

Time: 3hrs

Marks: 75

Q. 1 Attempt all multiple-choice questions (MCQ)

20M

Sr No	Questions	Options
1	The exploration, extraction and screening of biological diversity and indigenous knowledge for commercially valuable genetic and biochemical resources	a Biodiversity prospecting b Ethnopharmacology c Reverse pharmacology d Metabolomics
2	Studies that describe local people's interaction with the natural environment	a Ethnoecology b Ethnoentomology c Ethnobotany d Ethnozoology
3	When a part of same plant which is devoid of therapeutic action is mixed, it is referred as	a Admixture b Sophistication c Inferiority d Spoilage
4	RAPD in DNA fingerprinting refers to ---	a Randomly Amplified Polymorphic DNA b Randomly Associated Polymorphic DNA c Regularly Amplified Polymorphic DNA d Randomly Amplified Polymeric DNA
5	Marker compound utilized for standardization of <i>Embelica officianalis</i> is ----	a Boswellic acid b Gallic acid c Commiphoric acid d Abeitic acid
6	Pieces of amber coloured glass in colophony is an example of	a Harmful adulteration b Substitution type adulteration c Adulteration of inferior quality d Substitution of substandard variety

- 7 Limit for lead content in herbal drugs in India
- a 10 ppm
 - b 5 ppm
 - c 3 ppm
 - d 2 ppm
- 8 Use of piperine in ayurvedic medicine is mainly to enhance the activity of drug through
- a Inhibition of CYP enzymes
 - b Induction of CYP enzyme
 - c Absorption of drug
 - d Distribution of drug
- 9 MTT gets converted to ----- by live cells and yield purple colour
- a Farmazan
 - b Trypan blue
 - c Crystal Violet
 - d Methylene blue
- 10 In DPPH assay the loss of violet colour is due to
- a Reduction of DPPH
 - b Oxidation of DPPH
 - c Hydrolysis of DPPH
 - d Complexation of DPPH with reagents
- 11 Which of the following is not Irreversible beta cytotoxic agent induce diabetes
- a Alloxan
 - b Steptozocin
 - c Vacor
 - d Azide
- 12 Which of the following is used for induction of cardiotoxicity
- a isoproterenol
 - b Carbon tetrachloride
 - c Thioacetamide
 - d Paracetamol
- 13 ACE inhibitors are known to react with
- a Capsicum
 - b onion
 - c Garlic
 - d Green tea
- 14 Myocardial infarction leads to increase in levels of
- a Lactate dehydrogenase
 - b Bilirubin
 - c Proteins
 - d Caspase

- 15 The ASU drugs are manufactured in accordance with the formula as per defined in
a section 3 (a) DCA
b section 2 (a) DCA
c section 3 (b) DCA
d section 2 (b) DCA
- 16 Area of excision wound on day 0 is 500 mm² and on day 4 the area is observed to be 330 mm². What is the % of healing of the wound
a 34%
b 43%
c 66%
d 57%
- 17 Clove & Heparin when consumed together
a May cause increase in bleeding time
b May increase blood pressure
c May cause decrease in bleeding time
d May cause Renal toxicity
- 18 Andrographoid is a
a Labdane diterpenoid
b Triterpenoid
c Monoterpenoid
d Meroterpenoid
- 19 In case of evaluation of antiulcer activity 8 animals were given aspirin. The ulcer scores were observed to be 3,4,2,3,3,4,5,2. What is the ulcer index?
a 1.25
b 2.25
c 3.25
d 4.25
- 20 Green tea , high is tannins should be avoided with
a Antibiotics
b Codiene
c Antioxidants
d Catechin

Q 2. Attempt any two question

20M

- Discuss Analytical Profile for *Andrographis paniculata* and *Embllica officianalis*
- Enlist models for evaluation of antiulcer activity and discuss any two in detail
- Discuss evaluation of Foreign matter, microbial load and pesticides in herbal drugs

Q 3. Attempt any seven questions

35M

- I. write a note on DNA finger printing techniques for identification of drugs of natural origin
- II. Explain the following terms and their impact in traditional Medicine
 - a. Bioprospecting
 - b. Ethnopharmacology
- III. Write a note on Pharmacodynamic and Pharmacokinetic issues of herbal drugs
- IV. Give significance of antioxidant activity and explain any one method for evaluation of the same
- V. Explain any one in-vivo model for evaluation of anticancer activity
- VI. Explain Acute toxicity evaluation as per OECD guidelines
- VII. Explain Reverse Pharmacology and its significance in drug discovery
- VIII. Explain any one model for evaluation of anti-inflammatory activity
- IX. Explain two methods for evaluation of radical scavenging activity
