

Exam Date &amp; Time: 17-Jun-2022 (10:00 AM - 01:00 PM)



# MANIPAL ACADEMY OF HIGHER EDUCATION

## Herbal Drug Technology [PCO-BP603T-S1]

Marks: 75

Duration: 180 mins.

### I Multiple Choice Questions (MCQs)

Answer all the questions.

Section Duration: 30 mins

- 1) "Majja" of Sapta-dhatu theory in Ayurveda is referring to (1)
- |          |        |           |         |
|----------|--------|-----------|---------|
| 1) Blood | 2) Fat | 3) Marrow | 4) Bone |
|----------|--------|-----------|---------|
- 2) Following is a touch receptor present in the dermis (1)
- |                        |                         |                     |                       |
|------------------------|-------------------------|---------------------|-----------------------|
| 1) Ruffini's corpuscle | 2) Meissner's corpuscle | 3) Krause corpuscle | 4) Pacinian corpuscle |
|------------------------|-------------------------|---------------------|-----------------------|
- 3) Exhausted Tea can be detected by (1)
- |              |                       |                      |                     |
|--------------|-----------------------|----------------------|---------------------|
| 1) Total ash | 2) Acid insoluble ash | 3) Water soluble ash | 4) All of the above |
|--------------|-----------------------|----------------------|---------------------|
- 4) Fenugreek belongs to the family (1)
- |                 |             |              |              |
|-----------------|-------------|--------------|--------------|
| 1) Papaveraceae | 2) Fabaceae | 3) Liliaceae | 4) Meliaceae |
|-----------------|-------------|--------------|--------------|
- 5) Hide powder is used in the determination of (1)
- |                  |                     |                    |                   |
|------------------|---------------------|--------------------|-------------------|
| 1) Foaming index | 2) Bitterness value | 3) Saponin content | 4) Tannin content |
|------------------|---------------------|--------------------|-------------------|
- 6) Ilaj bil ghiza is \_\_\_\_\_ therapy (1)
- |          |             |            |               |
|----------|-------------|------------|---------------|
| 1) Dieto | 2) Pharmaco | 3) Surgery | 4) Regimental |
|----------|-------------|------------|---------------|
- 7) Shikakai is used for \_\_\_\_\_ care (1)
- |         |         |         |         |
|---------|---------|---------|---------|
| 1) Oral | 2) Skin | 3) Hair | 4) Nail |
|---------|---------|---------|---------|
- 8) Minimum area required for setting up ASU Medicine manufacturing unit is \_\_\_\_\_ Sq. Feet (1)
- |         |         |         |         |
|---------|---------|---------|---------|
| 1) 1000 | 2) 1050 | 3) 1100 | 4) 1200 |
|---------|---------|---------|---------|
- 9) Antibiotic activity of Rifampin is \_\_\_\_\_ with Pepper (1)
- |              |              |                |              |
|--------------|--------------|----------------|--------------|
| 1) Decreased | 2) Increased | 3) Neutralized | 4) No action |
|--------------|--------------|----------------|--------------|
- 10) According to IMCC Act, 1970 following are exempted from the purview of GMP (1)
- |                       |                       |                       |                     |
|-----------------------|-----------------------|-----------------------|---------------------|
| 1) Registered Vaidyas | 2) Registered Siddhas | 3) Registered Hakeems | 4) All of the above |
|-----------------------|-----------------------|-----------------------|---------------------|
- 11) Organon of medicine is the bible of \_\_\_\_\_ (1)
- |             |               |           |          |
|-------------|---------------|-----------|----------|
| 1) Ayurveda | 2) Homeopathy | 3) Siddha | 4) Unani |
|-------------|---------------|-----------|----------|

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12) Which of the following inventions cannot be patented?

1) Any new and useful art or process	2) Substance produced by manufacture and includes any new and useful improvement	3) Substance prepared or produced by chemical process	4) Relating to atomic energy and prejudicial to the defence of India
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(1)

13) Nano-vesicles made up of phospholipids and have high content of ethanol are called

1) Liposomes	2) Ethosomes	3) Niosomes	4) Transferosomes
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(1)

14) "RRL" is situated in

1) Punjab	2) Karnatak	3) Tamilnadu	4) Jammu
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(1)

15) \_\_\_\_\_ is used as natural viscosity building agent

1) Tragacanth	2) Xanthan gum	3) Chitosan	4) Mannitol
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(1)

16) Sooksham churna is classified on the basis of \_\_\_\_\_ of the particles

1) Nature	2) Source	3) Size	4) Shape
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(1)

17) Mozhi is one of the prime factor used for the diagnosis of disease in \_\_\_\_\_ system of medicine

1) Ayurveda	2) Siddha	3) Unani	4) Homeopathy
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(1)

18) Advantages of Plant Breeders' Rights (PBR) are

1) Protecting the breeders' work	2) It will promote monopoly	3) It may lead to increase in prices	4) There will be reduction in genetic variability
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(1)

19) Braccoli contains \_\_\_\_\_

1) Xenoestrogen	2) Phytoestrogen	3) Flavonoids	4) Sulphoraphane
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(1)

20) Peppermint oil is obtained from \_\_\_\_\_ plant

1) Mentha	2) Pepper	3) Lemon	4) Rose
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(1)

## II Long Answers

Answer all the questions.

- 1) What are Bhasmas and how are they prepared? Give a detailed method of their evaluation parameters. (10)
- 2) Give a detailed procedure for the determination of bitterness value and foaming index of a crude drugs as per the WHO guidelines. (10)

## III Short Answers

Answer all the questions.

- 1) Define and give the preparation of vati and gutika and how are they evaluated? (5)
- 2) Give the source and uses of Ginkgo. Add a note on its interaction with other allopathic drugs. (5)

- 3) Define cosmetics. Write the basic requirements for skin care products. Give the biological source, chemical constituents and uses of coconut oil and turmeric. (5)
- 4) Define and give the benefits of patent. Explain the case study of turmeric. (5)
- 5) Define Schedule-T of ASU drugs. Explain the requirements for the manufacture of sterile products. (5)
- 6) Write about Indian industries involved in the production of herbal drugs. (5)
- 7) Write about viscosity builders with their types, advantages and disadvantages. Add a note on ANY ONE such natural excipient for its source, constituents and incompatibility. (5)

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