

147/2017



Question Booklet  
Alpha Code

A

Question Booklet  
Serial Number

120484

Total Number of Questions : 100

Time : 75 Minutes

Maximum Marks : 100

**INSTRUCTIONS TO CANDIDATES**

1. The Question Paper will be given in the form of a Question Booklet. There will be four versions of Question Booklets with Question Booklet Alpha Code viz. **A, B, C & D.**
2. The Question Booklet Alpha Code will be printed on the top left margin of the facing sheet of the Question Booklet.
3. The Question Booklet Alpha Code allotted to you will be noted in your seating position in the Examination Hall.
4. If you get a Question Booklet where the alpha code does not match to the allotted alpha code in the seating position, please draw the attention of the Invigilator **IMMEDIATELY.**
5. The Question Booklet Serial Number is printed on the top right margin of the facing sheet. If your Question Booklet is un-numbered, please get it replaced by new Question Booklet with same alpha code.
6. The Question Booklet will be sealed at the middle of the right margin. Candidate should not open the Question Booklet, until the indication is given to start answering.
7. Immediately after the commencement of the examination, the candidate should check that the Question Booklet supplied to him/her contains all the 100 questions in serial order. The Question Booklet does not have unprinted or torn or missing pages and if so he/she should bring it to the notice of the Invigilator and get it replaced by a complete booklet with same alpha code. This is most important.
8. A blank sheet of paper is attached to the Question Booklet. This may be used for rough work.
9. **Please read carefully all the instructions on the reverse of the Answer Sheet before marking your answers.**
10. Each question is provided with four choices **(A), (B), (C)** and **(D)** having one correct answer. Choose the correct answer and darken the bubble corresponding to the question number using Blue or Black Ball Point Pen in the OMR Answer Sheet.
11. **Each correct answer carries 1 mark and for each wrong answer 1/3 mark will be deducted. No negative mark for unattended questions.**
12. No candidate will be allowed to leave the examination hall till the end of the session and without handing over his/her Answer Sheet to the Invigilator. Candidates should ensure that the Invigilator has verified all the entries in the Register Number Coding Sheet and that the Invigilator has affixed his/her signature in the space provided.
13. Strict compliance of instructions is essential. Any malpractice or attempt to commit any kind of malpractice in the Examination will result in the disqualification of the candidate.

SEAL



1. Monotheous anther is a characteristic feature of the family  
A) Poaceae  
B) Malvaceae  
C) Compositae  
D) Apocynaceae
2. The oil yielding part of coconut is  
A) Mesocarp  
B) Endocarp  
C) Epicarp  
D) Endosperm
3. Largest herbaria of world is located at  
A) New York  
B) Kew  
C) Kolkata  
D) Paris
4. One merit of Bentham and Hooker's system of classification is  
A) Placement of family Asteraceae in the beginning of Gamopetalae  
B) Placement of Gymnospermae in between dicots and monocots  
C) Placement of monocots after the dicots  
D) Placement of family Orchidaceae in the beginning of monocots
5. The fleshy edible portion of jack fruit is a modification of  
A) Mesocarp  
B) Seed coat  
C) Perianth  
D) Ovary wall
6. Quinine is extracted from  
A) *Cinnamomum zeylanicum*  
B) *Colchium autumnale*  
C) *Eleteria cardamomum*  
D) *Cinchona officinalis*
7. Example for spike inflorescence is  
A) *Crotalaria*  
B) *Jasminum*  
C) *Achyranthus*  
D) *Euphorbia*
8. In many bisexual flowers the stamens and pistils mature at different times. This is known as  
A) Dichogamy  
B) Herkogamy  
C) Dicliny  
D) Heterostyly



9. Pollination by beetle is known as
- A) Anemophily                      B) Hydrophily  
C) Ornithophily                    D) Cantharophily
10. Cells or plants containing nucleus of one species but cytoplasm from both the parental species are called
- A) Plasmids                            B) Cosmids  
C) Cybrids                            D) Clones
11. Genes that occur only in Y-chromosome are called
- A) Lethal genes                        B) Plasma genes  
C) Duplicate genes                    D) Holandric genes
12. The rough Endoplasmic reticulum is specially developed in cell activity engaged in
- A) Protein synthesis                    B) Nucleic acid synthesis  
C) Fat synthesis                        D) Carbohydrate synthesis
13. DNA and RNA differ in
- A) Sugar only                            B) Sugar and purines  
C) Sugar and pyrimidines            D) Sugar and phosphate
14. Blight of paddy is caused by
- A) *Pyricularia oryzae*                    B) *Xanthomonas oryzae*  
C) *Phytophthora palmivora*            D) *Phytophthora arecae*
15. In polysaccharide cellulose, glucose units are linked together by
- A)  $\alpha$  (1-4) glycosidic linkage            B)  $\beta$  (1-4) glycosidic linkage  
C)  $\alpha$  (1-6) glycosidic linkage            D) None of these
16. The transfer of genetic material from one bacterial cell to another by a phage called
- A) Transduction                        B) Transformation  
C) Conjugation                         D) Hybridization





17. A technique used to make numerous copies of a specific segment of DNA quickly and accurately
- A) Transduction  
B) Transduction  
C) Ligase chain reaction  
D) Polymerase chain reaction
18. If a person of blood group AB marries one belonging to group O. What will be the blood groups of the children ?
- A) AB and O  
B) A group only  
C) O group only  
D) A and B group
19. When a gene exists in more than two allelic forms, the phenomenon is called
- A) Polygenes  
B) Multiple allelism  
C) Pleiotropism  
D) Multiple genes
20. If the GC content of a DNA molecule is 52%, what are the percentage of the four bases in the DNA molecule ?
- A) G 32%, C 20%, T 20%, A 28%  
B) G 20%, C 32%, T 24%, A 24%  
C) G 26%, C 26%, T 24%, A 24%  
D) G 25%, C 25%, T 25%, A 25%
21. A polyploidy which contains genomes all of the same species is called
- A) Allopolyploid  
B) Amphidiploid  
C) Aneuploid  
D) Autopolyploid
22. Mutation theory of evolution was proposed by
- A) De Vries  
B) Darwin  
C) Weismann  
D) Lamarck
23. Who is known as father of Green Revolution ?
- A) Masanobu Fukuoka  
B) Norman Borlaug  
C) Varghese Kurien  
D) Hiralal Chaudhary
24. Total number of nuclei involved in double fertilization in angiosperms are
- A) Two  
B) Five  
C) Four  
D) Three



25. The rate of photosynthesis is maximum in
- A) Green light
  - B) Blue light
  - C) Red light
  - D) Dark
26. The hormone which is used as a weed killer
- A) 2, 4-dichlorophenoxy acetic acid
  - B) Indole acetic acid
  - C) Benzyl aminopurine
  - D) TIBA
27. The first stable product of Calvin cycle
- A) Ribulose – 1-5, bis phosphate
  - B) 3-phospho glyceric acid
  - C) Oxalo acetic acid
  - D) Malic acid
28. Which one of the following is a heteroecious fungi ?
- A) *Puccinia*
  - B) *Agaricus*
  - C) *Xylaria*
  - D) *Peziza*
29. Reserve food in Phaeophyceae
- A) Volutine
  - B) Laminarin
  - C) Floridian starch
  - D) Starch
30. Write the name of a famous Indian Phycologist.
- A) M. O. P. lyengar
  - B) Birbal Sahni
  - C) Kashyap
  - D) Strasburger
31. Usnea belongs to
- A) Foliose lichen
  - B) Crustose lichen
  - C) Fruticose lichen
  - D) Leprose lichen
32. In which geological period, *Rhynia* belongs ?
- A) Devonian
  - B) Jurassic
  - C) Triassic
  - D) Cambrian

33. Name the pteridophyte with elaters.
- A) *Marselia* B) *Equisetum*  
C) *Selaginella* D) *Angiopteris*
34. Which one of the following is an *exsitu* method for biodiversity conservation ?
- A) Wild Life Sanctuary B) National Park  
C) Seed Bank D) Biosphere Reserve
35. Histogen theory was proposed by
- A) Clowes B) Nageli  
C) Schmidt D) Hanstein
36. Vascular bundle in which xylem surrounds phloem is termed as
- A) Amphivasal B) Amphicribal  
C) Amphiphloic D) Bicollateral
37. Virus are made up of
- A) Proteins, cellulose and DNA  
B) Proteins, DNA, RNA and lipids  
C) Carbohydrates, Nucleic acids and lipids  
D) Protein and DNA or RNA
38. Rod shaped bacterium is known as
- A) Coccus B) Spirillum  
C) Vibrio D) Bacillus
39. In which gymnosperm winged pollen is found ?
- A) *Pinus* B) *Cycas*  
C) *Gnetum* D) *Ephedra*
40. Name the bryophyte in which *Nostoc* colony can be seen in the thallus.
- A) *Riccia* B) *Marchantia*  
C) *Anthoceros* D) *Porella*



147/2017

41. The scientific name of Red Ginger is  
A) *Alpinia purpurata*  
B) *Curcuma zedoaria*  
C) *Zingiber zerumbet*  
D) *Etlingera elatior*
42. Umran is a variety of  
A) Ber  
B) Dates  
C) Fig  
D) Avocado
43. The practice of complete removal of trunk of a tree leaving a stump alone is called  
A) Heading back  
B) Coppicing  
C) Thinning out  
D) Dehorning
44. Name a short day plant.  
A) Radish  
B) Lettuce  
C) Chrysanthemum  
D) Maize
45. Which of the following is dioecious ?  
A) Nutmeg  
B) Melon  
C) Cashew  
D) Coconut
46. \_\_\_\_\_ is a gaseous hormone.  
A) Auxin  
B) Cytokinin  
C) Gibberellin  
D) Ethylene
47. Prathibha is a variety of  
A) Ginger  
B) Cardamom  
C) Pepper  
D) Turmeric
48. \_\_\_\_\_ is a variety of nutmeg.  
A) IISR – Viswashree  
B) IISR – Mahima  
C) IISR – Sakthi  
D) Prathibha

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49. Coconut variety recommended by KAU for use as tender coconut is
- A) Kalpadhenu                      B) Kalparaksha  
C) Chandrakalpa                    D) Kalpamithra
50. \_\_\_\_\_ is a shade cum green manure shrub used for cultivation in coconut garden.
- A) *Stilosanthes gracilis*                      B) *Tephrosia candida*  
C) *Indigofera hirsuta*                          D) *Crotalaria juncea*
51. Allspice belongs to family
- A) Punicaceae                                  B) Umbelliferae  
C) Apilaceae                                    D) Myrtaceae
52. Arka Vikram is a variety of
- A) Rose    B) French bean  
C) Ridge gourd                                D) Cowpea
53. Root hairs are absent in
- A) Kiwi    B) Persimmon  
C) Durian                                        D) Mangosteen
54. \_\_\_\_\_ is the National Flower of India.
- A) *Hibiscus sp.*                                    B) *Nymphaea sp.*  
C) *Rosa sp.*                                        D) *Nelumbo nucifera*
55. A yellow flowered ornamental tree suitable for avenue planting is
- A) *Delonix regia*                                B) *Bauhinia acuminata*  
C) *Peltophorum ferrugineum*                      D) *Cassia grandis*
56. The fruit considered as King of fruits in India is
- A) Mango                                        B) Jack fruit  
C) Pineapple                                    D) Orange





57. The type of fruit in citrus is
- A) Hesperidium      B) Berry  
C) Drupe              D) Sorosis
58. NRC for orchids is located at
- A) Pune                B) Kanpur  
C) Trichy              D) Sikkim
59. The medicinal plant used as brain tonic to enhance memory power is
- A) Kacholam          B) Thippali  
C) Brahmi             D) Ayyappana
60. The enzyme which is responsible for browning of fruits and vegetables is
- A) Lipo oxidase      B) Poly phenol oxidase  
C) Amylase            D) Protease
61. The seed rate of chilli as per the POP of Kerala Agricultural University is
- A) 400 g/ha            B) 500 g/ha  
C) 750 g/ha            D) 1000 g/ha
62. \_\_\_\_\_ is a medicinal orchid.
- A) *Curculigo orchioides*      B) *Wrightia tinctoria*  
C) *Seidentia rheedii*          D) *Withania somnifera*
63. The ultra dwarf rootstock of apple is
- A) M-27                B) M-13  
C) M-111              D) M-104
64. Fig belongs to the same family as
- A) Papaya              B) Jack  
C) Sapota              D) Amla

SEAL



65. Synthetic tetraploid variety of banana is
- A) Bodles Altafort  
B) Klue Teparod  
C) Pisang Lilin  
D) Dwarf Cavendish
66. Pungency in radish is due to
- A) Solanin  
B) Capsaicin  
C) Calcium acetate  
D) Isothiocyanate
67. CISH is located at
- A) Lucknow  
B) Calcutta  
C) Hyderabad  
D) Goa
68. A single seeded vegetable is
- A) Coleus  
B) Leek  
C) Chow-chow  
D) Cucumber
69. Plant used in a garden to make topiary
- A) Pentas  
B) Murraya  
C) Alternanthera  
D) Chrysothemus
70. Which of the following is a non-climateric fruit ?
- A) Litchi  
B) Grape  
C) Pineapple  
D) All of these
71. The richest source of iron is
- A) Pomegranate  
B) Mango  
C) Bael  
D) Dry karonda
72. The system of planting which accommodates 15% more plants than that in square system
- A) Triangular system  
B) Quincunx system  
C) Hexagonal  
D) Rectangular







147/2017

81. A subject is said to be in the concurrent list, when a law can be passed on it by
- A) The State Government
  - B) The Central Government
  - C) The Central and State Government both
  - D) The President and the Prime Minister together
82. The Constitution of India does not mention the post of
- A) The Deputy Speaker of Lok Sabha
  - B) The Deputy Chairman of the Rajya Sabha
  - C) The Deputy Speaker of the State Legislative Assembly
  - D) The Deputy Prime Minister
83. In which date The Right to Information Act, enacted on ?
- A) 15<sup>th</sup> June 2005
  - B) 22<sup>nd</sup> June 2005
  - C) 12<sup>th</sup> October 2005
  - D) 15<sup>th</sup> August 2005
84. The Kerala State Government started a programme to promote organ donation is
- A) Vayomithram
  - B) Mrithasanjeevani
  - C) Amrutha Yojana
  - D) Arogyakiran
85. In 1874 the Basel Evangelical Mission started first Tile Factory in
- A) Pudiyarakallu
  - B) Anjarakandi
  - C) Kallayi
  - D) Tellicherry
86. In which year Poikayil Yohannan established Prathyaksha Raksha Daiva Sabha ?
- A) 1919
  - B) 1909
  - C) 1907
  - D) 1929
87. Ayyavazhi is a dharmic belief system centered on the life and preachings of
- A) Vagbhatananda
  - B) Brahmananda Shivayogi
  - C) Vaikunda Swamikal
  - D) Dr. Ayyathan Gopalan

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147/2017

94. 'Thiruvithamcore Mahajana Sabha' was started by  
A) Poikayil Yohannan  
B) T. K. Madhavan  
C) Barrister G.P. Pillai  
D) Pampadi John Joseph
95. Which great poet of Malayalam founded the 'Kerala Kalamandalam' ?  
A) Ullur  
B) Vallathol  
C) Kumaranasan  
D) Cherusseri
96. On which date did GST (Goods and Services Tax) came into effect in India ?  
A) 30<sup>th</sup> June 2017  
B) 31<sup>st</sup> July 2017  
C) 1<sup>st</sup> July 2017  
D) 1<sup>st</sup> August 2017
97. Who is the newly appointed chairperson of censor board ?  
A) Gurdeep Singh Sappal  
B) Pahlaj Nihalani  
C) Prasoon Joshi  
D) Shashi Sekhar Vempati
98. 'A Horse Walks into a Bar' is a novel written by  
A) Arundathi Roy  
B) Bob Dylan  
C) J. K. Rowling  
D) David Grossman
99. Who is the present Chief Election Commissioner of India ?  
A) Achal Kumar Joti  
B) O. P. Rawath  
C) Dr. Rajiv Kumar  
D) Shashi Sekhar Vempati
100. Who is the acting Chairman of the Kerala State Human Right Commission ?  
A) Justice Kurian Joseph  
B) P. Mohandas  
C) Justice S. Abdul Nazeer  
D) Justice Syriac Joseph



