Day: Wednesday   Time: 03.00 P.M. To 06.00 P.M
Date: 17/10/2018   **W-2018-0699**   Max. Marks: 60

N.B:
  1) All questions are **COMPULSORY**.
  2) Figures to the right indicate **FULL** marks.
  3) Draw neat and labeled diagram **WHEREVER** necessary.

Q.1 A) Choose correct answer from each of the following and rewrite the sentence **(06)**
  1) Tepels are found in
  a) Rubeaceae   c) Liliaceae
  b) Papilionaceae   d) Brassicaceae

  2) In *Cycas*, megasporangia are located on its megasporophyll
  a) dorsally   c) laterally
  b) ventrally   d) apically

  3) In *Pinus* seeds, there are
  a) two cotyledons   c) fleshy cotyledons
  b) three cotyledons   d) many cotyledons

  4) Largest sperms in plant world are found in
  a) *Cycas*   c) *Selaginella*
  b) *Pinus*   d) *Dryopteris*

  5) Which of the following is the correct sequence of taxa?
  a) Division,class,order,family   c) Division, order,class,family
  b) Class,order,division,family   d) family, division,class,order

  6) Endosperm is generally ----------- and formed after fertilization
  a) triploid   c) diploid
  b) haploid   d) all of these

B) Attempt **ANY THREE** of the following: **(06)**
  a) Give floral formulae and floral diagram of family Malvaceae
  b) Give diagnostic characters of family Brassicaceae
  c) Give classification of *Pinus* with reasons
  d) Enlist industrial products of *Ginkgo biloba* which is used in medicine

Q.2   Attempt **ANY TWO** of the following: **(12)**
  a) Give any two evolutionary significance of Gymnosperms
  b) Give key characters of family Rubiaceae and write scientific name of plant
  c) Write classification of Gymnosperms with reasons

Q.3   Attempt **ANY TWO** of the following: **(12)**
  a) Describe female cone of *Pinus*
  b) Give distinguishing characters of family Papilionaceae and Liliaceae
  c) Enlists industrial products of *Ginkgo biloba* which is used in medicine

Q.4   Attempt **ANY TWO** of the following: **(12)**
  a) Mention any two economic importance of plants with their uses from following families i) Rubiaceae   ii) Liliaceae
  b) Give important characters and classification of Angiosperms
  c) Explain uses of *Adulsa* and neem in medicine with name of their industrial products

Q.5   Attempt **ANY TWO** of the following: **(12)**
  a) Explain in brief schematic representation of alternation of generation in *Pinus*
  b) Comment on International code of Binomial nomenclature (ICBN)
  c) Give economic importance of family Papilionaceae and Malvacaeae

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