**Section: MCQ**

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| **Q1:** | Which of the following data types cannot be used to store the number 30125? | **Mark (1)** |
|  | Integer | |
|  | Double | |
|  | Byte | |
|  | Long | |

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| **Q2:** | Which of the following cannot be used as a variable name in VBA?  i) $money  ii) This\_is\_the\_number\_of\_customers\_in\_the\_shop\_today  iii) Attendance records | **Mark (1)** |
|  | i and iii | |
|  | i, ii and iii | |
|  | i and ii | |
|  | ii and iii | |

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| **Q3:** | Based on the code below, which of the following sets of conditions will result in the variable "Graduate" being false?  C:\Users\17046589\AppData\Roaming\Republic Poly\eQuest\_assessmentimages\_assessmentimg_1567816593_746212902.gif  i) StudyPoints = 20, SocialPoints = 20  ii) StudyPoints = 0, SocialPoints = 80  iii) StudyPoints = 80, SocialPoints = 0 | **Mark (1)** |
|  | i and iii | |
|  | i, ii and iii | |
|  | i and ii | |
|  | ii and iii | |

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| **Q4:** | What is the value stored in the variable "box" after the following "For... Next" loop has finished running?  C:\Users\17046589\AppData\Roaming\Republic Poly\eQuest\_assessmentimages\_assessmentimg_-1713695064_-239433531.gif | **Mark (1)** |
|  | 10 | |
|  | 12 | |
|  | 1 | |
|  | 11 | |

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| **Q5:** | Which of the following function declarations is correct for the subroutine shown below?  C:\Users\17046589\AppData\Roaming\Republic Poly\eQuest\_assessmentimages\_assessmentimg_1528652359_1739681078.gif | **Mark (1)** |
|  | Function school(s as String, t as Byte) as Boolean | |
|  | Function school(student as Byte, teacher as String) as Boolean | |
|  | Function classroom(s as String, t as Byte) as Boolean | |
|  | Function classroom(teacher as String, student as Byte) as Boolean | |

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| **Q6:** | What is the value stored in Cell A1 after the following "Select Case" statement has finished running?  C:\Users\17046589\AppData\Roaming\Republic Poly\eQuest\_assessmentimages\_assessmentimg_280833181_217423887.gif | **Mark (1)** |
|  | Location | |
|  | None of the above | |
|  | Jurong | |
|  | West | |

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| **Q7:** | What is the value stored in the variable "i" after the following "Do While" loop has finished running?  C:\Users\17046589\AppData\Roaming\Republic Poly\eQuest\_assessmentimages\_assessmentimg_203194288_-71466447.gif | **Mark (1)** |
|  | 1 | |
|  | None of the above | |
|  | 0 | |
|  | 2 | |

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| **Q8:** | Which of the following Excel charts is most suited to be used to show seasonal trends in the demand for winter clothes? | **Mark (1)** |
|  | Pie chart  C:\Users\17046589\AppData\Roaming\Republic Poly\eQuest\_assessmentimages\_assessmentimg_927037180_566100941.gif | |
|  | Sunburst chart  C:\Users\17046589\AppData\Roaming\Republic Poly\eQuest\_assessmentimages\_assessmentimg_-1020368876_1044321387.gif | |
|  | Radar chart  C:\Users\17046589\AppData\Roaming\Republic Poly\eQuest\_assessmentimages\_assessmentimg_-567802125_-128076116.gif | |
|  | Bar chart  C:\Users\17046589\AppData\Roaming\Republic Poly\eQuest\_assessmentimages\_assessmentimg_-1651209893_1067120789.gif | |

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| **Q9:** | The relationship between Eric's jogging speed and the distance he jogged is as such:  "The faster he runs, the shorter is the distance ran."  Which of the following correlation coefficients r describes this relationship? | **Mark (1)** |
|  | r = 0.9 | |
|  | r = 0 | |
|  | r = -0.2 | |
|  | r = 1.5 | |

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| **Q10:** | Which of the following scatter plots is likely to have correlation coefficient r = 0.001? | **Mark (1)** |
|  | C:\Users\17046589\AppData\Roaming\Republic Poly\eQuest\_assessmentimages\_assessmentimg_534127006_-1595034848.gif | |
|  | C:\Users\17046589\AppData\Roaming\Republic Poly\eQuest\_assessmentimages\_assessmentimg_-640524712_-1848223826.gif | |
|  | C:\Users\17046589\AppData\Roaming\Republic Poly\eQuest\_assessmentimages\_assessmentimg_550166702_165966060.gif | |
|  | C:\Users\17046589\AppData\Roaming\Republic Poly\eQuest\_assessmentimages\_assessmentimg_1634603518_1950978208.gif | |

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**Section: Qn 1**

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| **Q11:** | Write a subroutine named "**Happy**" that will display a message box.  The message should read "**Happy New Year**" if the value in Cell A1 is either 0, 1 or 2.  The message should read "**Happy Deepavali**" if the value in Cell A1 is either 3 or 4.  If Cell A1 contains any other values, then display the message "**Unknown holiday**". | **Mark (5)** |
|  |  | |
|  | Word Count: 48 | Max Words: 100 |

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**Section: Qn 2**

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| **Q12:** | Study the subroutine "Main" as shown below.  C:\Users\17046589\AppData\Roaming\Republic Poly\eQuest\_assessmentimages\_assessmentimg_578066933_-720030899.gif  Write a function named "**BMI**" that will return the value of the body-mass index to the calling routine "Main". Body-mass index is calculated using the following formula:  Body-mass index = Weight/(Height x Height) | **Mark (4)** |
|  |  | |
|  | Word Count: 16 | Max Words: 100 |

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**Section: Qn 3**

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| **Q13:** | Write a "For... Next" loop to fill in the cells in column A with the row number of the cell, from row 1 to row 32760. | **Mark (4)** |
|  |  | |
|  | Word Count: 20 | Max Words: 100 |

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**Section: Qn 4**

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| **Q14:** | Fill in the blanks in the code below using the list of helping words given, so that the word "PBL" is written into Cell C5 after the code is run.  C:\Users\17046589\AppData\Roaming\Republic Poly\eQuest\_assessmentimages\_assessmentimg_-53237370_1632355628.gif  [Helping words: PBL, Pedagogy, Polytechnic, Republic, String, 5]  Dim Republic, as  Dim as Integer  Pedagogy = ""  Polytechnic =  = "C"  Range (Republic & Polytechnic).Value = Pedagogy | **Mark (6)** |

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**Section: Qn 5**

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| **Q15:** | Rewrite the following If-Else block into a Select Case block so that the same message will be displayed in the message box.  C:\Users\17046589\AppData\Roaming\Republic Poly\eQuest\_assessmentimages\_assessmentimg_-2118705826_-1938719770.gif | **Mark (6)** |
|  |  | |
|  | Word Count: 32 | Max Words: 100 |

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**Section: Qn 6**

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| **Q16:** | Rewrite the following "For... Next" loop into a "Do While" loop so that the variable **j** that is displayed in the message box is the same for both the "For... Next" loop and the "Do While" loop.  C:\Users\17046589\AppData\Roaming\Republic Poly\eQuest\_assessmentimages\_assessmentimg_263848455_-1987744994.gif | **Mark (6)** |
|  |  | |
|  | Word Count: 23 | Max Words: 100 |

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**Section: Qn 7**

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| **Q17:** | The table below shows the ice-cream eating, tv-watching and video game-playing habits of 20 teenagers. Using the Analysis ToolPak in Excel , conduct a correlation analysis and answer the following questions.   |  |  |  |  | | --- | --- | --- | --- | | ID | No. of ice cream eaten per day | TV watching (Hours per week) | Video game watching (Hours per week) | | 1 | 2 | 39 | 41 | | 2 | 1 | 42 | 41 | | 3 | 2 | 63 | 56 | | 4 | 2 | 39 | 51 | | 5 | 2 | 45 | 31 | | 6 | 2 | 40 | 41 | | 7 | 1 | 47 | 51 | | 8 | 2 | 44 | 48 | | 9 | 1 | 44 | 51 | | 10 | 1 | 53 | 61 | | 11 | 1 | 39 | 36 | | 12 | 1 | 39 | 46 | | 13 | 1 | 47 | 61 | | 14 | 3 | 42 | 56 | | 15 | 3 | 26 | 42 | | 16 | 2 | 36 | 36 | | 17 | 1 | 44 | 41 | | 18 | 1 | 44 | 36 | | 19 | 2 | 44 | 51 | | 20 | 3 | 61 | 61 |   a) What is the correlation coefficient between  i) Ice-cream eating and TV-watching (1 mark) ii) Ice-cream eating and video game-playing (1 mark) iii) TV-watching and video game-playing (1 mark)  b) What conclusion can you draw from the result? (1 mark) | **Mark (4)** |
|  |  | |
|  | Word Count: 60 | Max Words: 100 |

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**Section: Qn 8a**

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| **Q18:** | The pie charts below show a breakdown of the mothers' age, ethnic group and education level when they gave birth to their first child. List 2 insights that you can obtain from these 3 charts.  C:\Users\17046589\AppData\Roaming\Republic Poly\eQuest\_assessmentimages\_assessmentimg_660099607_1805518071.gifC:\Users\17046589\AppData\Roaming\Republic Poly\eQuest\_assessmentimages\_assessmentimg_660099607_1923541329.gifC:\Users\17046589\AppData\Roaming\Republic Poly\eQuest\_assessmentimages\_assessmentimg_660099607_-537044541.gif | **Mark (2)** |
|  |  | |
|  | Word Count: 13 | Max Words: 100 |

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**Section: Qn 8b**

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| **Q19:** | The table below contains data of women when they gave birth to their first child. Analyze the data in the table using Excel and answer the following questions.   |  |  |  | | --- | --- | --- | | Year | Average age of mother | No. of births | | 2015 | 22 | 2557 | | 2015 | 27 | 3733 | | 2015 | 32 | 5703 | | 2015 | 37 | 9102 | | 2015 | 42 | 1675 | | 2014 | 22 | 2120 | | 2014 | 27 | 7870 | | 2014 | 32 | 8092 | | 2014 | 37 | 5178 | | 2014 | 42 | 1024 | | 2013 | 22 | 2191 | | 2013 | 27 | 7543 | | 2013 | 32 | 9502 | | 2013 | 37 | 4946 | | 2013 | 42 | 991 | | 2012 | 22 | 2533 | | 2012 | 27 | 8250 | | 2012 | 32 | 10411 | | 2012 | 37 | 5172 | | 2012 | 42 | 985 | | 2011 | 22 | 2465 | | 2011 | 27 | 18107 | | 2011 | 32 | 9436 | | 2011 | 37 | 4957 | | 2011 | 42 | 907 |   a) Is the **birth rate** increasing or decreasing over the years? Support your answer with numbers derived from the data given. (2 marks)  b) From the data given, are you able to derive the number of women who had given birth in 2015? If not, what additional data do you need in order to help you derive this number? (1 mark) | **Mark (3)** |
|  |  | |
|  | Word Count: 88 | Max Words: 100 |

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