

Examiner: P.Jackson Moderator: J Pancham Time: 16000 - 17000

Marks 40

## Question 2 [35 Marks] - Scenario-Based Question

AA Playroom has a holiday camp for kids between the ages of 2 to 12 years of age. They charge parents a fee per day based on the number of hours the child has been at the holiday camp. They require a C# ASP.NET MVC application that will calculate the fees due per day for each child. Write a program that will accept the parent name, parent contact number, child's name, child's age and time in. Once the child leaves the camp, then the time out value must be automatically generated using the DateTime function. Determine the number of hours charged for this child, then the total fees due per day must be calculated and displayed. If the child spent more than 4 hours per day, then the fee is R100 per hour, otherwise its 160 per hour. The total fees including vat must be rendered on the view.

Write C# code to accomplish the following sequence of tasks;

- 1.1.a model called CampFeesModel with the appropriate properties.
- 1.2.a method called **calcCampFee()** to calculate the total fees due by the parent for each day before vat is calculated.
- 1.3.a method called calcVat() to calculate the vat on the total fees.
- 1.4.a method called calcTotalDue() to calculate the total amount to be paid by the parent after vat has been included.
- 1.5.code the controller called **Camp**Controller in order to demonstrate how the controller facilitates inputs from the view.
- 1.6. Write the HTML and RAZOR code to create the view called **DisplayCampFees** for this app, see **Fig1** below.

dre	DisplayCampFees
	Parent Name:
	Parent Contact Number:
	Child Name:
	Child Age:
	Start Time: 09:00:00
	Calculate
4	End Time: 12:00:00
600	Total Due: 517.5

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Fig 1 - A view showing Capturing and Calculation of the Camp Fee

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