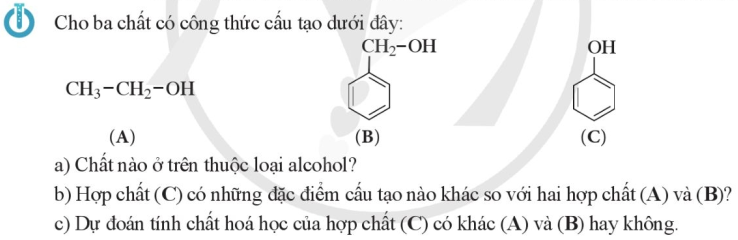
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| *Họ và tên: ....................................................*  *Lớp: .............................................................* | PHIẾU GHI BÀI HÓA HỌC 11 CÁNH DIỀU  **Bài 17: PHENOL** |

**MỞ ĐẦU**

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**I. KHÁI NIỆM**

**1) Khái niệm**

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**2) Phân loại**

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**II. TÍNH CHẤT VẬT LÍ**

Trạng thái: .................. Màu sắc: ..................... tnc: .............. Tính bền: .........................................................

Tính tan: ..........................................................................................................................................................

Tính độc: ..........................................................................................................................................................

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|  | Ảnh có chứa văn bản, Thịt, da  Mô tả được tạo tự động |
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**III. TÍNH CHẤT HÓA HỌC**

Nhận xét đặc điểm cấu tạo của phân tử phenol?

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Nhận xét về khả năng phản ứng của phenol?

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| Ảnh có chứa văn bản, Phông chữ, ảnh chụp màn hình  Mô tả được tạo tự động | ..................................................................................................................  ..................................................................................................................  ..................................................................................................................  ..................................................................................................................  ..................................................................................................................  .................................................................................................................. |

**1) Tính acid của phenol**

Nhận xét về độ mạnh tính acid của phenol? ...................................................................................................

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***a) Phản ứng với dung dịch NaOH***

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***b) Phản ứng với sodium carbonate***

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**2) Phản ứng thế nguyên tử H của vòng benzene**

***a) Phản ứng với nước bromine***

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| Ảnh có chứa văn bản, ảnh chụp màn hình, Phông chữ  Mô tả được tạo tự động | ................................................................  ................................................................  ................................................................  ................................................................  ................................................................  ................................................................  ................................................................ |

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| Ảnh có chứa văn bản, Phông chữ  Mô tả được tạo tự động | ..................................................................................................................  ..................................................................................................................  ..................................................................................................................  ..................................................................................................................  .................................................................................................................. |
| Ảnh có chứa văn bản, Phông chữ  Mô tả được tạo tự động | ..................................................................................................................  ..................................................................................................................  ..................................................................................................................  ..................................................................................................................  .................................................................................................................. |

***b) Phản ứng với dung dịch HNO3 đặc***

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**IV. ỨNG DỤNG VÀ ĐIỀU CHẾ**

**1) Ứng dụng**

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| Ảnh có chứa văn bản, Phông chữ  Mô tả được tạo tự động | ..................................................................................................................  ..................................................................................................................  ..................................................................................................................  ..................................................................................................................  .................................................................................................................. |

**2) Điều chế**

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