



INSTITUTE OF INDIGENOUS MEDICINE, UNIVERSITY OF COLOMBO, RAJAGIRIYA

DEGREE OF BACHELOR OF AYURVEDA MEDICINE AND SURGERY

SECOND PROFESSIONAL BAMS (2017/ 2018) EXAMINATION

OCTOBER - NOVEMBER 2022

A.2.1.1 – DRAVYAGUNA VIGNANA – II

Date: 11.10.2022

Time: 9.45 am – 12.15 pm

Answer all questions

Index No:

**Part I – Structured Questions**

1. A

1.1 Explain the importance of **Kushtaghna** and **Kandughna** actions in treating skin disease conditions. Mention **two (2)** examples for each. (01 Mark)

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1.2 List out **four (4)** examples with prepared drugs for the following drug actions related to Thwacha (02 Marks)

Drug action	Example	Prepared drug
1. Swedajanana		
2. Swedapanayana		
3. Snehana		
4. Snehopaga		

B

1.1 What is meant by **Mutravirechaneeya dravya**? Mention **two (2)** examples. (01 Mark)

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1.2 Briefly explain how the above drugs are activated in the body, according to Ayurveda pharmacological properties. (01 Mark)

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1.3 Mention **one (1)** indication for each drug. (0.5 Marks)

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**C**

1.1 Write **two (2)** drug actions with **most suitable example** that commonly used in treatments related to the respiratory tract. (01 Mark)

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1.2 Write **one (1)** identification character of following medicinal plants. (1.5 Marks)

- a. Raktha chandana - .....
- b. Swetha chandana - .....
- c. Gammalu - .....
- d. Bakuchi - .....
- e. Sapthachakra - .....
- f. Aragwadha - .....

2.  
A 25yrs married lady wanted to prevent her getting pregnant due to some of her non-medical personal problem.

2.1 Which kind of drug actions needed to treat the above condition? (01 Mark)

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2.2 What are the plants that can be used for above (2.1) patient? Name **two (2)** plants with their botanical names. (02 Marks)

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2.3 The above patient is also experiencing heavy bleeding during menstruation. Name **two (2)** drugs with **one (1)** synonym for each that can be used in this condition. (02 Marks)

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2.4 What is Arthavajanana action and mention the mechanism of action of that. (03 Marks)

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**3.**  
A 48 yrs-old female research participant diagnosed with left knee joint Sandhigata Vata with Sandishula (Knee Joint pain), Sandhishotha (Knee Joint swelling), *Prasarana akunchanayoho vedana* (Knee joint pain during movements), Sthabdha (Stiffness). She was having a severe pain in the left knee joint while walking and showing bone deformities in the radiographs.

3.1 Name **three (3)** Vedanasthapana dravya can be used to make herbal preparation for above condition? (01 Mark)

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3.2 Briefly explain the Ayurveda pharmacodynamic properties of above listed ingredients (03 Marks)

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3.3 Name **two (2)** herbal pills can be prescribed for above condition at the OPD setting. (01 Mark)

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3.4 Write down the Rasa, Guna, Virya, Vipaka of Guggulu (03 Marks)

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**4. A**

4.1 Briefly explain the mode of action of Nidra Janana dravya according to their pharmacological properties. (01 Mark)

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4.2 List four (04) medicinal plants which with the above actions (Nidra Janana dravya). (02 Marks)

Sinhala Name	Sanskrit name	Synonym	Used part
a.			
b.			
c.			
d.			

4.3 Write the Guna Shloka of one of the above plants and describe its properties and actions (01 Mark)

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**B**

4.1 Write the four (4) most suitable medicinal plants with botanical names for Thrushna nigravana action (01 Mark)

Sanskrit name	Botanical name
1.....	.....
2.....	.....
3.....	.....
4.....	.....

4.2 Briefly explain the pharmacological action of Thrushna nigravana dravya with their properties (Rasa, Guna, Viraya, Vipaka and Prabhava) and justify the action. (1.5 Marks)

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4.3 Write Guna Shloka of Shunti and describe its properties and actions. (1.5 Marks)

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5.

A 55 years old patient came to Clinical Pharmacology Department with intermittent cough and shortness of breathing. According to the patient's history he was suffering from hypertension from 10 years back and continuing the hypertensive drugs. After diagnosis it is concluded that his respiratory issue was related to the long-term use of hypertensive drugs. According to this case-based study, answer the following questions.

5.1 What is the possible group of hypertensive drugs used by the patient? (02 marks)

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5.2 How you overcome the above situation? (02 marks)

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5.3 What is therapeutic index? (02 Marks)

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5.4 What are the types of receptors that responsible for therapeutic effects? (02 Marks)

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## Part II – Essay Questions

1.

1.1 Explain the following statements

- Mutra virechaneeya dravya act as Ashmaree prathishedaneeya dravya
- Mutra sangraheeya dravya can be indicated for Prameha conditions
- Sweda janana dravya is important in treating the patients with Jwara
- Kaphanissaraka action gives beneficial effect for Kasa & Swasa conditons.

(03 Marks x 4)

1.2 Briefly describe primary plant metabolites by giving examples.

(02 Marks)

1.3 Mention 04 important factors of secondary plant metabolites

(02 Marks)

1.4 What is meant by phytochemicals and write **four (4)** groups of them

(02 Marks)

1.5 Name the plants that contained following chemical constituents

(02 Marks)

- Azadirachtin
- Psoraline
- Indigoferine
- Berberine

2.

Describe and compare the following drug actions **along with examples** according to Ayurvedic concepts related with Dravya Guna Karma.

(05 Marks x 4)

- Balya and Vrunhana.
- Grahi and Stambhana
- Daha prashamana and Sheeta prashamana
- Vrunaropana and Vrunashodhana

Date: 11.10.2022

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