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SUBJECT CODE NO:- B-2164
FACULTY OF SCIENCE AND TECHNOLOGY
B.Sc. T.Y (Sem-VI) Examination OCT/NOV 2019
Botany Paper- XX
(A)Diversity of Angiosperms - II

[Time: 1:30 Hours]   [Max.Marks:50]

Please check whether you have got the right question paper.
N.B   1) Attempt all questions.
                                        2) Draw neat and well labelled diagram wherever necessary.

Q.1   Define Binomial nomenclature Add note on its' principle & rules.   20
                                                            OR
        Describe in details family Euphorbiaceae. Add a note on Economic importance for any two plants.

Q.2   Write an essay on origin of Angiosperms. Add a note on one of the theory of origin of   20
        Angiosperms.
                                                            OR
        Write short notes on(any four)
            1) Herbarium
            2) Botanic Garden
            3) Merits of Takhtajan system
            4) Floral characters of oleaceae
            5) Economic Importance of Verbanaceae
            6) Economic Importance of Amaranthaceae

Q.3   Multiple choice questions   10
            1) Vouchers specimen number is related with_____
                a) Herbarium   b) Plant pathology   c) Plant physiology   d) Cytology

            2) Botanic garden of NBRI is Located at_____
                a) Mumbai   b) Bhopal   c) Lucknow   d) Chennai

            3) Caytonial theory is proposed by _____
                a) Wettstien   b) Halliez   c) Thomas   d) Darwin

            4) Present Binomial nomenclature is proposed by _____
                a) Armen Takhtajan   b) Adolf Engler   c) John Hutchinson   d) Lazlous Linnaeas

            5) Primitive group of Takhtajan system of classification is_____
                a) Myrtales   b) LiLiales   c) Magnoliales   d) Pandanales.

            6) Gloriosa Superba belongs to family
                a) Ozchidaceae   b) Commelinaceae   c) LiLiaceae   d) Poaceae

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7) Botanical name of Amla (Avla) is _____
   a) <u>Phyllanthus emblica</u>   b) <u>Euphorbia hirta</u>
   c) <u>Ricinus</u> <u>Communis</u>   d) <u>Manihot esculanta</u>.

8) <u>Lantana Camera</u> belongs to family_____
   a) Verbanaceae   b) Commelinaceae   c) Oleace   d) Convolvulaceae

9) Follicle fruit type is present in _____
   a) Liliaceae   b) Verbanaceae   c) Asclepiadaceae   d) Convolvulaceae

10) Genus <u>Calatropis</u> belongs to family_____
    a) Oleaceae   b) Amaranthaceae   c) Asclepiadaceae   d) Liliaceae

OR

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FACULTY OF SCIENCE AND TECHNOLOGY
B.Sc. T.Y (Sem-VI) Examination OCT/NOV 2019
Botany Paper- XX
(B)Economic Botany

[Time: 1:30 Hours] [Max.Marks:50]

Please check whether you have got the right question paper.
N.B   1) <u>Attempt all questions</u>.
                     3) Draw neat & well labelled diagram wherever necessary.

Q.1   Write in detail origin, history, morphology, cultivation and uses of Rice.   20
                                         OR

Write in brief
     a) Morphology, cultivation and uses of castor.
     b) Cultivation and uses of Maize.

Q.2   Write in detail Morphology, cultivation, processing and uses of Tea.   20
                                         OR

Write short notes on <u>any four</u> of the following
     a) Cultivation and uses of Jowar.
     b) Processing and uses of Cotton.
     c) Morphology and uses of Orange.
     d) Cultivation and uses of Black pepper
     e) Morphology and uses of Potato.
     f) Morphology and uses of Rose.

Q.3   Multiple choice questions.   10
      1. Cereals belongs to family_____
        a) Poaceae   b) Fabaceae   c) Rutaceae   d) Malvaceae

      2. Scientific name of Bengal gram_____
        a) Cajanus cajan   b) Phaseolus mungo   c) cicer arietinum   d) Phaseolus radiata

      3. which of the following is kharip crop?
        a) Wheat   b) Cotton   c) Both of these   d) None of these

      4. Jute fibre is_____
        a) Surface Fibre   b) Bast Fibre   c) Rough Fibre   d) Coir

      5. Mustard oil is rich in_____
        a) Erucic acid   b) Linoleic acid   c) Palmatic acid   d) Stearic acid

      6. Coffee is a rich source of_____
        a) Caffeine   b) Polyphenols   c) Essential oils   d) Sugar

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7. Banana inflorescence is _____
   a) Spadix   b) Raceme   c) Head   d) cluster of raceme

8. the botanical name of orange is_____
   a) Citrus reticulata   b) Citrus sinensis   c) Citrus lemoni   d) All of the above

9. Which state of India is the largest Tea producer?
   a) West Bengal   b) Assam   c) Sikkim   d) Manipur

10. Orchid flowers are having _____
    a) Long shelf life   b) Short shelf life   c) No shelf life   d) All of the above

OR

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SUBJECT CODE NO:- B-2164
FACULTY OF SCIENCE AND TECHNOLOGY
B.Sc. T.Y (Sem-VI) Examination OCT/NOV 2019
Botany Paper- XX
(c) Microbiology and Disease Management

[Time: 1:30 Hours]   [Max.Marks:50]

Please check whether you have got the right question paper.
N.B   1) Attempt all questions.
                                         2) Draw neat and well labelled diagrams wherever is necessary.

Q.1   What is microscopy? Describe in detail the function of electron microscope.   20

OR

Describe in detail the concept and methods of seed treatment.

Q.2   Give an account of biological control of plant disease management.   20

OR

Write short notes on (Any four)
   a) Fungi as pathogen
   b) Gram staining
   c) Concept of sterilization
   d) Pneumatic air pump
   e) Nicotine
   f) Copper fungicide

Q.3   Multiple choice questions.   10

   1) With dissecting microscope the object may be magnified from_____ times.
      a) 5 to 50   b) 50 to 500   c) 4 to 40   d) 4 to 400

   2) _____fungicide mixture is product of reaction of copper sulphate and calcium
      hydroxide
      a) Burgundy   b) chestnut   c) Chaubattias   d) All of above

   3) Pytethrin is obtained from
      a) Neem   b) Urtica dioca   c) Tagetus   d) Chrysanthemum cineranifolium

   4) Bacillus thurigiensis produce_____
      a) Insecticidal protein   b) Nematodal protein   c) Fungicidal protein   d) All of above

   5) Sterilization is done by autoclave consisting of exposure to stream about.
      a) 120^0C   b) 170^0C   c) 121^0C   d) 116^0C

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6) Antibiotics are toxic to
    a) Plants   b) Microorganism   c) Fungicides   d) All of these

7) The chemical substances that prevent or destroy the pathogenic fungi
    a) Fungicides   b) Weedicides   c) Foliage spray   d) Eradication

8) Tetramethyl thiuram Disulphate. (TMTD) is called
    a) Ferbam   b) Thiram   c) Maneb   d) Zineb

9) _____ are smallest known pathogens
    a) Bacteria   b) Virus   c) Nematodes   d) Viroids

10) Which chemical is used for soil sterilization
    a) Formaldehyde   b) Carbon   c) Sulphur   d) None of these

OR

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FACULTY OF SCIENCE AND TECHNOLOGY
B.Sc. T.Y (Sem-VI) Examination OCT/NOV 2019
Botany Paper- XX
(D) Bioinformatics

[Time: 1:30 Hours]   [Max.Marks:50]

Please check whether you have got the right question paper.
N.B   1) Attempt all questions.
                                  2) Draw neat and well labelled diagrams wherever is necessary.

Q.1   What is data collection and what are the different methods of data collection.   20
                                        OR
       Explain in detail mean deviation? Add a note on chi-square test.

Q.2   Explain the key features of Microsoft windows.   20
                                        OR
       Write short note on (any four) of the following
              a) Bar chart and Line chart
              b) Mode and Median
              c) CPU
              d) Standard error
              e) World Wide Web
              f) PUB MED

Q.3   Multiple choice questions.   10
       1) In a Pie diagram data is represented through_____
          a) Line   b) Bar   c) Circle   d) Picture

       2) Testing of null hypothesis is done in _____
          a) Chi-square   b) Standard deviation   c) Mean   d) Standard error

       3) What is the mean of the sample 13,18,13,14,13,16,14,21,13_____
          a) 13   b) 18   c) 15   d) 14

       4) The main device in a computer is_____
          a) CPU   b) Monitor   c) Mouse   d) Keyboard

       5) _____is the technology that connects the machines and people within a bite in a small
       area.
          a) WAN   b) LAN   c) MAN   d) None of these

       6) MS DOS is developed in _____
          a) 1971   b) 1961   c) 1991   d) 1984

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7) Navigating through pages of information on the web is called _____
    a) Looking   b) Watching   c) Surfing   d) None of these

8) Most popular operating system is_____
    a) Windows   b) Linux   c) DOS   d) Microsoft

9) URL stands for _____
    a) Uniform Request Locator   b) Uniform Resource Locator
    c) Uniterct Request Line   d) Universal Resource Locator

10) PUBMED is a search engine accessing database on _____
    a) References on life science   b) Publisher   c) Books   d) Name of medicines