

**Manipal College of Pharmaceutical Sciences**  
**Manipal Academy of Higher Education, Manipal**  
**BPharm VIII Semester End Semester Examinations, July 2021**

**Online Examination**

**PCE-BP809ET Cosmetic Science**

Date: 12-07-2021

Duration: 2 hours

Max. Marks: 20

<b>Multiple Choice Questions</b>		<b>20 marks</b>
		<b>Mark</b>
1	One of the following is not a Cosmetic product <b>a) Protective- Boric Acid Powders</b> b) Decorative- Lipstick, Nail Polishes c) Therapeutic- Anti-Perspirant Sprays d) Cleansing- Face washes	1
2	HASE stands for a) Hydrophobically modified Acidic Swellable Emulsions <b>b) Hydrophobically modified Alkali Swellable Emulsion</b> c) Hydrophilically modified Acidic Swellable Emulsions d) Hydrophilically modified Alkali Swellable Emulsions	1
3	One of the following is not an example of surfactant a) Nitrite    b) Vitamin C    c) Vitamin E    d) Vitamin D	1
4	One of the below is not a type of sebumeter a) <b>Sebuanalyze</b> b) Sebutape c) Sebufix d) Skin Diagnostic	1
5	Keratin found in human hair is a) Carbohydrate b) Lipid <b>c) Protein</b> d) Vitamin	1
6	Epidermis does not helps in – a) Immune protection b) Vitamin D synthesis <b>c) Acting as Antimicrobial agent</b> d) Limit water loss	1

7	Sebum measurement by Sebumeter is based on the principle of a) UV spectrophotometer b) Liquid chromatography c) Microscopy d) <b>Greasespot photometry</b>	1
8	One of the below mechanism cannot be used to measure TEWL a) Open chamber b) Closed chamber c) <b>Half open chamber</b> d) Ventilated closed chamber	1
9	One of the following statement is NOT TRUE for SURFACTANTS a) Surfactant means surface active agent. b) Surfactants form micelles at Critical Micellar Concentration c) <b>Surfactants are compounds that increases the surface tension</b> d) Surfactants may act as detergents, emulsifiers, dispersants	1
10	Wet combability is measured under controlled conditions with an objective method using a) Hair Combs b) Rings c) Hair Combing Rings d) <b>Hair Combing Rig</b>	1
11	One of the major disadvantages of vegetable dyes is; a) Bad appearance b) Skin irritation c) Highly expensive d) <b>Dyes the finger</b>	1
12	_____ is used as effective preservative in tooth paste. a) <b>Methyl parahydroxy benzoates</b> b) Propylene glycols c) Hydrogen peroxide d) Para phenols	1
13	Toxicity of oxidation dye is due: a) o-phenylenediamine b) Phenylenediamine c) Phenyldiamine d) <b>p-phenylenediamine</b>	1
14	Periodontal disease can be avoided by; a) Cleansing type b) Mouth wash type c) <b>Therapeutic type</b> d) Powder type	1

15	_____ is one of the important ingredient in mouth wash a) <b>Sodium bicarbonate</b> b) Dilute sodium hypochlorite c) Sodium benzoate                      d) Sodium hypochlorite	1
16	In sunscreen products, _____ is required if natural oils are used. a) <b>Antioxidants</b> b) Buffers c) Complexing agents                      d) Preservatives	1
17	An Organic Chemical is considered as effective UV filter. a) Tinosorb <b>b) Oxybenzone</b> c) Iron oxide                      d) Titanium oxide	1
18	Accelerated stability study conditions for cosmeceuticals are performed at one of the below conditions as per ICH guidelines. a) 2 to 8 Deg C                      b) 30°C/75% RH c) <b>40°C/75% RH</b> d) 25°C/65% RH	1
19	_____ are present in Aloe vera. a) Starch mixtures                      b) Volatile oils c) Limonoids <b>d) Anthraquinones</b>	1
20	Turmeric, a herbal drug is specifically considered for various _____ ailments. a) Hair tonic                      b) Eye care c) Oral care <b>d) Skin care</b>	1

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	<b>Short Answer Questions</b>	<b>6Q x 5M = 30M</b>
1	Explain the hair growth cycle.	5M
2	Explain the principle and mechanism of corneometer.	5M
3	Describe acne.	5M
4	What are Hair dyes? Briefly write about vegetable dyes as hair colorants.	5M
5	Mention any two ideal qualities of a shampoo. Add a note on surfactants used in shampoos.	5M
6	Enlist any four QC tests for sunscreen preparations. Discuss Type I and III type of skin with standard SPF values.	5M

### Answer Keys

	Short Answer Questions	6Q x 5M = 30M
1	<p>Explain the hair growth cycle.</p> <p>Brief explanation of the hair growth cycle with a diagram (4M+1M)</p>	
2	<p>Explain the principle and mechanism of corneometer.</p> <p>Principle – 2M, Mechanism – 3M</p>	
3	<p>Describe acne.</p> <p>Definition – 1M, Types and causes- 2 M. Treatment- 2 M</p>	
4	<p>What are Hair dyes? Briefly write about vegetable dyes as hair colorants.</p> <p>Definition- 2M, Explanation – 3M</p>	
5	<p>Mention any two ideal qualities of a shampoo. Add a note on surfactants used in shampoos.</p> <p>Ideal qualities – 2M, Note on surfactants with e.g. – 3M</p>	
6	<p>Enlist any four QC tests for sunscreen preparations. Discuss Type I and III type of skin with standard SPF values.</p> <p>Enlist QC tests – 2 M</p> <p>Discussion – 3M</p>	