median. | $\frac{2}{2}$ |
| | | Mention the demerits of median. Mention the demerits of median. | $\frac{2}{2}$ |
| 77 | 3 | | 2 |
| 78 | 3 | Interpret positive correlation coefficient with an example. | |
| 79 | 3 | State any two merits of arithmetic mean. | 2 |
| 80 | 3 | What is the Median and Mode of the following Data: 3, 7, 4, 6, 10, 8,7,6,7,4,9,3,7 | 2 |
| 80 | 3 | What is range? Calculate the range for the following data: 20.33.41.29.50. | 2 |
| 81 | 3 | 38, 10, 15, 36, 11,24, | 2 |
| 82 | 3 | What is the relationship between variance and standard deviation? | 2 |
| 02 | 3 | If data show a normal distribution, what percent of the data will be within | 2 |
| 83 | 3 | mean ± 1 SD? | _ |
| 84 | 3 | Find the Range for the values 26, 25, 35, 27, 29, 29. | 2 |
| 85 | 3 | What is the Range for the following numbers 14, -12, 7, 0, -5, -8, 17, -11, 19 | 2 |
| | | Mean of a sample was 38.8 and standard deviation was 11.4. What is the | 2 |
| 86 | 3 | coefficient of variation? | |
| 87 | 3 | What is Standard error? How is it calculated? | 2 |
| 88 | 3 | Calculate the median of 21, 6, 9, 12, 2,16, 10, 15, 7,18, 5, 23, | 2 |
| 89 | 3 | Calculate the Mode for 5, 7, 15, 6, 21,7, 18, 10, 15, 13, 15, 16, 7, 9, 15, 10 | 2 |
| 90 | 4 | Expand ANOVA | 2 |
| 91 | 4 | State the basic assumptions in ANOVA. | 2 |
| 92 | 4 | Define probability. | 2 |
| 93 | 4 | What is probability mass function of binomial distribution? | 2 |
| 94 | 4 | List out the names of continuous distribution. | 2 |
| 95 | 4 | What is conditional probability? | 2 |
| 96 | 4 | Expand SPSS. | 2 |
| 97 | 4 | Enlist the properties of probability. | 2 |
| 98 | 4 | Write down the properties of probability. | 2 |
| 99 | 4 | What is probability density function of poison distribution? | 2 |
| 100 | 4 | What is probability density function of Binomial distribution? | 2 |
| 101 | 4 | What is probability? | 2 |
| 102 | 4 | Toss a coin for 12 times. What is the probability of getting exactly 7 heads? | 2 |
| 103 | 4 | Define conditional probability | 2 |
| 104 | 4 | Give the application of ANOVA technique. | 2 |
| 105 | 4 | When will you apply ANOVA technique? | 2 |
| 106 | 4 | What is th probability mass function of poison distribution? | 2 |
| 107 | 4 | What is ANOVA? When is it used? | 2 |
| 107 | 4 | Differentiate between one way and two way ANOVA. | 2 |
| 100 | 7 | Differentiate between one way and two way 1110 v11. | |
| 1 | 1 | Write the meaning, purpose and functions of research | 5 |
| 1 | 1 | Time are meaning, purpose and functions of research | |

| 2 | 1 | Give a note on functions and characters of research | 5 |
|----|---|---|---|
| 3 | 1 | | 5 |
| | 1 | Write the purpose and applications of research | 5 |
| 4 | 1 | Mention the characteristic features and major types of research | |
| 5 | 1 | Explain the major types of research and their significance | 5 |
| _ | 1 | What are the functions of research? Differentiate the major types of research | 5 |
| 6 | 1 | in science. | |
| 7 | 1 | Differentiate the major types of research with their significance and example | 5 |
| 0 | 1 | Mention the significance of research. Write a note on the factors which | 5 |
| 8 | 1 | hinder research. | |
| 9 | 1 | Explain the role of biostatistics in modern research. | 5 |
| 10 | 1 | Give the application of biostatistics in modern research. | 5 |
| | 4 | What are the functions of research? Differentiate the major types of research | 5 |
| 11 | 1 | in science. | |
| 10 | _ | Define the following terms a) mean b)nominal data c) ratio d) central | 5 |
| 12 | 2 | tendency e) variance | |
| 13 | 2 | List out the types of frequency curves. | 5 |
| 14 | 2 | List the different types of variables. | 5 |
| 15 | 2 | Write an essay on theoretical frequency distribution. | 5 |
| 16 | 2 | Explain bar and multiple bar charts with suitable biological data. | 5 |
| 17 | 2 | Describe in brief the methods of drawing pie diagram with an example. | 5 |
| 18 | 2 | Differentiate between histogram, pie chart & bar chart | 5 |
| 19 | 2 | Explain histogram and pie chart in detail. | 5 |
| 20 | 2 | Explain pie charts with suitable example | 5 |
| 21 | 2 | Explain the significance of diagrams and graphs in the presentation of data. | 5 |
| 22 | 2 | Give an account on graphical representation of data. | 5 |
| 23 | 2 | How to draw a pie chart? Explain with a an example | 5 |
| 24 | 2 | What are the different methods of presentation of data? | 5 |
| 25 | 2 | What do you mean by pie diagram? Draw and explain | 5 |
| 26 | 2 | What is a histogram? How it is drawn? | 5 |
| 27 | 2 | Write an essay on diagrammatic representation of data | 5 |
| 28 | 2 | Give an account on Classification and tabulation of data. | 5 |
| 29 | 2 | Comment on tabulation of statistical data. | 5 |
| 30 | 2 | | 5 |
| | 2 | Describe any two methods of data collection. | 5 |
| 31 | 1 | Describe in brief the purpose and importance of classification of data. | 5 |
| 32 | 2 | Differentiate between primary and secondary data with suitable examples. | |
| 33 | 2 | Discuss the methods of collection of data | 5 |
| 34 | 2 | Describe in brief the methods of classification of data. | 5 |
| 35 | 2 | Explain different methods of data classification. | 5 |
| 36 | 2 | Explain the nature and scope of statistical methods and their limitations. | 5 |
| 37 | 2 | Give an account of collection of data | 5 |
| 38 | 2 | What is census? Explain in detail | 5 |

| 39 | 2 | Write note on classification of data. | 5 |
|----|---|---|---|
| 40 | 2 | Explain different methods of data collection. | 5 |
| 41 | 2 | Explain the advantages of sampling over census. | 5 |
| 42 | 2 | Give an account of source of errors in sample surveys and the methods of controlling the same. | 5 |
| 42 | | Differentiate between Primary and secondary data. What are the sources of | 5 |
| 43 | 2 | secondary data? | 3 |
| 44 | 2 | What is the difference between Histogram and Bar diagram? Explain | 5 |
| 45 | 2 | What is Normal distribution curve? What are its properties? | 5 |
| 46 | 3 | Calculate the modal value if the yield (tonnes/ha) of paddy from different fields are 6.7, 6.0, 4.9, 6.0, 5.8, 6.2, 6.0, 6.3, 4.8, 6.0, 5.7 | 5 |
| 47 | 3 | Define range, mean, mode and standard deviation. | 5 |
| 48 | 3 | Define standard error and bring out its utility. | 5 |
| 49 | 3 | explain the following terms a) frequency b) cumulative frequency | 5 |
| 50 | 3 | Explain the merits and demerits of median. | 5 |
| 51 | 3 | Find the mean of the following data: 16, 18, 19, 21, 23, 23, 27, 29, 29, 35 | 5 |
| 52 | 3 | Find the mean of the following data: 9, 7, 11, 13, 2, 4, 5 | 5 |
| 53 | 3 | Find the mode of the following data: 0, 3, 2, 1, 3, 5, 4, 3, 42, 1, 2, 0 | 5 |
| 54 | 3 | Find the mode of the following data: 1, 7, 2, 4, 5, 9, 8, 3 | 5 |
| 55 | 3 | Find the mode of the following data: 12, 8, 4, 8, 1, 8, 9, 11, 9, 10, 12, 8 | 5 |
| 56 | 3 | Find the mode of the following data: 15, 22, 17, 19, 22, 17, 29, 24, 17, 15 | 5 |
| 57 | 3 | Give an account on measures of central tendency. | 5 |
| 58 | 3 | Give an account on standard error Vs standard deviation | 5 |
| | | Give the relation between mean, median and mode. Enlist the merit and | 5 |
| 59 | 3 | demerits mode and median. | |
| 60 | 3 | The mean of 8, 11, 6, 14, x and 13 is 66. Find the value of the observation x. | 5 |
| 61 | 3 | What are good measures of dispersion? Explain | 5 |
| 62 | 3 | What are the advantages and disadvantages of mode? Explain. | 5 |
| 63 | 3 | What are the various types of measure of dispersion? | 5 |
| 64 | 3 | Write briefly on applications of standard deviation | 5 |
| 65 | 3 | Write briefly on concepts of standard deviation | 5 |
| 66 | 3 | Write short note on scatter diagram. | 5 |
| 67 | 3 | Explain in detail rank test. | 5 |
| 68 | 3 | Explain the concept of regression. State the equations of two regression lines | 5 |
| | | Explain the term 'regression' and point out why do we have generally two | 5 |
| 69 | 3 | regression lines? | |
| 70 | 3 | What are the merits and demerits of rank correlation? Explain | 5 |
| | | What do you mean by correlation? Distinguish between positive, negative | 5 |
| 71 | 3 | and zero correlation? | |
| 72 | 3 | What is correlation? Explain its different types with illustrations. | 5 |
| 73 | 3 | Write a short note on regression coefficient. | 5 |

| 74 | 3 | Write briefly on regression | 5 |
|-----|---|---|---|
| 75 | 3 | Write short note on correlation coefficient | 5 |
| | | For the following numbers find Q1, Q3 and median 12, 2, 15, 6, 7, 19, 1, 5, | 5 |
| 76 | 3 | 18, 9, 27. | |
| 77 | 3 | What are the measures of central tendency? Explain | 5 |
| | | For the following numbers calculate the 50 th percentile | 5 |
| 78 | 3 | 2,3,5,6,8,10,12,15,18,20 | |
| 79 | 3 | Calculate Mean and SD of 2, 5, 3, 6, 4. | 5 |
| 80 | 3 | Draw a scatter diagram which shows correlation coefficient of -1 and zero | 5 |
| | | For the following numbers calculate the 50 th percentile | 5 |
| 81 | 3 | 12,13,15,16,18,20,22,25,28,30 | |
| 82 | 3 | Calculate mean and standard deviation for the following data: 21, 6, 9, 12, 2,16, 10, 15, 7,18, 5, 23 | 5 |
| 83 | 3 | Calculate Mean and SD of 3, 6, 7, 6, 4 | 5 |
| 84 | 4 | Define ANOVA. Discuss the major assumptions of ANOVA. | 5 |
| | | Define normal distribution. Write down the characteristics of normal | 5 |
| 85 | 4 | distribution. | |
| 86 | 4 | Discuss the properties of normal distribution curve. | 5 |
| 87 | 4 | Explain ANOVA. | 5 |
| 88 | 4 | Explain one way ANOVA with an example. | 5 |
| 89 | 4 | Explain binomial distribution. | 5 |
| 90 | 4 | Explain in detail about probability theory and their distribution | 5 |
| 91 | 4 | Explain level of significance and degrees of freedom. | 5 |
| 92 | 4 | Explain mathematical and classical definitions of probability | 5 |
| 93 | 4 | Explain one-way ANOVA | 5 |
| 94 | 4 | Explain probability | 5 |
| 95 | 4 | Explain probability with suitable example. | 5 |
| 96 | 4 | Explain the ANOVA for one-way classification | 5 |
| 97 | 4 | Explain the general format of ANOVA table. | 5 |
| 98 | 4 | Give an account on binomial distribution | 5 |
| | | State the probability distribution of poison distribution. Also state its | 5 |
| 99 | 4 | properties. | |
| 100 | 4 | Toss a coin for 12 times. What is the probability of getting exactly 7 heads? | 5 |
| 101 | 4 | What are the problems for which the tests of significance are used? | 5 |
| 102 | 4 | What are the various steps in tests of significance includes? | 5 |
| 103 | 4 | What do you mean by test of significance and testing of hypothesis? | 5 |
| | | What do you understand by probability? Describe in brief the additional rule | 5 |
| 104 | 4 | of probability and multiplication rule of probability? | |
| 105 | 4 | What is conditional probability? Explain | 5 |
| 106 | 4 | When do we use ANOVA one-way testes and what are the assumptions? | 5 |
| 107 | 4 | Where Analysis of Variance (ANOVA) is used? Explain with suitable | 5 |

| | | example. | | | | | | | | | | | |
|-----|---|---|----|--|--|--|--|--|--|--|--|--|--|
| 108 | 4 | Write a note on binomial distribution and its application | 5 | | | | | | | | | | |
| 109 | 4 | Write an account on ANOVA | | | | | | | | | | | |
| 110 | 4 | Write down the important properties of normal distribution. | 5 | | | | | | | | | | |
| 111 | 4 | Write short note on different types of ANOVA. | 5 | | | | | | | | | | |
| 112 | 4 | Write short note on normal distribution. | 5 | | | | | | | | | | |
| 113 | 4 | Write short note on one way ANOVA | 5 | | | | | | | | | | |
| 114 | 4 | Write short note on two way ANOVA | 5 | | | | | | | | | | |
| | | What is normal distribution? What are the properties of normal distribution | 5 | | | | | | | | | | |
| 115 | 4 | curve? | | | | | | | | | | | |
| 116 | 4 | What are degrees of freedom? What is the degrees of freedom when n=7 | 5 | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | Explain in detail the salient features, function, application and purpose of | 10 | | | | | | | | | | |
| 1 | 1 | research | | | | | | | | | | | |
| 2 | 1 | Give a detailed account on the major types of research and their significance | 10 | | | | | | | | | | |
| | | Explain the significance of research. Write a note on the factors which | 10 | | | | | | | | | | |
| 3 | 1 | hinders research | 10 | | | | | | | | | | |
| 4 | 1 | Explain the characteristic features and methods involved in research? | 10 | | | | | | | | | | |
| 5 | 1 | Explain the characteristic features and methods involved in research? | 10 | | | | | | | | | | |
| 6 | 2 | Explain different methods of data collection. | 10 | | | | | | | | | | |
| 7 | 2 | Discuss the methods of collection of data | 10 | | | | | | | | | | |
| 8 | 2 | Explain the different graphical methods to represent data. | 10 | | | | | | | | | | |
| 9 | 2 | What are the different methods of presentation of data? Explain in detail | 10 | | | | | | | | | | |
| 10 | 2 | Write a note on Box and Whisker plot. | 10 | | | | | | | | | | |
| 11 | 3 | In an experiment observed that the number of women of age 40-44 years in different categories of waist hip ratio(WHR) recorded in the following table: Frequency distribution of WHR which recorded in 60 women of age 40-44 years. For those construct a) Frequency curve b) less than and more than cumulative frequency curve WHR 0.70-0.80 0.80-0.90 0.90-1.00 1.00-1.10 1.10-1.20 | 10 | | | | | | | | | | |
| | | No of 5 13 22 10 7 | | | | | | | | | | | |
| | | women | | | | | | | | | | | |
| 12 | 3 | Explain the measures of dispersion with merits and demerits. | 10 | | | | | | | | | | |
| 13 | 3 | Describe various levels of/scales of measurements. | 10 | | | | | | | | | | |
| | | How is correlation applied to find the intensity of relationship between two | 10 | | | | | | | | | | |
| 14 | 3 | or more variables? | | | | | | | | | | | |
| | 2 | For the following numbers find Q1, Q3, mean and median 12, 2, 15, 6, 7, 19, | 10 | | | | | | | | | | |
| 15 | 3 | 1, 5, 18, 9, 27. | | | | | | | | | | | |
| 16 | 3 | Calculate the mean, median and standard deviation for the data relating of soil sample. pH of soil sample: 6.7, 6.8, 6.9, 6.9, 7.0, 7.3, 7.4, 7.4, 7.5 | 10 | | | | | | | | | | |

| 17 | 3 | The incubation period of small pox recorded on 10 patients is Given below. Calculate the variance and coefficient of variance. Incubation period: 10, 24, 13, 11,15,10,9,12,10, 16 | | | | | | | | | | |
|----|---|--|-----------------------|------------------|------------------------------|------------------|---------------|----------------|---------|-------------------|----|--|
| 18 | 3 | Find mean, median | | of the | data : 3 | 6,28, | 11,5,4 | 1,86,3 | & 8 | | 10 | |
| 19 | 3 | | i's rank (40 9 9 24 6 | 1 6 | tion co 16 65 5 20 | 24 | ent fo | r the fo 57 | llowir | ng data: | 10 | |
| 20 | 3 | A student carried of Vs instrument response Concentration (mM Instrument response | onse. Cal | | | | 's cori | relation | | | 10 | |
| 21 | 3 | | n's Rank | Corre | elation, | | | | he stud | | 10 | |
| 22 | 3 | | on si 0-20 20 | | | | 50 5 | | | node for the | 10 | |
| 23 | 3 | The daily wages of the mean daily wage Daily wages No. of workers | _ | 150- | 200 | 200- 1′ | 250 | 250- | 300 | 300- 350 15 | 10 | |
| 24 | 3 | Find mean , median tomato plants No. of tomato per plant no of plant | es | de for 1 2 5 7 | the fol | lowin 4 17 | g data 5 22 | 6 15 | 7 | 8 | 10 | |

| | | The table show ten plates. Cal | | | | | | | | _ | | _ | own on | |
|----|---|---|--------------------|------------|--------------|-------------------|--------------|-----------------|------------|-------------------|--------------|-------|---------|----|
| 25 | 3 | Plate No | | 2 | 3 | | 5 | 6 | 7 | 8 | 9 | | 10 | 10 |
| 23 | 3 | No of colonies | 75 9 | 5 | 60 | 80 9 |)5 | 110 | 115 | 130 | 140 | 0 | 160 | 10 |
| 26 | 3 | A survey of p data. compute No of chil no of fam | the a) | | | | | ediar 4 | 5 (s) | ode 6 | | | | 10 |
| 27 | 3 | Calculate the data: blood (mg/d no of | urea | | 20 8 | 30 12 | 40 20 | 50 10 | viation 60 | 70 4 | the fo | llow | ving | 10 |
| 28 | 3 | Calculate the mean & mode No of petripl No of organi observed | of give | en b | | | | | 0 50 |) (| edian, 60 80 | ari | thmetic | 10 |
| 29 | 3 | Calculate the Rupees Frequency | mean, 10 15 | 20 35 | | 100 prode f | or the 50 96 | 6 | 60 | data 70 192 | 80 256 | | | 10 |
| 30 | 3 | The following the a)Average Marks in bio | b)Med statistic | lian | | | | 20 12 | 30 26 | atistic 40 | 50 40 | S, S | o find | 10 |
| 31 | 3 | From the follocalculate the marks No of studen | Range, | | | | and r | | | 60 6 | 70 4 | clas | ss. | 10 |
| 32 | 3 | Find the mear X f | n, medi 1 7 | ian v 3 | salue a 5 20 | and std 6 4 | 8 | ation 8 2 | from | the fol | lowing | g dat | ta: | 10 |

| | | | | | | | anc | d std | dev | iation | from | the d | ata of yield of | | | |
|----|----------|---|---|-------|----------|----------|-------|--------|--------------------|---------|--------|--------|-----------------|------|--|----|
| | | | mango trees in an orchard. yield of below below below below 80 below 100 | | elow 100 | | | | | | | | | | | |
| 33 | 3 | | trees(kg) | | 20 | 40 | | 60 | | 0010 | | | | 10 | | |
| | | | No. of | | 8 | 20 | | 50 | | 70 | | 8 | 0 | | | |
| | | | trees | | | | | | | | | | | | | |
| | | Find t | the missi | ng fr | requenc | y, medi | an a | nd m | ode | for t | he fo | llowin | g distribution | | | |
| | | if the mean is 12.9 | | | | | | | | | | | | | | |
| 34 | 3 | | Class | | 0-5 | 5-10 | 10 | 0-15 | | 15-20 | | 20-25 | | 10 | | |
| | | | Interval | | | | | | | | | | | | | |
| | | | Frequenc | су | 3 | ? | 8 | | | 5 | | 4 | | | | |
| | | Distri | bution o | of a | certain | n disea | se r | epor | ted | durin | g th | e yea | r of 2015 in | | | |
| | | Karna | ataka stat | e as | | | | | _ | | _ | | de c) Range | | | |
| 35 | 3 | 3 | 3 | | Age | | | 15-24 | | 5-29 | 3 | 30-34 | 3 | 5-39 | | 10 |
| | | N | lo. of cas | ses | 3 | 10 |] | 12 | | 8 | | 7 | | | | |
| | | Data | on time s | ince | transnl | antation | in v | vear | for | 50 fe | male | suhie | cts is given in | | | |
| | | Data on time since transplantation in years for 50 female subjects is given in the following table: calculate a) Frequency b) coefficient of variation | | | | | | | | | | | | | | |
| | 3 | year | | 4-6 | | | _ ^ | 0-12 | _ | 2-14 | | 4-16 | | | | |
| 36 | | | ` / | | | | | | | | | | | 10 | | |
| | | No | of | 3 | 6 | 16 | 14 | 4 | 7 | | 4 | | | | | |
| | | | ale (f) | | | | | - | | | | | | | | |
| | | In or | der to c | omp | are the | effecti | vene | ess o | f tv | vo su | nburr | lotic | ons, a random | | | |
| | | | | | | | | | | | | | he left side of | | | |
| | | their faces an lotion B to the right side. After the subjects have sat in the sun | | | | | | | | | | | | | | |
| | | watching a three –hour tennis match, the degree of sunburn is measured on a scale. Apply signed rank test; determine whether the data support the claim | | | | | | | | | | | | | | |
| 37 | 3 | | | | | | | | wne | ther ti | ne da | ta sup | port the claim | 10 | | |
| | | uiat ti | ne two lo subject | uons | 1 | 2 | 3 | | 1 | 5 | 6 | 7 | | | | |
| | | | lotion A | | 48 | | 42 | - | * 59 | 74 | 35 | 84 | | | | |
| | | | lotion B | | 46 | 49 | 48 | | 53 | 43 | 32 | 53 | ┥ | | | |
| | <u> </u> | Expla | | | | | | | | | | | ample. Name | | | |
| 38 | 4 | | operties. | F | | | | | | | | | F | 10 | | |
| 20 | 1 | | | plica | ations o | f binom | ial c | listri | buti | on wi | th sui | table | example. | 10 | | |
| 39 | 4 | | e its pro | | | | | | | | | | _ | 10 | | |
| 40 | 4 | Explain the applications of poison distribution with suitable example. Name its properties | | | | | | | | | | 10 | | | | |
| 41 | 4 | - | an accor | unt o | n ANO | VA. | | | | | | | | 10 | | |
| 42 | 4 | | an accou | | | | OV | A | | | | | | 10 | | |

| | Model Question Paper | |
|------------|---|------------|
| | St. Philomena's College (Autonomous), Mysore | |
| | III Semester M.Sc-Final Examination | |
| | Subject: Biochemistry Title: Methods in Passayah (AESC) | |
| Tim | Title: Methods in Research (AESC) e: 3 Hours Max | Marks: 70 |
| 1 1111 | PART-A | Wiaiks: 70 |
| Ans | wer any TEN of the following: | 10x2=20 |
| 1. | Define research and mention any two of its applications. | 2 |
| 2. | Name the factors which hinder research. | 2 |
| 3. | What do you mean by Literature review? | 2 |
| 4. | What are the sources of secondary data? | 2 |
| 5. | What are good measures of dispersion? | 2 |
| 6. | Define median and range. | 2 |
| 7. | Find the median of the following series: 75,60,55,80,45,70,40,85 | 2 |
| 8. | Give any two applications of Pearson distribution. | 2 |
| 9. | State any two merits of arithmetic mean. | 2 |
| 10. | Define probability. | 2 |
| 11. | What is conditional probability? | 2 |
| 12. | Toss a coin for 12 times. What is the probability of getting exactly 7 heads? | 2 |
| | PART-B | • |
| Ans | wer any SIX questions: | 6x5=30 |
| 13. | Explain the major types of research and their significance | 5 |
| 14. | What are the functions of research? Differentiate the major types of research in | 5 |
| | science. | 3 |
| 15. | Explain the following terms a) nominal data b) central tendency c) variance | 5 |
| 16. | Give an account on Classification and tabulation of data. | 5 |
| 17. | Find the mean of the following data: 16, 18, 19, 21, 23, 23, 27, 29, 29, 35 | 5 |
| 18. | Give an account on standard error Vs standard deviation | 5 |
| 19. | Define normal distribution. Write down the characteristics of normal distribution. | 5 |
| 20. | Explain level of significance and degrees of freedom | 5 |
| | PART-C | |
| | nswer any TWO questions: | 2x10=20 |
| 21. | The IA marks and Exam marks of a student in six papers is given below. Using the Spearman's Rank Correlation, find out whether the students' IA marks and Exam marks correlate. | |
| | Paper 1 2 3 4 5 6 | 10 |
| | IA marks 70 64 60 65 50 55 | |
| | Exam Marks 75 65 70 80 60 69 | |
| 22. | Explain the different graphical methods to represent data. | 10 |
| 23. | Give an account on SPSS and ANOVA | 10 |
