

UG Odd Semester (CBCS) Exam., December—2016

PHARMACEUTICAL SCIENCE

(7th Semester)

Course No. : BPH-708 (C)

(Herbal Drug Technology)

Full Marks : 75

Pass Marks : 30

Time : 3 hours

*The figures in the margin indicate full marks
for the questions*Answer **five** questions, taking **one** from each Unit

UNIT—I

1. What is herbal drug technology? Enumerate the benefits of using herbal drugs. Enlist the different advantages of herbal drugs over conventional drugs. 3+6+6=15
2. Explain whether 'herbal drugs are safe or not' with examples. What are the different forms of herbal drug available for drug delivery? Specify few examples of herbal drug's side effect. Describe few incidences of herbal drug interaction. 4+4+3+4=15

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(Turn Over)

UNIT—II

3. Who coined the term 'nutraceuticals'? Classify different types of nutraceutical with examples. What are the roles of 'prebiotics' and 'probiotics' in the nutrition and disease prevention? Mention one herbal fruit and vegetable containing highest amount of macro- and micro-nutrients. Enlist four pure isolated nutraceuticals from herbal sources. 1+4+4+2+4=15
4. Mention five herbs used in cosmetics preparation. Describe their phyto-constituents. Define wound healer and cosmeceuticals. How does herbal wound healer elicit its pharmacological action? 2½+5+4+3½=15

UNIT—III

5. (a) Mention five types of skin disorder. 5
(b) Discuss the application of five important herbs for the treatment of skin disorders in respect to their chemical constitutes, dosage form and biological sources. 10
6. What are the common symptoms of cold and diarrhoea? How are they treated with the herbal drugs? 5+10=15

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(Continued)

(3)

UNIT—IV

7. (a) What are the roles of marker compounds in herbal drugs evaluation? 5
- (b) Discuss the different analytical parameters for the identification of andrographalis and *Gymnema sylvestre* as raw herbal materials. 5+5=10
8. (a) Specify the TLC and HPLC standards of Brahmi and *Gymnema sylvestre*. 5
- (b) Mention the specific use and physical standards of those plants. 5+5=10

UNIT—V

9. (a) What are the responsibilities and work profiles of quality control and quality assurance personnel? 7
- (b) Discuss the different WHO guidelines for standardizing herbal drugs. 8
10. (a) How do you estimate the total polyphenol contents in crude drug extracts? 6

(4)

- (b) How is the quality of the herbs influenced by the assessment of moisture content, total ash value? Answer with suitable explanation. How do you measure the pesticide residues in herbal samples? 6+3=9
