



ER20-PH-13T

8003

BOARD DIPLOMA EXAMINATION (Ints.), (ER-20)

AUGUST—2022

DPH – FIRST YEAR EXAMINATION

PHARMACOGNOSY

Time : 3 hours]

[Total Marks : 80

PART—A

6×5=30

- Instructions :**
- (1) Answer *any six* questions.
 - (2) Each question carries **five** marks.
 - (3) Answers should be comprehensive and criterion for valuation is the content but not the length of the answer.

1. Write about the basic principles involved in the Ayurveda and Homeopathic medical system. 2½+2½=5
2. Define Evaluation. Explain chemical evaluation of crude drugs. 2+3=5
3. Define and classify Tannins and write down its properties, classification, identification tests for tannins. 5
4. Write biological source and chemical constituents and uses of Acacia and Opium. 2½+2½=5
5. Write biological source, chemical constituents, and uses of silk and coriander. 2½+2½=5
6. Write the biological source, chemical constituents and uses of digitalis and colchicum seeds. 2½+2½=5
7. Write the organoleptic characteristics and uses of Rauwolfia and Punarnava. 2½+2½=5

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PART—B

3×10=30

- Instructions :** (1) Answer *any ten* questions.
(2) Each question carries **three** marks.
(3) Answers should be brief and straight to the point and shall not exceed five simple sentences.

8. Write the chemical constituents of Hyoscyamus and Ergot. $1\frac{1}{2}+1\frac{1}{2}=3$
9. Write modified borntrager's test for identification of anthraquinone glycosides. 3
10. Write the biological source of following : $1+1+1=3$
(a) Myrrh
(b) Aloe
(c) Coca
11. Define crude drugs. Write alphabetical classification of crude drugs with merits and demerits. $1+2=3$
12. Name one crude drug belongs to the following family and write its uses. $1+1+1=3$
(a) Labiatae
(b) Myrtaceae
(c) Meliaceae
13. Write briefly on systematic study of crude drugs. 3
14. Write in brief the food sources that contain carotenoids. 3

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15. Write down the chemical constituents of following : 1½+1½=3

(a) Lavender oil

(b) Cinchona

16. Write morphological characteristics of following crude drugs. 1½+1½=3

(a) Ispaghula

(b) Gelatin

17. Write about Tridosha siddhanta. 3

18. Define the following : 1+1+1=3

(a) Phytochemicals

(b) Neutraceuticals

(c) Surgical dressings

PART—C

20×1=20

Instructions : (1) Answer **all** questions.

(2) Each question carries **one** marks.

(3) Answers should be single word or single sentence.

19. The term 'Pharmacognosy' was first used by German scientist Seydler in his book ____.

20. Choose the **correct** crude drug with its pharmacological action.

(a) Antimalarial — Datura

(b) Anti-cancer — Vinca

(c) Oxytocic — Nux Vomica

(d) Antihypertensive — Acacia

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21. Ergot contains _____ alkaloids.
22. _____ alkaloidal drug is used as antitussive.
23. Podophyllum is belongs to _____ family.
- (a) Berberidacea
 - (b) Liliaceae
 - (c) Leguminosae
 - (d) Solanaceae
24. Biological source of shark liver oil is _____.
25. Biological source of cardamom is
- (a) Dried flower of Elteria cardamom
 - (b) Dried ripe fruit of Elteria cardamom
 - (c) Dried leaves of Elteria cardamom
 - (d) Dried roots of Elteria cardamom
26. The chemical constituent(s) of Ipecac is/are
- (a) Emetine
 - (b) Cephaline
 - (c) Psychotrine
 - (d) All of the above

- 27.** What is/are the chief chemical constituent(s) of coffee?
- (a) Vincristine
 - (b) Strychnine
 - (c) Emodine
 - (d) All of the above
- 28.** _____ glycosides give foam on shaking.
- 29.** Inulin is
- (a) Pre-biotic
 - (b) Pro-biotic
 - (c) Antioxidant
 - (d) Carotenoid
- 30.** _____ pink colour with phloroglucinol and conc. HCl.
- 31.** Gelatin 1 consists of which of the following protein(s)?
- (a) Keratin
 - (b) Glutine
 - (c) Both (a) and (b)
 - (d) None of the above
- 32.** Which of the following contains resin used as sedative, analgesic and narcotic?
- (a) Ginger
 - (b) Tolubalsam
 - (c) Male fern
 - (d) Cannabis

33. _____ crude drug is used as antihypertensive and tranquilizer.

34. Omega-3-fatty acids reduces the levels of

- (a) LDL, VLDL
- (b) HDL
- (c) antioxidants
- (d) fibrin

35. Lavender oil is obtained from its

- (a) leaves
- (b) wood
- (c) flowering tops
- (d) fruit

36. Drugs are adulterated for following *except*

- (a) enhancement of profit
- (b) increase its purity
- (c) for costly drugs
- (d) scarcity of crude drug

37. Keller-killiani test is positive by

- (a) alkaloids
- (b) fixed oils
- (c) glycosides
- (d) volatile oils

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38. Fibers are made up of

- (a) cellulose
- (b) may or may not be lignin
- (c) Both (a) and (b)
- (d) None of the above

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BOARD DIPLOMA EXAMINATION, (ER-20)

JANUARY—2023

DPH – FIRST YEAR EXAMINATION

PHARMACOGNOSY

Time : 3 hours]

[Total Marks : 80

PART—A

- Instructions :**
- (1) Answer *any six* questions.
 - (2) Each question carries **five** marks.
 - (3) Answers should be comprehensive and the criterion for valuation is the content but not the length of the answer.

- 1. Classify Crude drugs and explain alphabetical classifications of Crude drugs. 3+2=5
- 2. Define Adulteration and explain various methods of Adulteration of Crude drugs. 1+4=5
- 3. Define Alkaloids with examples. Write any two identification tests of Alkaloids. 3+2=5
- 4. Define Laxatives. Write the chemical constituents and uses of Senna. 2+3=5
- 5. Write about the biological source and uses of Acacia. 3+2=5
- 6. Write about the basic principles of Ayurveda. 5
- 7. Explain the role of medicinal and aromatic plants in national economy. 3+2=5

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PART—B

- Instructions :** (1) Answer **ten** out of eleven questions.
(2) Each question carries **three** marks.
(3) Answers should be brief and straight to the point and shall not exceed five simple sentences.

8. Define Drug Evaluation. List out various evaluation methods. $1\frac{1}{2}+1\frac{1}{2}=3$
9. Define Glycosides and give two examples. $2+1=3$
10. Write the biological source and chemical constituents of Opium. $1\frac{1}{2}+1\frac{1}{2}=3$
11. Define Oxytocic and write the chemical constituents of Ergot. $2+1=3$
12. Define Astringent. Give two examples. $2+1=3$
13. State the biological source and uses of Beeswax. $2+1=3$
14. Write the biological source and uses of Cinnamon. $2+1=3$
15. Define Tannins. Give two examples. $2+1=3$
16. Define Diuretics. Write the biological source of any two Diuretic drugs. $1+2=3$
17. Write about the method of preparation of Lehya. 3
18. Write about the importance of Unani system. 3

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PART—C

1×20=20

- Instructions :** (1) Answer **all** questions.
(2) Each question carries **one** mark.

- 19.** Drug which does not belong to fruit class is
- (a) Artemisia
 - (b) Fennel
 - (c) Coriander
 - (d) Colocynth
- 20.** The root from which of the following drugs is effective as an antiseptic
- (a) Turmeric
 - (b) Rauwolfia
 - (c) Aconite
 - (d) Ipecacuanha
- 21.** When totally different substance is added in place of original drug is called
- (a) spoilage
 - (b) sophistication
 - (c) admixture
 - (d) substitution
- 22.** Tannins give Gold beater's skin test
- (a) negative
 - (b) positive
 - (c) absent
 - (d) None of the above

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- 23.*** Resins are obtained from
- (a) bark of a tree
 - (b) flowers of herb
 - (c) buds of shrubs
 - (d) All of the above
- 24.** Example of Cardiac glycoside is
- (a) Aconite
 - (b) Cinchona
 - (c) Vinca
 - (d) Digitalis
- 25.** Biological name of Ispaghula is
- (a) *Adthoda vasica* – Acanthaceae
 - (b) *Cassia acutifolia* – Leguminosae
 - (c) *Cassia angustifolia* – Leguminosae
 - (d) *Plantago ovata* – Plantaginaceae
- 26.** Which one of the following is an antihypertensive drug?
- (a) Benzoin
 - (b) Ergot
 - (c) Vinca
 - (d) Rauwolfia
- 27.** Which one of the following is an Antidiabetic drug?
- (a) Gymnema
 - (b) Colchicum
 - (c) Rauwolfia
 - (d) Myrobalan

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28.* Wool consists of which of the following protein?

- (a) Keratin
- (b) Fibroin
- (c) Myosin
- (d) Tubulin

29. Among tridosha, vata is related to

- (a) air and space
- (b) fire and water
- (c) water and space
- (d) vayu and agni

30. Medicines prepared in the form of oils are known as

- (a) taila
- (b) lehya
- (c) gutika
- (d) churna

31. Yogurt belongs to the class of

- (a) probiotics
- (b) fibres
- (c) antioxidants
- (d) carotenoids

32. Inulin is

- (a) prebiotic
- (b) probiotic
- (c) an antioxidant
- (d) None of the above

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33.* Cinchona is used as

- (a) antimalarial
- (b) carminative
- (c) antidiabetic
- (d) antihypertensive

34. Ipecacuanha belongs to _____ family.

35. Chemical constituent present in Fennel is _____.

36. In the word Pharmacognosy 'gignosco' means _____.

37. Opium contains _____ type of alkaloids.

38. Vinca Alkaloids used in the treatment of _____.



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BOARD DIPLOMA EXAMINATION, (ER-20)

SEPTEMBER—2023

DPH - FIRST YEAR EXAMINATION

PHARMACOGNOSY

Time : 3 Hours]

[Total Marks : 80

PART—A

5×6=30

Instructions : (1) Answer *any* **six** questions.

(2) Each question carries **five** marks.

(3) Answers should be comprehensive and criterion for valuation is the content but not the length of the answer.

1. Define the term 'Drug Adulteration' and explain the various methods of adulteration of crude drugs. 1+4=5
2. Define alkaloids with examples. Write any three identification tests of alkaloids. 2+3=5
3. Define anti-dysenteric. Give the biological source, chemical constituents and uses of Ipecacuanha. 5
4. Define anticancer drugs. State the biological source, chemical constituents and uses of Vinca. 5
5. What is Cardiotonic? Write the biological source, chemical constituents and uses of Digitalis. 5
6. What is Oxytocic? Write the biological source, chemical constituents and uses of Ergot. 5
7. Write about the basic principles involved in (a) Ayurveda and (b) Unani. 2½+2½=5

PART—B

3×10=30

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- Instructions :** (1) Answer *any* **ten** questions.
(2) Each question carries **three** marks.
(3) Answers should be brief and straight to the point and shall not exceed five simple sentences.

8. Define pharmacognosy and write the scope of pharmacognosy. 1+2=3
9. Write the difference between organized drugs and unorganized drugs. 3
10. List out the various methods of evaluation of crude drugs. 3
11. Write the biological source, chemical constituents and uses of Fennel. 3
12. State the biological source, chemical constituents and uses of Ephedra. 3
13. Write the functions of surgical dressings. 3
14. Write the method of preparation of Bhasma. 3
15. List out the various plants which are exported from India and imported to India. 3
16. What are dietary fibres? Write the uses of dietary fibres. 3
17. Write a brief note on novel drug delivery of herbal formulations. 3

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18. Write the chemical constituents and cosmetic uses of Aloe vera gel. 3

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PART—C

1×20=20

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- Instructions :** (1) Answer **all** questions.
(2) The question carries **one** mark.
(3) Answer should be single word or single sentence.

19. Example for an unorganized drug is/are

- (a) leaves
- (b) flowers
- (c) fruits
- (d) gums

20. Which of the following contains resin used as sedative, analgesic and narcotic?

- (a) Ginger
- (b) Tolu balsam
- (c) Benzoin
- (d) Cannabis

21. Example for a cardiac glycoside is

- (a) Aconite
- (b) Cinchona
- (c) Vinca
- (d) Digitalis

22. Which one of the following is an antimalarial drug?

- (a) Benzoin
- (b) Cinchona
- (c) Ergot
- (d) Vinca

23. The shark liver oil contains

- (a) vitamin A
- (b) vitamin B
- (c) vitamin C
- (d) vitamin D

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24. The biological source of Vasaka is

- * (a) *Adhatoda vasica* – Umbelliferae
- (b) *Adhatoda vasica* – Apocynaceae
- (c) *Adhatoda vasica* – Acanthaceae
- (d) *Adhatoda vasica* – Solanaceae

25. The biological source of European Squill is

- (a) *Urginea maritima* – Liliaceae
- (b) *Urginea indica* – Liliaceae
- (c) *Urginea maritima* – Leguminosae
- (d) *Urginea indica* – Leguminosae

26. Medicines which are prepared in the form of tablets and pills are known as

- (a) Taila
- (b) Lehya
- (c) Gutika
- (d) Churna

27. Senna is mainly cultivated in

- (a) Tamil Nadu
- (b) Andhra Pradesh
- (c) West Bengal
- (d) Uttar Pradesh

28. Omega-3-fatty acids reduces the levels of

- (a) LDL, VLDL
- (b) HDL
- * (c) antioxidants
- (d) fibrin

29. The route of administration of Vincristine liposomes is

- * (a) intravenous
- (b) intramuscular
- (c) subcutaneous
- (d) intradermal

30. Liposomes can accommodate

- (a) hydrophilic drugs
- (b) hydrophobic drugs
- (c) Both (a) and (b)
- (d) None of the above

31. Olive oil is used as

- (a) demulcent
- (b) emollient
- (c) nutrient
- (d) All of the above

32. Sandalwood oil contains

- (a) α , β -Santalol
- (b) olein
- (c) volatile oil
- (d) fat

33. Borntrager's test is positive for

- (a) anthraquinone glycosides
- (b) alkaloids
- * (c) tannins
- (d) resins

34. An agent that cause evacuation of bowels is called ____.

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35. Castor oil chiefly contains triglycerides of ____.

36. Taila is also known as ____.

37. Cod liver oil contain(s) ____ vitamin(s).

38. The substances that can be considered as food, which provides nutritive value and health benefits are called as ____.

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