

SOAL UJIAN TENGAH SEMESTER

Program Studi	: S1 Farmasi
Tahun Akademik	: Genap 2023 / 2024
Semester	: VI (enam) minat FSBA
Mata Kuliah	: Formulasi dan Teknologi Sediaan Kosmetik (FARF520)
Dosen	: apt. Trifonia Rosa Kurniasih, M.Biotech apt. Felicia Satya Christania, M.Farm.
Hari dan Tanggal	: Rabu, 24 April 2024
Waktu	: 10.00 – 11.40 WIB
Sifat Ujian	: <i>Closed book</i> / buku tertutup

Petunjuk Soal !

- Soal ujian berjumlah 10 soal isian.
- Kerjakan pada tempat yang sudah disediakan.
- Waktu mengerjakan 100 menit.

1. Jelaskan perbedaan antara sediaan kosmetik dan sediaan obat!
2. Sebutkan persyaratan yang harus dipenuhi dalam pembuatan sediaan kosmetik! (minimal 4).
3. Sebut dan jelaskan bagian-bagian yang terdapat pada lapisan kulit!
4. Apa dampak negatif yang diakibatkan oleh sintesis melanin dan bagaimana cara mengatasinya?

Bacalah artikel berikut! (soal 5 dan 6)

“SPENT COFFEE WASTE: A SUSTAINABLE SOURCE OF CLEANSING AGENT FOR A HIGH-PERFORMANCE MAKEUP REMOVER”



Cosmetic consumers' demand upon natural/eco-friendly and sustainable products are increasing. Those of cosmetic substances upcycled from agricultural industries are of significance in terms of availability and feasibility. Accordingly, spent coffee

grounds left over from processing of coffee products are revealed as a renewable source for cosmetics. Spent coffee oils were prepared by several methods. The fatty acid composition was determined as methyl ester derivatives by gas chromatography. The analyses gave comparative yields of extracts (8–16%) and fatty acids (78–94%). Palmitic and linoleic acids were the major fatty acid constituents followed by oleic and stearic acids. The oil was proved to be practical for cosmetics based on its physicochemical properties, with $95.05 \pm 3.05\%$ of makeup removal efficacy. Stable spent coffee oil removers were developed, among which that of 40% oil formulation was significantly better in removal efficacy than the 35% (90.59 ± 1.30 and $81.76 \pm 1.06\%$, $p < 0.01$). The spent coffee oil remover was safe and satisfied in 20 female volunteers.

The oil is evidenced as the sustainable cleansing agent for a high-performance makeup remover. Spent coffee oil is appointed as a promising source of high-value added products, i.e. cosmetics and personal care that the tendency for sustainable/naturally derived cosmetic ingredients is increasing. Successive management of coffee processing waste into a more profitable cosmetic product is highlighted.

Sumber artikel : Lourith, N., Xivivadh, K., Boonkong, P., & Kanlayavattanakul, M. (2022). Spent coffee waste: A sustainable source of cleansing agent for a high-performance makeup remover. *Sustainable Chemistry and Pharmacy*, 29. <https://doi.org/10.1016/j.scp.2022.100826>

5. Berdasarkan artikel di atas, jenis dan kategori kosmetik apa yang diformulasikan?
6. Bagaimana cara kerja kosmetik tersebut?
7. Sebutkan contoh dan jelaskan mekanisme aksi dari kelompok pelembap emolien dan esensial protein !
8. Sebutkan 3 fase pertumbuhan rambut dan 3 fungsi utama kuku !
9. Sebutkan 6 karakteristik kondisioner berkualitas !
10. Sebutkan 3 tahapan formulasi cat kuku !
