HEYRBAL DRUG TECHNOLOG

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| **LONG ESSAYS** |  |
| 1. Discuss in detailed the various skin care formulations with their importance. |
| 2. Mention various Ayurvedic formulations and elaborate the formulation of Asava and its alcoholic content determination. |
| 3. Explain the WHO and ICH guidelines for assessment of herbal drug. |
| 4. Explain in detail the concept of Ayurvedic system of Medicine |
| 5. Discuss quality control assessment of Herbal Cosmetics. |
| 6. Give a detailed account on the regulations of manufacture of ASU drugs as per schedule Z. |
| 7. Explain the selection, identification and authentication of herbal materials. |
| 8. Write the sources and description of raw materials of herbal origin used as skin care products. |
| 9. Describe the WHO guidelines for the assessment of herbal drugs. |
| 10. Describe the WHO guidelines for the assessment of herbal drugs. |
| 11. Explain Good agricultural practices in cultivation of medicinal plants including organic farming.  |
| 12. Write the sources and description of raw materials of herbal origin used as hair care products. |
| 13. Describe the herbs used in skin care in detail with examples. |
| 14. Explain in detail stability testing of herbal drug formulations. |
| 15. Explain the Good agricultural practices in the cultivation of medicinal plants.  |
| 16. Explain the importance of garbling, drying and preservation in the processing of herbal raw materials.  |
| 17. Describe the herbs used in hair care in detail with examples. |
| 18. Write a detailed note on patenting of traditional knowledge and natural products with examples.  |
| 19. Explain the principle, diagnosis and methods of treatment in Ayurveda and Homeopathy system of medicine. |
| 20. Define and classify herbal excipients with examples. Describe the role of herbal excipients in cosmetics. |
| 21. Explain the need for quality control of raw materials and extracts. Describe WHO guidelines for quality control of Herbal drugs |
| 22. Explain different pest management methods used in cultivation of medicinal plants. |
| 23. Define herbal excipients with examples and write their role in skin and hair cosmetics. |
| 24. Write a detailed note on patenting of traditional knowledge and natural products with examples.  |
| 25. Describe in detail the morphological and microscopical methods of identification and authentication of herbal materials. |
| 26. Write different herbal liquid formulations. Give a detailed account on preparation, standardization and preservation of herbal syrups.  |
| 27. Write a detailed note on patenting of traditional knowledge and natural products with examples.  |
| 28. Describe the WHO guidelines for the assessment of herbal drugs. |
| 29. Explain Good agricultural practices in cultivation of medicinal plants including organic farming.  |
| 30. Write a note on herbal excipients and their significance as Colorants, Sweeteners & Binders. |

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| **SHORT ESSAYS** | **7x5=35 Marks** |

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| 1. Discuss in brief on “Sodhana” process. |
| 2. What are Nutraceuticals?  Discuss on the present market scenario and scope of nutraceuticals. |
| 3. Add a brief note on storage areas under GMP in herbal drug industry. |
| 4. What is Biopiracy? Explain patent case study of Curcuma. |
| 5. Give the ideal characteristics of Leha and churna |
| 6. Write the possible side effects of Kava-Kava, Garlic and pepper |
| 7. Enlist the various Bioinsecticides and explain any two in detail |
| 8. Give the general herbal ingredients of herbal shampoo |
| 9. Discuss on present scope of Herbal Drug Industries  |
| 10. Discuss in brief “Marana” process. |
| 11. Discuss the morphological authentication of Herbal materials. |
| 12. Write the possible side effects of Ginseng and Ephedra. |
| 13. Add a detailed account on Garlic as a nutraceutical. |
| 14. Briefly explain the patenting aspects of traditional knowledge and natural products. |
| 15. Give a note on infrastructural requirements under GMP for herbal industry. |
| 16. Add a note on Organic farming |
| 17.Give a note on herbal skin care cosmetics |
| 18.Enlist the various herbs used as health food.  Discuss any two of them |
| 19.Define Herb. Explain the methods for Processing of Herbal raw materials. |
| 20.Write about the side effects and interactions of Kava-kava. |
| 21.Give the benefits and role of nutraceuticals in Diabetes.  |
| 22.Give the sources and description of any two fixed oils and waxes used in herball cosmetics. |
| 23.Write a short note on colorants and sweeteners as herbal excipients and their significance. |
| 24.Explain Schedule Z of Drugs & Cosmetics act for ASU drugs. |
| 25.Write in detail the patent case study of Curcuma.  |
| 26.Give the general ingredients of herbal shampoos. |
| 27.Enumerate different pest control methods and explain biological control method. |
| 28.Write a short note on biopesticides. |
| 29.Write a note on general aspects, market growth of nutraceuticals. |
| 30.Write the scope and future prospects of herbal drug industry. |
| 31.Give the health benefits and role of nutraceuticals in CVS diseases. |
| 32.Give side effects and interactions of Ginkobiloba. |
| 33.Give the source, chemical constituents and uses of any two natural gums.  |
| 34.Write a short note on binders and diluents used as herbal excipients. |
| 35.Write a note on stability testing of herbal drugs. |
| 36.Write a note on major institutions involved in medicinal plant research.  |
| 37.Define and classify nutraceuticals with examples. |
| 38.Explain the health benefits and role of nutraceuticals in CVS diseases. |
| 39.Explain the method of preparation of Aristas. |
| 40.Describe the possible side effects and interactions of hypericum and kava-kava. . |
| 41.Write a note on natural sweeteners and flavoring agents used in pharmaceutical formulations with examples. |
| 42.Explain the regulation of manufacture of ASU drugs in India. |
| 43.Write a note on WHO guidelines for the assessment of herbal drugs.  |
| 44.Discuss the natural disintegrants used in pharmaceutical formulations with examples. |
| 45.Explain the present scope and future prospects of herbal drug industry.  |
| 46.Explain any two methods for the determination of alcohol content in asavas. |
| 47.Explain the health benefits and role of nutraceuticals in diabetes. |
| 48.Explain the health benefits and role of ashwagnadha and ginseng as nutraceuticals.  |
| 49.Describe the possible side effects and interactions of garlic and ephedra.  |
| 50.Explain the diluents and viscosity builders from natural source with examples. . |
| 51.Write a note on fixed oils and waxes used herbal cosmetics with examples.  |
| 52.Write the significance of quality control of raw materials and extracts, explain.  |
| 53.Explain the basic principles of Siddha and Unani. |
| 54.Give a brief account on plant-based industries and institutions in India. |
| 55.Write different methods for processing of herbal raw materials and explain storage of herbal drugs with examples. |
| 56.Define and classify Nutraceuticals with examples. Give the source and uses of Spirulina. |
| 57.Write a note on herbal-drug and herb-food interactions with examples. |
| 58.Explain the role of nutraceuticals in the treatment of irritable bowel syndrome.. |
| 59.Name the herbs used in skin care preparations. Give the source, uses and significance of Aloevera and Neem in skin care preparations. |
| 60.Give the source of Saffron, hibiscus and Bringaraj. Explain their role in cosmetics. |
| 61.What are the advantages of patenting natural products? Explain with examples. |
| 62.Discuss the case study of Neem and Curcuma in patenting. |
| 63.Discuss the machinery and equipments required for herbal drug industry as per GMP.  |
| 64.Name the various dosage forms of Ayurveda and explain the preparation of Taila |
| 65.Describe the role of honey as health food. |
| 66.Describe the possible side effects and interactions of hypericum and kava-kava.  |
| 67.What are polyherbal tablets? Discuss their evaluation parameters. |
| 68.Describe the role of herbs in dental care.  |
| 69.Explain about infrastructural requirements of herbal drug industry as per Schedule T. |
| 70.Elaborate the ICH guidelines for assessment of herbal drugs. |
| 71.Write a note on regulation of manufacture of ASU drugs.  |
| 72.Explain the principles of Ayurveda, Siddha and Unani systems of medicine |
| 73.Discuss the objectives and components of GMP. |
| 74.Classify biopesticides with examples. What are the advantages of biopesticides. |
| 75.Define and classify nutraceuticals with examples. |
| 76.Explain the health benefits and role of nutraceuticals in irritable bowel syndrome and gastric diseases. |
| 77.Describe the possible side effects and interactions of ginkobiloba and ginseng.  |
| 78.What is the role of bleaching agents and protective agents from herbs in the preparation of cosmetics? Explain with examples.  |
| 79.Write a note on phytosomes. |
| 80.Explain the WHO guidelines for the assessment of herbal drugs. |
| 81.Explain about documentation and record maintenance as per Schedule Z |
| 82.Give the preparation and standardization of Asavas involved in Ayurvedic formulations. |
| 83.Give the side effects and interactions of Pepper and Ephedra. |
| 84.Write a note on stability testing of herbal drugs.  |
| 85.Discuss the components of GMP (Schedule T) for ASU drugs. |
| 86.Give the sources and description of bleaching agents and anti-oxidants used in herbal cosmetics. |
| 87.Write a short note on flavoring agents and perfumes as herbal excipients and their significance. |
| 88.Define Patent. Explain the Patent Case Study of Curcuma and Neem. |
| 89.Explain Garlic and honey as Health food. |
| 90.Write a short note on Herb-Drug interactions. |

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| **SHORT ANSWERS** | **10x2=20 Marks** |

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| 1.Define Herb and Herbal medicines. |
| 2.Health benefits of Ginger and Chicory |
| 3.What are phytosomes ? |
| 4.Significance of preparation of herbarium |
| 5.Write the characteristics of Hair dyes |
| 6.Give the source and active principles of a natural diluent |
| 7.What are the objectives of GMP? |
| 8.What is meant by farmers right? |
| 9.Role of honey as health food |
| 10.Name any two natural bleaching agents with biological source. |
| 11.What is meant by SOP?  |
| 12.Give the source and active constituents of a natural binder |
| 13.Enlist four dietary supplements under nutraceuticals |
| 14.What is meant by farmers right ? |
| 15.Mention the health benefits of Spirulina  |
| 16.Name any two oral hygienic herbal formulations available in market |
| 17.Name the components of GMP |
| 18.Write the Characteristics of Hair dyes |
| 19.Write the advantages of Bioinsecticides |
| 20.Define patent  |
| 21.What are Asava and Arista? |
| 22.Give the source and chemical constituents of any one herb used as perfume.  |
| 23.Mention the uses of Alfalfa as a Nutraceutical. |
| 24.Define bioprospecting. |
| 25.Name any two natural gums and their biological source.  |
| 26.List out two herbal excipients used as sweeteners with their biological source. |
| 27.Enlist two nutraceuticals used in gastrointestinal diseases with their active constituents. |
| 28.What are hair tonics? |
| 29.Define IPR. |
| 30.Write any two biopesticides with biological source. |
| 31.What are Asava and Lehya?  |
| 32.Define Herbal medicinal product. |
| 33.What are probiotics? Give examples. |
| 34.What is the basic principle involved in homeopathy? |
| 35.Mention two examples of nutraceuticals used in the treatment of cancer. |
| 36.Give two examples of waxes used in herbal cosmetics. |
| 37.What are the ideal requirements of bhasma? |
| 38.List any four plant-based industries in India. |
| 39.Mention the constituents and uses of Spirulina. |
| 40.Name two herbs used in dental care with their biological source.  |
| 41.Give the source, chemistry and uses of Aloe vera in herbal cosmetics. |
| 42.What are the objectives of GMP with respect to herbal drugs? |
| 43.What are bhasma and lehya? |
| 44.Define ghutika and churna? |
| 45.Name any two herbal antioxidants and give their biological source. |
| 46.Mention two natural viscosity builders and give their biological source. |
| 47.Name any two bioinsecticides with their biological source. |
| 48.Give the source, chemistry and uses of Henna in herbal cosmetics.  |
| 49.What do you mean by patent and biopiracy? |
| 50.Write the side effects and interactions of pepper as health food? |
| 51.Write any two plant-based bioinsecticides and their biological source. |
| 52.What are traditional medicines? Name any two ayurvedic formulations.  |
| 53.What are the source, active constituents and uses of honey? |
| 54.What are the source, active constituents and uses of ginkobiloba? |
| 55. Name any two natural sweeteners and give their biological source. |
| 56.Mention any two natural flavoring agents and give their biological source. |
| 57.Give two evaluation parameters for herbal skin care products. |
| 58.What is bioprospecting and biopiracy? |
| 59.Define breeder’s right? |
| 60.What is schedule T? |
| 61.Define herbal medicine with examples. |
| 62.Define biofertilizers with examples. |
| 63.Write the source of Hypericum and Amla. |
| 64.Define perfume. Give two examples for perfumes of natural origin. |
| 65.Define phytosomes. |
| 66.Define flavors. Mention two examples for flavors of natural origin. |
| 67.Define Marker compound? Give one example. |
| 68.What is Schedule Z? |
| 69.What is gutika? Give examples. |
| 70.Mention the chemical constituents of Ephedra and Ashwagandha. |
| 71.Define herbal drug preparation with examples. |
| 72.Define organic farming. |
| 73.What is nutraceutical? Write one example. |
| 74.Mention the source of Garlic and Pepper. |
| 75.Name any two natural sweeteners with biological source. |
| 76.Mention the evaluation parameters for herbal syrups. |
| 77.Name two natural perfumes with their biological source. |
| 78.What is chromatographic fingerprinting? |
| 79.Give the significance of estimation of microbial content in herbal drugs. |
| 80.What is master formula record? |
| 81.Define herbal medicinal product and herbal drug preparation. |
| 82.What are traditional medicines? Name any two ayurvedic formulations.  |
| 83.What are the source, active constituents and uses of alfalfa? |
| 84.Mention the source, active constituents and uses of amla.  |
| 85.Give the source, chemistry and uses of Soapnut in herbal cosmetics. |
| 86.Name two herbs used for dental care and give their biological source. |
| 87.Give the characteristics of herbal hair dyes.  |
| 88.What do you mean by farmer’s right and breeder’s right? |
| 89.What is bioprospecting  and biopiracy? |
| 90.Name any two plant-based industries and research institutions in India. |
| 91.What are ghutika and churna? |
| 92.List any two plant-based industries in India. |
| 93.Define Biopesticides with examples. |
| 94.Mention the source and chemical constituents of ginger.  |
| 95.Mention the significance of Phytosomes. |
| 96.Give examples for antioxidant herbs.  |
| 97.Give the chemical constituents and uses of Amla. |
| 98.Define Nutraceuticals. |
| 99.Give examples of herbal excipients used as binders.  |
| 100.Define Bioprospecting. |