

CENTRAL ETHIOPIA REGION EDUCATION BUEAURU

GRADE 12 BIOLOGY MODEL EXAMINATIONS

2017 E.C/2025 G.C

NUMBER OF ITEMS: 100

TIME ALLOWED: 2 HOURS

GENERAL DIRECTIONS

THIS BOOKLET CONTAINS **BIOLOGY MODEL EXAMINATION**. THE EXAMINATION CONTAINS **100 ITEMS**. THERE IS ONLY ONE BEST ANSWER FOR EACH ITEM. CAREFULLY SELECT THE APPROPRIATE ANSWER FROM THE GIVEN ALTERNATIVES AND WRITE THE LETTER OF YOUR CHOICE ON ANSWER THE SHEET.

YOU WILL BE ALLOWED TO WORK **2 HOURS**. ANY FORM OF CHEATING OR ANY ATTEMPT TO CHEAT IN THE EXAMINATION HALL WILL RESULT IN AN AUTOMATIC DISMISSAL FROM THE EXAMINATION HALL AND CANCELLATION OF YOUR SCORE.

PLEASE MAKE SURE THAT YOU HAVE WRITTEN ALL THE REQUESTED INFORMATION ON THE ANSWER SHEET BEFORE YOU START TO DO WORK ON THE EXAMINATION.

DO NOT TURN THIS EXAMINATION UNTIL YOU ARE TOLD TO DO SO.

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Direction: Choose the correct answer for the following questions from the given alternatives

1. Which Ethiopian institution is **NOT** involved in biological research?
 - A. Armauer Hansen Research Institute (AHRI)
 - B. Addis Ababa Institution of Zoological Park (AAIZP)
 - C. Aklilu Lemma Institute of Pathobiology (ALIPB)
 - D. Ethiopian Health and Nutrition Research Institute (EHNRI)
2. What is the correct role of a microscope?
 - A. Observing the things from distant area.
 - B. Enlarging the observed object to its actual size
 - C. Invented by Dutch lens makers in the 16th century
 - D. Allowing the study of cells and microorganisms
3. If an object having a size of 0.0005mm is magnified by the microscope with an eye piece of 10x and by low power objective lens. What would be the magnified size of an object?
 - A. 0.02mm B. 0.005mm C. 0.05mm D. 0.2mm
4. Which statement describes a compound light microscope accurately?
 - A. Contains a single lens
 - B. Uses an electron beam as light source
 - C. Has lightweight and portable to handle
 - D. Incapable of magnifying living cells
5. Which statement correctly explains magnification and resolution in microscope?
 - A. The magnification is the ability to distinguish between two separate points.
 - B. As the wavelength gets smaller, the resolving power is increased.
 - C. Magnification is not limited by resolution.
 - D. Greater magnification always gives more detail.
6. Which statement is **FALSE** about constructing microscope from locally available materials?
 - A. Using appropriate materials
 - B. Following step-wise procedures
 - C. Creating equivalent and similar with a microscope
 - D. Enhancing practical learning

7. Cells that are adapted to carry out a particular body function are:
- A. Embryonic stem cells
 - B. Specialized cells
 - C. Undifferentiated cells
 - D. Unspecialized cells.
8. Which of the following statements is **WRONG** about the rise of cell theory?
- A. Robert Hooke observed cellular compartments.
 - B. Matthias Schleiden and Theodore Schwann introduced an idea of the cell theory.
 - C. Zacharias Janssen and Hans Lipperhey were invented spectacles.
 - D. Anton van Leeuwenhoek advanced microscopic study in the development of cell theory
9. Which of the following organelle is correctly paired with its function?
- A. Mitochondria — Perform photosynthesis
 - B. Lysosome — Link nucleus to membrane
 - C. Ribosomes — Package proteins
 - D. Cytoplasm — Containing organelles
10. Which of the following accurately describes osmosis?
- A. It needs energy for movements of molecules.
 - B. A movement of molecules and water is similar in living organisms.
 - C. It is equally useful to plants and animals.
 - D. It can be demonstrated experimentally in the laboratory.
11. Which of the following statement about nutrients is **FALSE**?
- A. Carbohydrates provide energy
 - B. Lipids are primarily used for disease prevention
 - C. Proteins are important for body building
 - D. Minerals and vitamins serve multiple body functions
12. Which of the following food tests is **INCORRECTLY** matched?
- A. Benedict's test for simple sugars
 - B. Filter paper test for lipids
 - C. Biuret test for proteins
 - D. Emulsion test for starch
13. Which of the following statement about the digestive system is **WRONG**?
- A. The digested food's nutrients are absorbed as small molecules
 - B. Muscular contraction moves food along alimentary canal
 - C. Food moves in various directions after ingestion
 - D. It breaks down food into usable forms
14. Which enzyme is correctly matched to its role?
- A. Maltase → Breaks down proteins
 - B. Lipase → Breaks down carbohydrates
 - C. Trypsin → Breaks down lipids
 - D. Amylase → Breaks down starch

15. Which of the following statements is **NOT** true about nutrient absorption in small intestine?
- A. The lining of the small intestine is specially adapted to allow diffusion.
 - B. The villi have a rich blood supply that carries away the digested food molecules.
 - C. The diffusion distances are very small, and the process takes place in solution.
 - D. The glucose, amino acids, and fatty acid molecules enters directly into the blood.
16. Which option does **NOT** describe a pathological digestive condition?
- A. Reduced bowel motility
 - C. Excessive fluid loos
 - B. Changes in dietary habits
 - D. Enteric bacterial infection
17. What is the importance of breathing in humans?
- A. The body obtains oxygen and removes carbon dioxide.
 - B. Burning of food with oxygen to release energy.
 - C. It circulates blood throughout the body.
 - D. It split food molecules in cells.
18. Which of the following human respiratory organ contains mucus?
- A. Pharynx
 - C. Bronchi
 - B. Trachea
 - D. Alveoli
19. Among the following factors of the breathing, which factor increases lung size?
- A. Smoking
 - C. Physical exercises
 - B. Anxiety
 - D. Drug use
20. During the artificial respiration, which of the following steps comes first?
- A. Check for breathing
 - C. Remove your lips
 - B. Open the airway
 - D. Call loudly for help
21. Which of the following sentiments is **WRONG** about the function of blood vessels?
- A. Veins carry blood to the heart
 - B. Arteries carry blood away from the heart
 - C. Veins transport oxygenated blood
 - D. Blood moves from arteries into capillaries
22. Which of the following blood groups lacks antibody in the plasma?
- A. AB
 - B. B
 - C. O
 - D. A
23. Which component of blood helps to remove waste like urine from the kidneys?
- A. Platelets
 - C. White blood cell
 - B. Red blood cell
 - D. Plasma

24. Which of the following statements is **WRONG** about the human heart?
- A. It is composed of a unique type of cardiac muscle.
 - B. Its right side pumps blood throughout the body.
 - C. Its muscular walls get blood from coronary arteries.
 - D. Its left-hand side wall is thicker than right.
25. All are true about microorganisms **EXCEPT**:
- A. They are tiny living organisms.
 - B. They are important in food production.
 - C. They cause diseases in plants, animals, and humans.
 - D. They can be seen with the naked eye.
26. All are the controlling mechanisms of microorganisms **EXCEPT**:
- A. Sterilization
 - B. Culturing
 - C. Pasteurization
 - D. Disinfectant
27. Which of the following statements is true about tapeworm (*Cestoda*) parasites?
- A. Lives in the liver of their hosts.
 - B. They do feed off their host.
 - C. Absorb nutrients directly across their skin.
 - D. Have simple kinds of digestive systems.
28. All of the following statement are correct about mosquitoes and malaria **EXCEPT**:
- A. Anopheles mosquitoes transmit malaria
 - B. Parasites travel in the respiratory system
 - C. Malaria is caused by *Plasmodium* parasites
 - D. Mosquitoes get parasites by biting infected people.
29. Which of the following statement is correct about the symptoms of Diarrhea?
- A. Continuous shivering and sweating.
 - B. Mild abdominal cramps and pain.
 - C. Feeling nauseous, vomiting or often both.
 - D. Watery diarrhea, which does usually have blood in it.
30. Which of the following statements is true about Chancroid **EXCEPT**:
- A. Caused by the bacterium *Treponema pallidum*.
 - B. More commonly in men than in women.
 - C. Distributed through sexual contact with an infected person.
 - D. Have a risk of exposing to HIV.

31. Which pair of common name and scientific name is **INCORRECT**?
- A. Dog → *Canis familiaris* C. Human being → *Homo sapiens*
 B. Lion → *Panthera leo* D. House fly → *Felies domestica*
32. Which of the following statements correctly describes species?
- A. The groups of organisms that can interbreed with each other.
 B. The smallest lineage with a common set of all traits.
 C. It is not important for classification of organisms.
 D. The different cattle breeds are variants of the different species.
33. All are correct about Kingdom Fungi **EXCEPT**:
- A. Some fungi are parasites, feeding on living organisms.
 B. Fungi attack animals more than plants.
 C. They are usually multicellular and eukaryotic.
 D. Saprophytic fungi usually produce many spores.
34. Which of the following is correct about the kingdom of plants?
- A. Plants have prokaryote cells.
 B. They are predominantly water-dwelling.
 C. Contain both unicellular and multicellular organisms.
 D. Consist of chlorophyll to carry out photosynthesis.
35. Which of the following statements is **INCORRECT** about phylum's of invertebrate animals?
- A. The sponges are the simplest invertebrates do not like animals.
 B. The round worms' body divided into regular segments.
 C. The mollusks include the most intelligent of the invertebrate species.
 D. The Platyhelminthes have flattened bodies with a mouth but no anus.
36. Which of the following is correct about components of an ecosystem?
- A. Autotrophs cannot synthesize their own energy from the raw materials.
 B. Chemoautotrophic organisms release energy from simple light reactions.
 C. Heterotrophs can make food and feed on other organisms.
 D. Decomposers are important in recycling the environment.
37. Which of the following statements is correct about the food chain represented below?
- Grass** —————> **Rabbit** —————> **Flea?**
- A. Grass is a secondary consumer C. Rabbit is a primary consumer
 B. Fleas is at third trophic level D. Rabbit is at first tropic level

38. Which of the following statements is true about the nitrogen cycle?
- A. Green plants absorb nitrogen gas directly.
 - B. Denitrifying bacteria in the soil can actually convert nitrogen gas.
 - C. Legume plants have an important role in the nitrogen cycle.
 - D. Nitrifying bacteria reduce the amount of nitrates in the soil.
39. Which nitrogen cycle process is **MISMATCHED** with its microorganism?
- A. Nitrification → *Azospirillum*
 - B. Denitrification → *Pseudomonas*
 - C. Ammonification → decomposers
 - D. Nitrogen fixation → *Rhizobium*
40. Which of the following phenomena decreases the emission of carbon dioxide to atmosphere in the carbon cycle?
- A. The combustion of petroleum
 - B. Burning of fossil fuel
 - C. Reforestations
 - D. Deforestation
41. How do camouflage and mimicry benefit animals?
- A. By avoiding predators detections
 - B. By facilitating mate attraction
 - C. By enhancing locomotion speeds
 - D. By synthesizing chemical defenses
42. Which of the following statements is true about the external structure of a typical angiosperm?
- A. Roots are an underground stem in that does bear either leaves or buds.
 - B. The shoot system is the aboveground organs with flowers and fruits.
 - C. Shoot system flowers and fruits found depending on the reproductive stage.
 - D. In the root system, node and internode are found in the root cap of angiosperm.
43. All of the followings are correct about the mechanism of photosynthesis **EXCEPT**:
- A. Photosynthesis involves photochemical and enzymatic reactions.
 - B. The photosystem absorb sunlight within a certain range.
 - C. Hydrogen ions directly combine with CO₂ during dark reactions
 - D. Glucose is the immediate product of the light reaction.
44. In plant roots, which structure absorbs water and minerals from the soil?
- A. Root cap
 - B. Root hairs
 - C. Elongation cells
 - D. Vascular villi

45. Which of the following is the importance of transportation in plants?
- A. Regulate the concentration of hormones
 - B. Supporting plant growth and development
 - C. Coordinating physiological processes
 - D. Distributing resources
46. In the case of enzymatic chemical reaction, what do we call the substance that is acted upon by an enzyme?
- A. Coenzyme
 - B. Polypeptide
 - C. Apoenzyme
 - D. Substrate
47. Why can enzymes be reused over and over again? Because:
- A. They are substrate-specific
 - B. They resist pH/temperature changes
 - C. They remain unaltered after reactions
 - D. Their globular shape persists
48. Why do enzymes slow down at high temperatures? Because High temperatures:
- A. alter the active site of the enzyme molecule
 - B. changes the PH value of the systems
 - C. increases the concentration the enzymes
 - D. neutralizes the acids and bases in the system
49. Which main class of enzymes changes the molecular structure of the substrates?
- A. Isomerases
 - B. Lyases
 - C. Transferases
 - D. Ligases
50. The active site of an enzyme is the region that
- A. binds allosteric regulators of the enzyme.
 - B. is involved in the catalytic reaction of the enzyme.
 - C. binds the products of the catalytic reaction.
 - D. is inhibited by the presence of a cofactor.
51. The cofactors that are found in the enzymes include
- A. Coenzymes and mineral ions
 - B. Vitamins and amino acids
 - C. Sugars and iron
 - D. Proteins and lipids
52. What does Lock-and-Key Model of enzymes illustrate?
- A. ATP regeneration
 - B. Coenzyme binding
 - C. Enzyme-substrate specificity
 - D. Inhibition mechanisms
53. Which of the following is a direct benefit of practicing school-based gardening?
- A. Increased dependency on food aid
 - B. Global reduction in soil erosion
 - C. Enhanced local food sustainability
 - D. Expansion of desert regions

54. Select the statement that describes conscious citizen biologists accurately.
- A. They develop traditional and overpriced technologies.
 - B. They develop technologies that reduce waste production.
 - C. They develop technologies that consume more resources.
 - D. They invent technologies that do not incorporate recycling.
55. Which field is unrelated to biotechnology?
- A. Genetic engineering
 - B. Vaccine development
 - C. Crop improvement
 - D. Fossil dating
56. Which of the followings is the application of biology in mining activities?
- A. Solid waste treatment
 - B. Biohydrometallurgy
 - C. Use of biosensor and forensic science
 - D. Bioremediation and biogas production
57. Which characteristic is common to both archaeobacteria and eubacteria?
- A. Absence of peptidoglycan in their cell walls
 - B. The presence of Branched membrane lipids
 - C. Lack of membrane bounded organelles
 - D. The ability to Survive in extremely environment
58. Which feature is unique to gram-positive bacteria (not gram-negative)?
- A. Thicker peptidoglycan layer
 - B. Lower antibiotic resistance
 - C. Outer membrane presence
 - D. Causation of treatable diseases
59. Which following genus of fungus produces liver-damaging chemical called aflatoxin?
- A. *Trichophyton*
 - B. *Candida*
 - C. *Microsporum*
 - D. *Aspergillus*
60. Which one of the following is the significant contribution of normal microbiota to health?
- A. Directly causing diseases like cholera
 - B. Rapidly mutating their genetic material
 - C. Creating enzyme Lysozyme for cellular synthesis
 - D. Protection against pathogens
61. What is the defining feature of icosahedral symmetry in viruses?
- A. Features 20 equilateral triangular faces and 12 vertices
 - B. Complex components differentiating from other groups
 - C. Identical protein subunits assembled in a helical structure around the genome
 - D. Contains a flexible lipid bilayer envelope

The following information indicates steps when HIV infects its host cell in human body.

- I. Conversion of viral RNA into DNA and Replication of viral DNA
- II. The binding of gp120 of HIV with CD4 of T- Lymphocyte
- III. Viral DNA reversely transcribed to viral RNA and production of proteins
- IV. Insertion of its RNA and reverse transcriptase enzyme in to the host cell
- V. Release of HIV from host cell by lysis or exocytosis
- VI. Assemblage of new viral RNA with protean coats and enzymes

62. From the information listed above, the logical order of the steps (beginning to the end) can be:-

- A. V, VI, I, III, IV, II
- B. II, IV, I, III, VI, V
- C. IV, V, I, II, III, VI
- D. VI, III, I, II, V, IV

63. Which one of the following disease is correctly paired with its causive agent?

- A. Giardiasis - *Entamoeba histolytica*
- B. Malaria - *Toxoplasma gondii*
- C. Leishmaniasis - *Trichomonas vaginalis*
- D. Africa sleeping sickness - *Trypanosoma brucei*

64. Which one of the following happens in light-independent reactions of photosynthesis?

- A. Change solar energy to chemical energy
- B. Splitting of water into oxygen and hydrogen
- C. Carbon Fixation
- D. Generating ATP

65. How do spongy and palisade mesophyll cells differ structurally?

- A. Palisade cells are tightly packed, while spongy cells are loosely arranged.
- B. Palisade cells lack chloroplasts, while spongy cells are rich in chloroplasts.
- C. Spongy cells form a protective layer, while palisade cells do not.
- D. Spongy cells are elongated, while palisade cells are irregular.

66. What distinguishes cyclic from noncyclic photophosphorylation?

- A. They use different electron acceptors
- B. Noncyclic photophosphorylation occurs in the stroma
- C. Only photosystem I is involved during the cyclic process
- D. Noncyclic photophosphorylation does not produce ATP

67. Under which environmental condition C 4 plants are more advantageous than C3 plants?

- A. High humidity
- B. High temperature
- C. High CO₂ concentration
- D. Low light intensity

68. How many net ATP molecules are produced when a cell breaks five glucose molecules aerobically?

- A. 40
- B. 36
- C. 180
- D. 200

69. Which statement best compares aerobic and anaerobic respiration?
- Aerobic uses oxygen and yields more energy
 - Only aerobic respiration occurs in bacteria
 - Anaerobic respiration produces more ATP than aerobic
 - Anaerobic requires mitochondria
70. Which one of the following is true about substrate level phosphorylation?
- It includes Electron Transport Chain reaction and Chemiosmosis
 - It is catalysed by ATP synthases enzyme
 - It depends on proton passing through rotor spin of ATP synthases
 - It produces a small amount of ATP than oxidative level phosphorylation
71. During which stages of aerobic respiration is CO₂ released?
- Electron transport chain and Krebs cycle
 - Link reaction and Chemiosmosis
 - Krebs cycle and Link reaction
 - Glycolysis and Link reaction
72. Why is the inner mitochondrial membrane folded?
- Increasing the surface area for electron transport reaction
 - Increasing the photosynthesis capacity of the cell
 - Spending up the loss of CO₂ during fermentation
 - Spending up the process of glycolysis
73. What are the end products of sugar fermentation by yeast?
- lactic acid, Carbon dioxide, 2ATP
 - Alcohol, CO₂, & 2ATP
 - CO₂, H₂O, & 36ATP
 - Alcohol, CO₂, 36ATP
74. What is the first molecule formed when Acetyl CoA combines with oxaloacetate in fluid matrix of mitochondria?
- Citrate
 - Malate
 - Isocitrate
 - Succinate
75. Why are mutations significant in evolution?
- Eliminate diversity
 - Introduce new genetic variation
 - Always produce harmful traits
 - Cause immediate extinction
76. Among the theories about the origin of life, which theory supports the concept; all living things arise from non-living things by free cell formation?
- Biochemical origin theory
 - Special creationism theory
 - Cosmozoan theory
 - Spontaneous generation theory

77. Why Stanley Miller excluded free oxygen from the mixture of the gases that used for his simulation experiment? Because:
- A. Primitive atmosphere was reducing.
 - B. Early organic molecules did not contain oxygen.
 - C. Oxygen cannot react with the rest of the gases.
 - D. The primitive atmosphere was full of oxygen.
78. Which of the following is related to the theory of Lamarck?
- A. Evolution is the result of struggle for existence
 - B. If not controlled, human population growth exceed food supply
 - C. Evolution is based on the use and disuse of body parts
 - D. Individuals in a species show variation in their characteristics
79. Suppose some palms survive better in volcanic acidic soils whereas others perform better in calcareous basic soils but not in intermediate soil. Which type of natural selection act on these palm plants?
- A. Directional selection
 - B. Stabilizing selection
 - C. Disruptive selection
 - D. Divergent evolution
80. The most apparent change during the evolutionary history of Homo sapiens is traced in:
- A. Remarkable increase in the brain size
 - B. Loss of body hair
 - C. Walking upright
 - D. Shortage of jaws
81. A radioactive substance initially weighed 5600 grams. It its half – life is 100 years and only 175 grams remain, for how many years has the substance been undergoing radioactive decay?
- A. 300 years
 - B. 200 years
 - C. 100 years
 - D. 500 years
82. A large population of wildcats is broken up in to several small groups as a result of geographical isolation. After a long period of time those groups develops to different evolutionary lines. This type of isolation is:
- A. Allopatric speciation
 - B. Temporal speciation
 - C. Seasonal speciation
 - D. Behavioral speciation
83. Which of the following pair shows analogous structures?
- A. Human arm – Donkey leg
 - B. Frog leg – Bat wing
 - C. Bat wing – Bird wing
 - D. Butterfly wing – Bird wing

84. What structures constitute the central nervous system?
- A. Sensory and Motor nerve C. Spinal nerve and cranial nerves
 - B. Brain and Spinal cord. D. Brain and Back bone
85. One of the following indicates the correct path of light through the eye during sense of sight.
- A. Cornea → aqueous humor → pupil → lens → vitreous humor → retina
 - B. Cornea → vitreous humor → pupil → lens → aqueous humor → retina
 - C. Pupil → aqueous humor → cornea → lens → vitreous humor → retina
 - D. Retina → aqueous humor → pupil → cornea → vitreous humor → lens
86. What happens when excess light enters the eye?
- A. The lens will change its shape C. The iris will constrict
 - B. The cornea will expand D. The retina will alter its gain
87. Which human eye part is **INCORRECTLY** matched with its function?
- A. Iris → controlling the amount of light reaching the retina.
 - B. Sclera → focus light on the retina.
 - C. Cones → respond to colors and give very clear, defined images.
 - D. Lachrymal gland → kill pathogens and lubricate the eye.
88. Which of the following is **NOT** part of a neuron?
- A. Synapse B. Axon C. Cell body D. dendrite
89. Which ions maintain a neuron's resting potential?
- A. Lead and Calcium ions C. Calcium and Phosphate ions
 - B. Sodium and Potassium ions D. Potassium and Phosphate ions
90. Which brain region regulates body temperature and metabolism?
- A. Hypothalamus B. Midbrain C. Corpus callosum D. Cerebellum
91. Suppose a person takes unknown drug that causing restlessness and see things that do not exist.
So this drug is most probably:
- A. Stimulants B. Depressants C. Hallucinogen D. Pain killer
92. From the following cells in skin epidermis one is very important for making up hair, nails, and the surface layer of the skin.
- A. Meissner's corpuscle cells C. Keratinocytes cells
 - B. Melanocyte cells D. Langerhans cells
93. Tiny bumps on upper surface of tongue that gives its rough texture and covered by taste buds is
- A. Papillae B. Mucosa C. Salivary gland D. Frenum

94. Which one of the following hormone from pituitary gland is correctly matched with its function?
- A. Thyroid stimulating hormone (TSH)----stimulate the growth of children
 - B. Follicle stimulating hormone (FSH)--stimulate mammary gland for milk production
 - C. Luteinizing hormone (LH)---- stimulating egg and sperm maturation
 - D. Oxytocin hormone(OH) ----- stimulating uterine contraction in labor and child birth
95. How does the body reduce heat loss in cold conditions?
- A. Vasodilation B. Vasoconstriction C. Sweating D. Piloerection
96. Which of the following structure is **NOT** part of a nephron?
- A. Bowman's capsule C. Ureter
 - B. Loop of Henle D. First convoluted tubule
97. All of these are anthropogenic cause of climate change **EXCEPT**:
- A. Burning fossil fuels C. Livestock farming
 - B. Deforestation D. Volcanic eruptions
98. Which greenhouse gas is **INCORRECTLY** paired with its source?
- A. Nitrous oxide – cattle digestion C. Carbon dioxide – fossil fuel combustion
 - B. Methane – rice paddies D. Hydrofluorocarbons – semiconductor manufacturing
99. Global warming will cause all of the following direct problem **EXCEPT**:
- A. Shrinking of glaciers C. Raising of sea level
 - B. Economic crisis D. Increasing temperature of atmosphere
100. Which long-lived components of greenhouse gas is the main cause of global warming?
- A. Carbon dioxide B. Methane C. Sulphur hexafluoride D. Perfluorocarbons

THE END

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ANSWER SHEET

Student Name----- **Sec.**----- **ID**-----

N _o		N _o		N _o		N _o		N _o	
1		21		41		61		81	
2		22		42		62		82	
3		23		43		63		83	
4		24		44		64		84	
5		25		45		65		85	
6		26		46		66		86	
7		27		47		67		87	
8		28		48		68		88	
9		29		49		69		89	
10		30		50		70		90	
11		31		51		71		91	
12		32		52		72		92	
13		33		53		73		93	
14		34		54		74		94	
15		35		55		75		95	
16		36		56		76		96	
17		37		57		77		97	
18		38		58		78		98	
19		39		59		79		99	
20		40		60		80		100	