

**UNIVERSITI SAINS MALAYSIA**

**Peperiksaan Semester Pertama  
Sidang Akademik 1995/96**

**OKTOBER/NOVEMBER 1995**

**RDK 253 (NPM 051) - PENGURUSAN MUZIUM**

**Masa : ( 3 jam )**

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Sila pastikan bahawa kertas peperiksaan ini mengandungi **SATU** muka surat yang bercetak sebelum anda memulakan peperiksaan ini.

Jawab **EMPAT** Soalan Sahaja.

1. Sejauh mana pengurusan di muzium berubah di tahun-tahun kebelakangan ini?  
(25 markah)
2. Mengapa muzium memerlukan satu **misi bertulis**? Bagaimanakah misi tersebut boleh tercapai?  
(25 markah)
3. Apakah terdapat perbezaan menonjol di antara pengurusan dan kepimpinan? Mengikut hemat anda, apakah kualiti yang harus, ada pada seorang pengurus dan seorang pemimpin yang baik?  
(25 markah)
4. Apakah masalah paling besar kepada pihak pengurusan muzium: peruntukan yang tidak mencukupi atau kekurangan tenaga manusia terlatih? Bagaimanakah masalah yang anda kenal pasti ini dapat diatasi seberkesan mungkin?  
(25 markah)
5. Apakah sifat-sifat berkualiti yang harus ada pada seseorang Pengurus Muzium?  
(25 markah)
6. Bagaimanakah anda harus lakukan jika anda ditugaskan untuk memperbaiki sebuah muzium yang daif atau dikatakan separuh mati disebabkan berbagai masalah dalam pengurusan?  
(25 markah)

## Introduction

The present article is a continuation of our previous work on the synthesis of poly(ether ether ketone) (PEEK) and its composites with carbon fiber (CF) and glass fiber (GF).

## Materials

The materials used in this study were the same as those used in our previous work.<sup>1,2</sup> The PEEK was synthesized by the melt polycondensation of bisphenol A and terephthaloyldichloride (TC). The CF and GF were supplied by Nippon Carbon Co., Ltd.

## Methods

The PEEK/CF composites were prepared by the melt compounding method. The CF was cut into small pieces and mixed with the PEEK granules. The mixture was heated at 300°C for 1 h under nitrogen. The PEEK/GF composites were prepared by the same method.

## Results

The DSC thermograms of the PEEK/CF composites are shown in Figure 1. The melting temperature ( $T_m$ ) of the PEEK/CF composites decreased with increasing the weight fraction of the CF.

## Conclusion

The melting temperature of the PEEK/CF composites decreased with increasing the weight fraction of the CF. The decrease in the melting temperature may be due to the hindrance of the CF to the motion of the polymer chains.

## References

