

NETA NETA_2 Exam Flashcards | NETA_2 Actual Questions

SOLUTIONS

TEST - 1 : 11th MINOR TEST

1. (3) : Mayr contributed significantly to the conceptual revolution that led to the modern evolutionary synthesis of Darwinian evolution. So, he is known as the Darwin of the 20th century.

Hence, the correct answer is Ernst Mayr.

2. (4) : The phylogenetic method of classification is based on evolutionary history of organisms. It groups organisms according to their common ancestors and evolutionary relationships, often represented in the form of a phylogenetic tree. Unlike artificial systems that classify based on a few selected traits, or natural systems that use a broader range of morphological features, the phylogenetic system reflects how species have evolved over time and diverged from common ancestors. Therefore, this method provides a more accurate understanding of the evolutionary connections between organisms.

3. (3) : Fertilisation in *Marchantia* occurs in water.

The antherozoids are released into the water, where they swim and reach the archegonium. An antherozoid fuses with the egg to produce the zygote.

Thus, an external layer of water is essential for the swimming of male gametes to the archegonia.

4. (3) : In bacteria, the genetic material is present as a single circular double-stranded DNA molecule. Unlike eukaryotes, bacterial DNA is not associated with histone proteins, though some non-histone proteins help in packaging.

5. (4) : In pteridophytes, heterospory the production of two different types of spores: microspores (male) and megaspores (female) is considered an important evolutionary step and a precursor to the seed habit. This differentiation allows for the development of male and female gametophytes within the protection of spore walls and eventually leads to retention and nourishment of the female gametophyte within the megaspore, similar to what occurs in seed bearing plants. This condition sets the stage for the evolution of seeds, where fertilization and early development of the embryo occur inside the parent plant.

6. (2) : (a) Poales - Order: Correct. Poales is an order of flowering plants that includes grasses, sedges, and bromeliads.

(b) Hominidae - Class: Incorrect. Hominidae is a family, not a class. It includes great apes and humans.

(c) Arthropoda - Phylum: Correct. Arthropoda is a phylum that includes insects, crustaceans, and arachnids.

(d) Diptera - Family: Incorrect. Diptera is an order, not a family. It includes flies and mosquitoes.

(e) Angiospermae - Division: Correct. Angiospermae is a division (or phylum) that includes flowering plants.

7. (4) : All chordates are divided into three subphylum - Urochordata, Cephalochordata and Vertebrata. In subphylum Vertebrata, notochord is replaced by bony or cartilaginous vertebral column in adults. Therefore,

all vertebrates are chordates but all chordates are not vertebrates.

8. (1) : In the taxonomic hierarchy, species is the lowest and most specific category. It represents a group of individuals that are capable of interbreeding and producing fertile offspring.

9. (1) : *Selaginella* and *Salvinia* are heterosporous pteridophytes, which means that they produce two different kinds of spores. Due to this, the formation of seeds, or the seed habit, is the most significant step towards sexual reproduction and evolution. *Psilotum*, *Lycopodium*, and *Equisetum* are homosporous pteridophytes.

10. (3) : In *Euglena*, pigments are found in plastids, specifically chloroplasts. These chloroplasts contain chlorophyll *a* and *b*, as well as carotenoids, which help in photosynthesis. *Euglena* is a unique organism that shows both plant-like (photosynthetic) and animal-like (motile) characteristics. The presence of pigmented plastids enables it to perform photosynthesis in the presence of light, making it autotrophic. Therefore, the pigments responsible for its photosynthetic ability are located in the plastids.

11. (1) : *Saccharomyces* is not a prokaryote as it is a fungus and hence a eukaryote. They have a well-defined nucleus and membrane-bound organelles. Their cell structure is more complicated than a prokaryotic cell. *Nostoc* and *Oscillatoria* are cyanobacteria; they are a group of photosynthetic and nitrogen-fixing bacteria, and *Mycobacterium* comes under true bacteria. Therefore, *Nostoc*, *Oscillatoria*, and *Mycobacterium* are prokaryotes.

12. (2) : Male gametes are flagellated in *Ectocarpus* (Phaeophyceae). The flagella of male gametes play an important role in establishing initial sexual contact with the female gamete. However, in *Ectocarpus* the female gamete is also flagellated but is different in structure. In *Polysiphonia* (Rhodophyceae) flagellated gametes are not observed. In *Anabaena*, sexual reproduction through gametes is absent while in *Spirogyra* sexual reproduction takes place by conjugation wherein male gamete passes through a tube to the adjacent filament. The male gametes here are non-flagellated and show amoeboid movement.

13. (4) : Virus is a non-cellular, highly infectious agent that multiplies only intracellularly inside living host cells without involving growth and division. They are regarded as intermediate between non-living entities and living organisms. Viruses did not find a place in classification since they are not considered truly 'living'. They do not belong to any kingdom.

14. (2) : As we go higher from species to kingdom, the number of common characters goes on decreasing. Lower the taxa, more are the characteristics which the members within the taxon share. Polymoniales, Poales and Sapindales represent orders, while the other group belongs to family, genus and species. Since, order is a higher taxonomic category, it has less similarities than family, genus and species.



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Section	Weight	Objectives
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Topic 1: Documentation and Reporting	10-15%	- Reports and Certification • 1. NRTL Certification Requirements • 2. Test Report Writing - Test Documentation • 1. Data Recording Procedures • 2. Test Results Interpretation - NFPA 70E Electrical Safety • 1. energized Work Permits • 2. Arc Flash Hazard Analysis - IEEE Testing Standards
Topic 2: Testing Procedures and Standards	25-30%	• 1. IEEE 4 High-Voltage Testing • 2. IEEE 62.45 Low-Voltage Testing - NETA Maintenance Testing Specifications • 1. Acceptance Testing Standards • 2. Electrical Testing Procedures • 3. Visual Inspection Procedures - Electrical Safety Principles • 1. Lockout/Tagout Procedures • 2. Arc Flash Safety • 3. Personal Protective Equipment
Topic 3: Electrical Theory and Fundamentals	15-20%	- AC/DC Circuit Analysis • 1. Three-Phase Systems • 2. Series and Parallel Circuits • 3. Ohm's Law and Power Calculations • 4. Kirchhoff's Laws - Relay Testing Equipment • 1. Protective Relay Testers - Voltmeters and Ammeters • 1. Digital Multimeters • 2. Clamp Meters - Grounding and Bonding Testers
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- Protective Devices Testing

- 1. Coordination Studies
- 2. Overcurrent Relay Tests

- Conductors and Cables Testing

- 1. Hi-Pot Tests
- 2. Insulation Resistance Tests
- 3. Continuity Tests

Topic 5: Component Testing

20-25% - Switchgear Testing

- 1. Contact Resistance Tests
- 2. Circuit Breaker Timing Tests
- 3. Dielectric Withstand Tests

- Transformers Testing

- 1. Turns Ratio Tests
- 2. Winding Resistance Tests
- 3. Excitation Current Tests

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NETA Level 2 Certified Assistant Electrical Testing Specialist Sample Questions (Q77-Q82):

NEW QUESTION # 77

To reverse the direction of rotation of a three-phase induction motor, which action is required?

- A. Reverse the neutral conductor
- B. Reverse the control circuit polarity
- C. Reverse any two phase conductors
- D. Reverse all three phase conductors

Answer: C

Explanation:

The direction of rotation of a three-phase motor is determined by the phase sequence of the supply voltage.

Reversing any two phase conductors changes the phase sequence, which reverses the rotating magnetic field in the stator and therefore reverses motor rotation.

NETA Level 2 technicians frequently verify motor rotation during commissioning and after maintenance.

Understanding phase rotation is essential when performing bump tests, troubleshooting incorrect rotation, or verifying wiring after motor replacement. Reversing all three phases would preserve the original phase sequence and would not change rotation.

NEW QUESTION # 78

A control contact that includes one normally open (NO) contact and one normally closed (NC) contact operated by a single actuator is classified as which contact form?

- A. Form A
- B. Form C
- C. Form B

- D. Form D

Answer: B

Explanation:

Control contacts are categorized by their functional behavior and internal configuration. A Form C contact consists of one normally open (NO) and one normally closed (NC) contact that share a common movable contact and operate together. When the actuator changes state, one contact opens while the other closes.

This configuration is commonly used in control circuits where a change of state must simultaneously initiate one function and terminate another, such as interlocking schemes, status indication, and control logic. NETA Level 2 technicians frequently encounter Form C contacts in relays, auxiliary switches on circuit breakers, and motor control equipment.

Form A contacts are normally open only, while Form B contacts are normally closed only. Form C provides greater flexibility and is widely used in protection and control systems. Correct identification of contact forms is critical during continuity testing, functional verification, and troubleshooting of control circuits.

NEW QUESTION # 79

Determine the RMS voltage of a sinusoidal waveform displayed on an oscilloscope showing 0.45 V peak with a vertical sensitivity of 0.2 V/division.

- A. 0.32 V
- B. 0.64 V
- C. 0.20 V
- D. 0.45 V

Answer: A

Explanation:

RMS voltage for a sine wave equals peak voltage divided by $\sqrt{2}$:

$$V_{RMS} = 0.45 \div 1.414 = 0.32 \text{ V}$$

NETA Level 2 technicians must understand RMS values because most electrical measurements and equipment ratings are based on RMS quantities, not peak values.

NEW QUESTION # 80

On an electrical schematic, a dot on a current transformer symbol indicates:

- A. Burden rating
- B. Metering accuracy class
- C. Grounded side
- D. Polarity

Answer: D

Explanation:

The dot convention indicates polarity, showing the instantaneous current direction relationship between primary and secondary windings. Correct polarity is critical for protection schemes, differential relays, and metering accuracy. NETA Level 2 technicians must verify CT polarity during installation and commissioning to ensure correct relay operation.

NEW QUESTION # 81

What is the distance between points (3,5) and (4,5) on a rectangular coordinate grid?

- A. 0
- B. 1
- C. 2
- D. 3

Answer: C

Explanation:

The distance between two points with the same y-coordinate is the absolute difference in their x-coordinates.

$|4 - 3| = 1$. NETA Level 2 technicians must demonstrate basic math skills for interpreting diagrams, test plots, and graphical data.

NEW QUESTION # 82

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