1 Year B.Pharm (Ayurveda)

(Model Question Paper)

Part 1- Biological Sciences

Paper 1: Basic Concepts of Ayurveda and Sanskrit

Time-3 Hours Max Marks: 100

Answer any **Two**

1. What are adharaneeya vegas? Mention the diseases occurring due to Avarodha of Mootra vegas.
2. Different sthanas of Vata, Pitta and Kapha. Explain functions of Panchavidha Pitta.
3. Write in brief Mootra varga. Which is the best in them and why? What are the characteristics of lavana varga. **(2x10)**

Answer any **Eight**

1. What are the saptavidha ahara kalpanas?
2. Explain the features of Adhana kala
3. Mention Manodosha and its general line of treatment.
4. In brief, explain vyayama
5. What is Alasaka?
6. Define Vishoochika and mention its treatment.
7. Gunas of Ghritam.
8. Explain the features of uttarayana
9. What is Anupana? Give examples.
10. Properties of Diwaswapna and its contraindications.

(8x5)

Answer any **Five**

1. Mention types of Dravyas.
2. What is Anupana?
3. What is Ritu-sandhi?
4. Features of Rasa kshay and Rakta kshay.
5. What is Viruddha Ahara?
6. What is Alasaka? **(5x3)**

PART – B

(Sanskrit)

I. अन्वयार्थं स्वमातृभाषया लिखत।

1) एकं शास्त्रं वैद्यमध्यात्मकं वा सौख्यं चैकं यत्सुखंवा तपं वा
वन्द्यश्चैको भूपतिर्वा यतिर्वा ह्येकं कर्म श्रेयसंवा यशोवा. 5

2) आत्मांशैश्च सुरा: सर्वे भूमौ वानररूपिण:।
जायेरन् मम सादाय्यं कर्तुं रावणनिग्रहे ।। 4

3) यातुधानस्तत: सर्वे रसातलनिवासिन:।
दशाननं समाश्रित्य लङ्कायां सुखमावसन्।। 4

4) तत: सुमन्त्रवचनाद् ऋव्यश्रृङ्गं स भूपति:।
आनीय पुत्रकामेष्टिमारेभे सपुरोहित: ।। 4

II. शब्दानां सप्तविभक्तिषु रूपाणि लिखत :

1) इकारान्त: स्त्रीलिङ्ग: ''मति'' शब्द : 4

2) हलन्त पुल्लिङ्ग: ''महत्'' शब्द: 4

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1 Year B.Pharm (Ayurveda)

(Model Question Paper)

Part 1- Biological Sciences

Paper II: Sareera Vijnanam

Time-3 Hours Max Marks: **100**

Answer any **Two**

1. What is bone? What are the parts of hip bone with diagram?
2. Define Garbha as per Sushrut and modern. Explain garbhotpadaka bhavas.
3. What are blood cells. Explain erythropoeises and write about the function of RBC.

(2x10)

Answer any **Ten**

1. What is the joint? Explain the ligaments of knee joint with figure.
2. What is Shadangatva?
3. Explain the parts of Humerus with diagram.
4. Write the internal features of Kidney.
5. Explain the formation of Urine.
6. What are the functions of Spinal cord.
7. Describe the Cardiac cycle.
8. What are the enzymes secreted from the stomach and its role in digestion?
9. Define shareera and its importance.
10. Explain respiratory mechanism.
11. What are functions of bile juice? **(10x5)**

Write short notes on (Any **Ten**)

1. Blood supply to spleen.
2. Oja dhatu
3. Functions of skin
4. Greater omentum.
5. Pitta dosha prakara
6. Agni
7. Pituitary gland
8. Physiology of Eye
9. Kostha
10. Sweda
11. Basalic vein **(10x3)**

1 Year B.Pharm (Ayurveda)

(Model Question Paper)

Part II- Pharmaceutical Chemistry

Paper III: Pharmaceutical Chemistry

Time - 3 Hours Max Marks: **100**

Answer any **Two**

1. Explain the resonance theory of Benzene. Explain Friedal craft's acylation of Benzene.

2. Write any three chemical reactions of alcohols. How will you distinguish between primary, secondary and tertiary amines?

3. Explain the following reactions of aldehydes

   i) Oxidation reaction
   ii) Nucleophilic addition reaction

   Explain any two general methods of preparation of Ketones. **(2x10)**

Answer any **Ten**

1. Explain Baeyer's strain theory.
2. Explain inductive effect.
3. Explain the following
   i) Carbylamine reaction
   ii) Anti-Markonikov addition
4. Write notes on Covalent bond and Sp2 hybridization
5. Write any two general methods of preparation of nitro compounds.
6. Explain acid and alkali hydrolysis of ester.
7. Explain any two identification tests for aldehydes.
8. Explain mechanism of esterification.
9. Write notes on Hydrogen bond and Hyperconjugation.
10. Explain Satzeff's rule with an example.
11. Explain ozonolysis of alkenes. **(5x10)**

Answer the following (Any **Ten**)

1. Write short note on Boiling point
2. Explain with reaction mechanism Halogenation of benzene
3. Draw the structural formula for

   i) 2-Methyl-1-butene
   ii) 1-Chloro-2-methylpropane
4. Write short note on Melting point

5. Draw the structural formula for

    i) 5-Oxohexanoic acid
    ii) 2-Chloro-3methylpentane
6. Explain with reaction mechanism Sulphonation of benzene.
7. Write short notes on Rosenmund reduction.
8. Write short notes on SN2 mechanism.
9. What is hydrogen bonding.
10. Write notes on Saponification
11. Write notes on Transesterification. **(3x10)**

1 Year B.Pharm (Ayurveda)

(Model Question Paper)

Part II- Pharmaceutical Chemistry

Paper IV: Pharmaceutical Analysis

Time - 3 Hours Max Marks: **100**

Answer any **Two**

1. Explain the types of errors and methods avoiding errors in pharmaceutical analysis in detail.
2. Enlist various steps in gravimetry. Explain each step in brief.
3. Explain the titration curve for ferrous ammonium sulphate Vs feric ammonium sulphate.

(2x10)

Answer any **Ten**

1. Explain the theories of acid base indicators in brief.
2. Classify redox indicators with suitable examples.
3. Explain the term significant figure. Give the rules for retaining significant figure.
4. Enlist the advantages of ceriometry over permangnometry.
5. Give the requirements for and ideal primary standard with suitable examples.
6. Explain the principle of Karl Fischer titration with suitable examples.
7. List the advantages of organic precipitants.
8. Classify solvents used in non aqueous titrations.
9. Give the requirements of ideal primary standard. Give suitable examples.
10. Explain Fajan's method for the estimation of halides.
11. Give conditions for successful iodometry. **(5x10)**

Answer any **Ten**

1. Define the term indictors. Classify them suitable examples.
2. Write about any three metal ion indicator.
3. Explain in brief gasometric assay of carbon dioxide.
4. Write note on kjeldhal method for nitrogen estimation
5. Write about diazotization method.
6. Explain principle of modified Mohr's method.
7. Write the principle involved in the assay hydrogen peroxide IP.
8. Explain preparation and standardization 0.1N Sodium thiosulphate solution.
9. Under what circumstances back titrations in complexometry.
10. Write and explain terms in Nernt's equation.
11. Explain the principle for the assay of drugs estimated using titanous chloride. **(3x10)**

1 Year B.Pharm (Ayurveda)

(Model Question Paper)

Part III- Pharmaceutical Biology

Paper V: Pharmaceutical Biology

Time - 3 Hours Max Marks: **100**

Answer any **Two**

1. Define fleshy fruits. Classify and explain them with example. With the help of neat labeled diagram explain the anatomy of dorsiventral leaf.

2. With the help of neat labeled diagram explain the life cycle of malarial parasite. Explain the three different classes of phylum porifera.
3. Define root with the help of neat labeled diagram explain the different regions of the root system. Explain the different types of leaf apex. **(2x10)**

Answer any **Ten**

1. Write short notes on Trichomes and Conducting tissue.

2. Write short notes on organ products as a raw material of drugs of animal origin.
3. Describe classes, characteristics and examples of Phylum Arthropoda.
4. Write short notes on Snail and Leishmania.
5. Draw a neat labeled diagram of plant cell and explain various oraganelles present in it.
6. Describe the diagnostic characters of family Liliaceae with examples.
7. Write a brief account on method of classification of plant kingdom.
8. Bring out the difference between frog and toads.
9. With the help of neat labeled diagram explain fasciola hepatica as a parasitic nematode.
10. Write short note on Stomata and Dehiscent capsular fruits.
11. Explain Parenchyma and False fruits. **(5x10)**

Answer any **Ten**

1. Write notes on Entamoeba.

2. Write differences between Hypogynous and perigynous flower,
3. Write a note on Corals
4. Write source, active constituents and uses of a medicinal plant belonging to family Compositae.
5. Write four charaters of phylum Chordata.
6. Write note on Porifera.
7. Write the difference between Sclerenchyma and Collenchyma.
8. Write unique features of phylum Mollusca.
9. Draw a labeled diagram of Liver fluke.
10. Write difference between endospermic and non endospermic seeds
11. Write a note on Seedless fruits. **(3x10)**

1 Year B.Pharm (Ayurveda)

(Model Question Paper)

Part IV- Basic electronics and computer application

Paper VI

Time - 3 Hours Max Marks: **100**

Answer any **Two**

1. Explain the types of conventional languages along with its advantages and disadvantages.
2. Explain different extrinsic semiconductors with proper examples.
3. Explain major classifications of memory in detail with examples. **(2x10)**

Answer any **Ten**

1. Write a note on MS Office.
2. Explain the need for computers in pharmacy.
3. Explain logical and arithmetic operators.
4. Explain Half wave Rectifier with neat labeled diagram.
5. Distinguish between intrinsic and extrinsic semiconductors. Give one example for each.
6. Explain RAM and ROM.
7. Explain any 5 internal and 5 external DOS commands.
8. Define data structures. Explain the abstract data types with its characteristics.
9. Write a note on different types of computers and its uses.
10. Define trees. Discuss its usage in different applications.
11. What is character set? Write rules for naming the variables. **(5x10)**

Write short notes: (Any **Ten**)

1. Photodiode
2. Print control statements
3. Arithmetic and relations expressions
4. Parts of MS Word and MS Excel windows
5. Unix operating system
6. Features of C programming language
7. Analogue and digital computers
8. PASCAL and FORTAN
9. Ordered list and linked list
10. Abacus and PASCAL's calculator
11. LET, INPUT, READ, DATA AND Print statements. **(3x10)**