


B1	Maximum Marks: 60 Total No. of Questions: 60 Total Duration: 80 Minutes Maximum Time for Answering: 70 Minutes Date: ____/____/____				YOUR COLLEGE NAME HERE	
	MENTION YOUR NUMBER					
VERSION CODE					Subject Code	GT-B-01
25UGE(MOCK)						

Do's:





























1. Check whether the CET Number has been entered and shaded in the respective circles on the OMR answer sheet.
2. The version code of this question booklet should be entered on the OMR answer sheet and the respective circles should also be shaded completely.
3. The Version Code and Serial number of this question booklet should be entered on the Nominal Roll without any mistakes.
4. Compulsorily sign at the bottom portion of the OMR answer sheet in the space provided.

DON'Ts:

1. **THE TIMING AND MARKS PRINTED ON THE OMR ANSWER SHEET SHOULD NOT BE DAMAGED / MUTILATED / SPOILED.**
 - Do not remove the seal present on the right-hand side of this question booklet.
 - Do not; look inside this question booklet or start answering on the OMR answer sheet.

IMPORTANT INSTRUCTIONS TO CANDIDATES

1. In case of usage of signs and symbols in the questions, the regular textbook connotation should be considered unless stated otherwise.
2. This question booklet contains 60 questions and each question will have one statement and four different options / responses and out of which you have to choose one correct answer.
3. Remove the paper seal of this question booklet and check that this booklet does not have any unprinted or torn or missing pages or items etc., If so, get it replaced by a complete test booklet. Read each item and start answering on the OMR answer sheet.
4. Completely **darken/shade** the relevant circle with a **blue or black ink ballpoint pen against the question number on the OMR answer sheet.**

CORRECT METHOD				WRONG METHOD											
															
															

5. Please note that even a, minute unintended ink dot on the OMR answer sheet will also be recognized and recorded by the scanner. Therefore, avoid multiple markings of any kind on the OMR answer sheet.
6. Use the space provided on each page of the question booklet for Rough Work. Do not use the OMR answer sheet for the same.
7. Hand over the **OMR** answer sheet to the room invigilator as the final bell rings.

Name of candidate (in capitals): _____

Roll Number: _____ Invigilator's Signature: _____

1. In which class of fungi the mushroom belongs to:
 (1) Basidiomycetes (2) Deuteromycetes
 (3) Ascomycetes (4) Phycomycetes
2. Which stage is marked by terminalization of chiasmata?
 (1) Pachytene (2) Diplotene
 (3) Diakinesis (4) Zygotene
3. To increase production in sugarcane, they are sprayed with:
 (1) IAA (2) Cytokinin
 (3) Gibberellin (4) Ethylene
4. The treatment of snake bite by antivenin is an example of:
 (1) Artificially acquired passive immunity
 (2) Naturally acquired passive immunity
 (3) Specific natural immunity
 (4) Artificially acquired active immunity
5. Cyclosporin is a drug that is used as:
 (1) Immunosuppressant
 (2) Anti retro - viral drug
 (3) Immuno - modulator
 (4) Immuno vaccine
6. A patient is suffering from fever, chills, cough, headache and bluish finger nails and lips. These symptoms are of the disease:
 (1) Malaria (2) Common cold
 (3) Typhoid (4) Pneumonia
7. Tendons connect:
 (1) Bones to bones
 (2) Muscles to bones
 (3) Ligaments to muscles
 (4) Ligaments to bones
8. When pollen is transferred from anther of a flower to stigma of another flower of the same plant, pollination is referred to as:
 (1) Allogamy (2) Siphonogamy
 (3) Xenogamy (4) Geitonogamy
9. Maize is:
 (1) Cleistogamous (2) Anemophilous
 (3) Hygrophilous (4) Entomophilous
10. In double fertilization:
 (1) One male gamete fuses with the egg and the other fuses with the antipodal.
 (2) One male gamete fuses with the egg and the other fuses with the secondary nucleus.
 (3) Two male gametes fuse with two eggs.
 (4) One male gamete fuses with the antipodal and the other fuses with the diploid nucleus.
11. R.Q. of fatty substances is generally:
 (1) Less than one (2) Greater than one
 (3) Unity (4) Zero
12. To analyse the genotype of an organism, it is made to:
 (1) Cross with recessive parent
 (2) Cross with another species
 (3) Cross with dominant parent
 (4) Self cross
13. If a colour blind woman marries a normal vision man, their sons will be:
 (1) $\frac{3}{4}$ th colour blind and $\frac{1}{4}$ th normal
 (2) $\frac{1}{2}$ colour blind and $\frac{1}{2}$ normal
 (3) All colour blind
 (4) All normal visioned
14. XO type of sex determination is found in:
 (1) Elephant (2) Human beings
 (3) Dog (4) Grasshopper
15. Phenotypic ratio in plant Snapdragon in F_2 is:
 (1) 2 : 1 (2) 3 : 1
 (3) 1 : 1 (4) 1 : 2 : 1
16. Holdfast, stipe, and frond constitutes the plant body in case of:
 (1) Phaeophyceae (2) Chlorophyceae
 (3) Rhodophyceae (4) All of these
17. The autonomously independent, self-replicating extra nuclear DNA imparting certain factors to some bacterium is called:
 (1) Phagemid (2) Plasmid
 (3) Plastid (4) Cosmid

18. The technique of DNA fingerprinting was initially developed by:
 - (1) Alec Jeffreys
 - (2) Jacques Monod
 - (3) Ian Wilmut
 - (4) Hargobind Khorana
19. The extraction of DNA from the agarose gel is called as:
 - (1) Isolation
 - (2) Elution
 - (3) Transformation
 - (4) Ligation
20. Thermostable DNA polymerase is isolated from bacterium:
 - (1) Rhizobium
 - (2) Salmonella typhii
 - (3) Escherichia coli
 - (4) Thermus aquaticus
21. Which of the following sets of gases were used in Miller's experiment?
 - (1) H_2 , O_2 , N_2 , CH_4 , H_2
 - (2) CH_4 , NO_2 , H_2O , CO_2
 - (3) H_2 , CH_4 , NH_3 , H_2O
 - (4) NH_3 , CH_3 , H_2O , H_2
22. Who proposed that the first form of life could have come from pre-existing, non-living organic molecules?
 - (1) Oparin and Haldane
 - (2) Alfred Wallace
 - (3) S.K. Miller
 - (4) Charles Darwin
23. The non-directional force that alters Hardy-Weinberg equilibrium is:
 - (1) Gene flow
 - (2) Mutations
 - (3) Gene recombination
 - (4) Genetic drift
24. Ureotelic excretion is found in which of the following pairs of animals?
 - (1) Lizards and Sparrow
 - (2) Chimpanzee and Kangaroo
 - (3) Bats and Crows
 - (4) Frogs and Crows
25. Which of the following parts of brain constitute the brain stem?
 - (1) Fore brain and mid brain
 - (2) Fore brain only
 - (3) Mid brain and hind brain
 - (4) Hind brain and fore brain
26. Emphysema develops mainly because of:
 - (1) Spasm of the smooth muscles of bronchioles
 - (2) Allergy of hypersensitisation
 - (3) Cigarette smoking
 - (4) Inflammation of the alveoli
27. Penicillin was discovered by:
 - (1) Fleming
 - (2) Robert Hooke
 - (3) B. McClintock
 - (4) Robert Brown
28. Methanogens do not produce:
 - (1) Methane
 - (2) Hydrogen sulfide
 - (3) Oxygen
 - (4) Carbon dioxide
29. The site for the light reactions is _____.
 - (1) Stroma
 - (2) Cisternae
 - (3) Grana
 - (4) Vacuoles
30. Which of the following is the correct food chain?
 - (1) Eagle → Snake → Grasshopper → Grass → Frog
 - (2) Grass → Grasshopper → Frog → Snake → Eagle
 - (3) Frog → Snake → Eagle → Grasshopper → Grass
 - (4) Grasshopper → Grass → Snake → Frog → Eagle
31. Which of the following ecosystems is most productive in terms of net primary production?
 - (1) Tropical rain forests
 - (2) Estuaries
 - (3) Oceans
 - (4) Deserts
32. Number of meiotic divisions required to produce 100 macrospores in angiosperm/egg is:
 - (1) 25
 - (2) 100
 - (3) 125
 - (4) 50
33. Secondary plant products are of great use in commerce in making:
 - (1) Drugs and perfumes
 - (2) Poisons and furniture
 - (3) Paints and colours
 - (4) Colours and furniture

34. Process of parturition is facilitated by:
(1) Oxytocin
(2) Relaxin
(3) Gonadotropins
(4) Relaxin and Oxytocin
35. A vasectomy prevents the:
(1) Production of semen
(2) Production of DNA
(3) Movement of sperm into the urethra
(4) Production of sperm in the testes
36. Choose the correct statement regarding the ZIFT procedure:
(1) Ova collected from a female donor are transferred to the fallopian tube to facilitate zygote formation.
(2) Ova collected from a female donor and transferred to the uterus.
(3) Zygote is collected from a female donor and transferred to the fallopian tube.
(4) Zygote is collected from a female donor and transferred to the uterus.
37. Which one of the following plants shows very close relationships with a species of moth, where none of the two can complete its life cycle without the other?
(1) Viola (2) Yucca
(3) Hydrilla (4) Banana
38. Amensalism is an association between two species where:
(1) One species is harmed and other is not affected.
(2) One species is benefitted and other is unaffected.
(3) One species is harmed and other is unaffected.
(4) Both species are harmed.
39. Which of the following hormones is **not** secreted by the human placenta?
(1) Estrogen
(2) Relaxin
(3) Human Chorionic Gonadotropin (HCG)
(4) Progesterone
40. Spermatids are transformed into spermatozoa by:
(1) Spermiation (2) Meiosis
(3) Spermiogenesis (4) Spermatogenesis
41. Fertilization in humans is practically feasible only if
(1) Sperms are transported into cervix within 48 hours of release of ovum.
(2) Ovum and sperms are transported simultaneously to ampullary - isthmic junction of the fallopian tube.
(3) Sperms are transported into vagina just after the release of ovum in the fallopian tube.
(4) Ovum and sperms are transported to ampullary - isthmic junction of the cervix.
42. Main function of mammalian corpus luteum is to produce:
(1) Estrogen only
(2) Relaxin only
(3) Human chorionic gonadotropin
(4) Progesterone
43. Mango is an example of _____.
(1) Pome (2) Berry
(3) Pepo (4) Drupe
44. In uremia patients, urea can be removed by a process called:
(1) Haemoanalysis
(2) Renal replacement therapy
(3) Dialysis
(4) Haemodialysis
45. Which one of the following products was produced as a result of DNA manipulation in the first transgenic cow **Rosie**?
(1) β - lactoglobulin
(2) α - deaminase
(3) α - lactalbumin
(4) α - 1 - antitrypsin
46. First gene therapy was done to a _____.
(1) 4-year-old girl (2) 6 years old boy
(3) 4-year-old boy (4) 6 years old girl

47. Which among the following is oviparous?
(1) Platypus (2) Common dolphin
(3) Elephant (4) Flying fox(Bat)
48. The earth summit (1992) was held at:
(1) Japan (2) Rio - de Janeiro
(3) South Africa (4) Johannesburg
49. Which of the following is not an ex - situ conservation?
(1) Cryopreservation (2) Seed bank
(3) Biosphere reserves (4) Botanical garden
50. The extinction of passenger pigeon was due to:
(1) Bird flu virus infection
(2) Non - availability of the food
(3) Increased number of predatory birds
(4) Over exploitation by humans
51. Which of the following sequences will be produced as a result of transcription of the DNA sequence CGATTACAG?
(1) GCTAATGTC (2) GCUAATCTG
(3) GCUAAUGUC (4) CGUAAUCUG
52. Methyl guanosine triphosphate is added to the 5' end of hnRNA in a process of:
(1) Tailing
(2) Both Splicing and Capping
(3) Capping
(4) Splicing
53. The Human Genome Project (HGP) was initiated in:
(1) 1988 (2) 1990
(3) 1994 (4) 1992
54. Identify the element used by Hershey and Chase to label the protein in their experiment, from the following options:
(1) S^{32} (2) P^{35}
(3) P^{32} (4) S^{35}
55. Reticulate venation is characteristic in:
(1) Isobilateral leaves
(2) Dicotyledonous leaves
(3) Monocotyledonous leaves
(4) Dorsiventral leaves
56. Heart beat can be initiated by:
(1) Sino - auricular node
(2) Intra-ventricular septum
(3) Sino - ventricular node
(4) Purkinje fibres
57. An area in the brain which is associated with strong emotions is:
(1) Medulla (2) Limbic system
(3) Cerebral cortex (4) Cerebellum
58. Which fractions of the visible spectrum of solar radiations are primarily absorbed by carotenoids of the higher plants?
(1) Red and violet (2) Blue and green
(3) Violet and blue (4) Green and red
59. Photorespiration occurs under:
(1) low light and high O_2
(2) low temperature and high O_2
(3) low O_2 and high CO_2
(4) high O_2 and low CO_2
60. A group of closely related families is called _____.
(1) Species (2) Genus
(3) Order (4) Class