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| **Examination question paper:** | **May 2025** |

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| **Module code:**  **Component number:** | **BM7048**  **002** |
| **Module title:** | **Cancer Immunotherapy** |
| **Module leader:** | **Prof. Jameel M. Inal** |

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| **Date:** | **May 2025** |
| **Duration:** | **1 Hour 30 Minutes** |

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| **Exam type:** | **Seen, Closed** |
| **Materials supplied:** | **None** |
| **Materials permitted:** | **None** |
| **Warning:** | **Candidates are warned that possession of unauthorised materials in an examination is a serious assessment offence.** |

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| **Instructions to candidates:** | **Candidates will be required to answer all THREE questions** |
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|  | **Do not turn page over until instructed** |

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**Answer all THREE questions**

**Q1. Critically assess the role of dexosomes (dendritic cell-derived exosomes) as cancer vaccines.**

**20 marks**

**Q2. Briefly set the scene for how a tumour controls its surroundings, manipulating infiltrating cells. Outline some of the immune effector mechanisms and how re-targeting them may form the basis of cancer immunotherapies.**

**20 marks**

**Q3. Discuss the following statement:**

**‘*Vesicle populations derived from tumours mimic the very same immunomodulatory activities that parent tumour cells have*.’**

**20 marks**