Govt. M.H. College of Home Science & Science for women, Autonomous
Jabalpur M.P.

Code No. OBS/201/B/21

M.Sc. II Semester Open Book Main Examination July 2021
Subject : - Botany
Paper-I : Taxonomy of Angiosperms

Max. Marks : 35
Min. Marks : 12

Note : Attempt all questions in about 250 to 300 words.
All questions carry equal marks.

Q.1   Explain in brief the International code 07 botanical nomenclature.

Q.2   Give a detail account of Herbarium.

Q.3   Describe the evidences from cytology, which are used in Taxonomy?

Q.4   Describe the family Asteraceae.

Q.5   Describe the nature of following food plants and explain their products.
Wheat (Triticum aestirum)
Rice (Oriza Sativa)
Arhar (Cajanus cajan)

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Govt. M.H. College of Home Science & Science for women, Autonomous Jabalpur M.P.

Code No. OBS/202/B/21

M.Sc. II Semester Open Book Main Examination July 2021
Subject : - Botany
Paper-II : Resource Utilization & Conservation

Max. Marks : 35
Min. Marks : 12

Note : Attempt all questions in about 250 to 300 words.
All questions carry equal marks.

Q.1   What is biome? Describe the desert biome.

Q.2   Define biodiversity. Give an account of biodiversity.

Q.3   Define conservation. Describe different method of soil conservation.

Q.4   Define air pollution. Give an account of various types of air pollutants.

Q.5   Discuss the role of remote sensing in Ecology & forestry.

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Govt. M.H. College of Home Science & Science for women, Autonomous Jabalpur M.P.

Code No. OBS/203/B/21

M.Sc. II Semester Open Book Main Examination July 2021
Subject : - Botany
Paper-III : Biochemisrty

Max. Marks : 35
Min. Marks : 12

Note : Attempt all questions in about 250 to 300 words.
All questions carry equal marks.

Q.1 Give a detailed account of coupled reaction and oxidative phosphorylation.

Q.2 Give the classification and significance of enzymes.

Q.3 Give the classification of carbohydrates with examples.

Q.4 Explain nutrient transport across bio-membranes.

Q.5 Write an account of paper chromatography.

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Code No. OBS/204/B/21

M.Sc. II Semester Open Book Main Examination July 2021
Subject : - Botany
Paper-IV : Biostatistics and Computer Application

Max. Marks : 35
Min. Marks : 12

Note : Attempt all questions in about 250 to 300 words.
All questions carry equal marks.

Q.1 What is statistics? Write the scope of statistics in botanical experimentation..

Q.2 Write the characteristics of normal curve and explain the method for the calculation of probability under normal distribution.

Q.3 Write the formulas and procedure for one way analysis of variance.

Q.4 Distinguish between correlation and regression write the formulae for the calculation of their co-efficient.

Q.5 Describe the major component of computer hardware.

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Code No. OBS/201/B/21

M.Sc. II Semester Practical Sessional Examination July 2021
Subject : - Botany
Practical - I

Max. Marks : 10

Note : All questions are compulsory.
Each question carries one mark.

Q.1   Describe the Genus "Tridex brocumbeus" (family Rubiceceae) according the taxonomic key with floral diagram.

Q.2   Describe the Genur " Azadirachta indica" (family Meliaceae) according to taxonomic key with floral diagram.

Q.3   Explain the Inflorescence of family lamiaceae & Poaceae.

Q.4   Write a short note on different types of ovule with diagram.

Q.5   Write short note on plants-
(i) Ashwagandha   (ii) Sarbgandha
(iii) Turmeric   (iv) Amla

Q.6   Write short notes on-
(i) Aquatic ecosystem   (ii) Biodiversity

Q.7   Write about timber and non wood forest products.

Q.8   Write a note on National parks of M.P.

Q.9   Write a short note on soil pollution.

Q.10   What is the application of Remote sencing in forestry.

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Code No. OBS/202/B/21

M.Sc. II Semester Practical Sessional Examination July 2021
Subject : - Botany
Practical - II

Max. Marks : 10

Note : All questions are compulsory.
Each question carries one mark.

Q.1 Explain biochemical test for protein with principle.

Q.2 Define catalase enzyme.

Q.3 What are stationary and mobile phases and R.f. value with reference to chromatography.

Q.4 Write a note on SDS PAGE.

Q.5 Explain buffer solution.

Q.6 Find out the mean and median of the following data.
12, 18, 19, 10, 8, 20 and 15.

Q.7 Which law of probability is used when events are mutually exclusive define it.

Q.8 Give the name and formula of non parametric significance test.

Q.9 Write note on standard error.

Q.10 Comment on mouse as an input device.

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