

# SSC JE PREVIOUS YEAR QUESTION PAPER

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### SSC JE Previous Year Question Paper: Key Questions and Answers

The Staff Selection Commission (SSC) conducts the Junior Engineer (JE) examination to recruit engineers in various fields for government departments. To help candidates prepare for this competitive exam, it is crucial to solve previous year question papers. Here are some key questions from previous SSC JE papers and their answers:

#### Paragraph 1: General Engineering

- **Question:** Determine the bending moment at the center of a simply supported beam of length  $L$  carrying a uniformly distributed load  $w$ .
- **Answer:**  $wL^2/8$
- **Question:** Calculate the shear stress at the extreme fibers of a solid circular shaft of diameter  $d$ , subjected to a torque  $T$ .
- **Answer:**  $16T/(\pi d^3)$

#### Paragraph 2: Civil Engineering

- **Question:** A beam of cross-section 150mm wide x 200mm deep is subjected to a bending moment of 150kNm. Determine the maximum bending stress in the beam.
- **Answer:** 16.67 MPa
- **Question:** Design a reinforced concrete column to carry an axial load of 1000 kN. Assume  $f_c = 20$  MPa,  $f_y = 400$  MPa, cover = 40mm.
- **Answer:** Column size: 300mm x 300mm, 4-16mm diameter bars vertically, 8mm diameter stirrups at 150mm spacing

### Paragraph 3: Mechanical Engineering

- **Question:** Calculate the discharge through a nozzle of diameter  $d$ , if the pressure head is  $H$ .
- **Answer:**  $C_d A \sqrt{2gH}$
- **Question:** A single-acting reciprocating pump has a piston diameter of 100mm and a stroke of 200mm. The pump runs at 100 rpm. Determine the theoretical discharge of the pump.
- **Answer:** 0.126 m<sup>3</sup>/min

### Paragraph 4: Electrical Engineering

- **Question:** A transformer has 100 turns on the primary and 200 turns on the secondary. If the primary voltage is 220V, calculate the secondary voltage.

- **Answer:** 440V
- **Question:** Determine the power factor of a circuit with a resistance of 10 ohms, an inductance of 5mH, and a capacitance of  $10\mu\text{F}$ , connected in series to a 220V AC power supply.
- **Answer:** 0.92 (lagging)

### Paragraph 5: General Awareness

- **Question:** Who is the current Prime Minister of India?
- **Answer:** Narendra Modi
- **Question:** What is the capital of the state of Odisha?
- **Answer:** Bhubaneswar

Solving these questions will not only provide candidates with a glimpse of the exam pattern but also improve their problem-solving skills and build their confidence. It is recommended that candidates refer to multiple previous year papers to gain a comprehensive understanding of the topics tested in the SSC JE examination.

### Unit 2: Microeconomics

#### Lesson 2: Activity 12

##### Question 1:

What is the difference between a normal good and an inferior good?

**Answer:**

A normal good is a good that is demanded more as income increases, while an inferior good is a good that is demanded less as income increases.

**Question 2:**

Give an example of a normal good and an inferior good.

**Answer:**

- Normal good: A car
- Inferior good: Instant noodles

**Question 3:**

What is the income effect and the substitution effect?

**Answer:**

- **Income effect:** The change in demand for a good due to a change in income.
- **Substitution effect:** The change in demand for a good due to a change in its relative price.

**Question 4:**

How does the income effect and substitution effect interact for a normal good?

**Answer:**

For a normal good, the income effect is positive (demand increases) and the substitution effect is negative (demand decreases). However, the income effect is typically stronger, so the overall effect is an increase in demand.

**Question 5:**

How does the income effect and substitution effect interact for an inferior good?

**Answer:**

For an inferior good, the income effect is negative (demand decreases) and the substitution effect is positive (demand increases). However, the income effect is typically stronger, so the overall effect is a decrease in demand.

## **Textbook of Biochemistry with Clinical Correlations, 7th Edition: A Comprehensive Guide**

The "Textbook of Biochemistry with Clinical Correlations, 7th Edition" by Thomas M. Devlin is a comprehensive textbook that provides a deep understanding of the fundamental principles of biochemistry and its clinical applications. This article delves into some frequently asked questions about the textbook to guide readers interested in its contents.

### **1. What are the key features of the 7th edition?**

The 7th edition has been updated with the latest advancements in biochemistry, including insights into gene regulation, biotechnology, and protein structure. It includes new chapters on epigenetics, translational control, and cancer metabolism. The textbook also features clinically oriented end-of-chapter questions and case studies to reinforce understanding.

### **2. How does the textbook integrate clinical correlations?**

Throughout the textbook, clinical vignettes and case studies are seamlessly woven into the discussion of biochemical concepts. These correlations help readers connect the theoretical framework to real-world medical applications, making the subject matter more engaging and relevant.

### **3. What are the strengths of the Textbook of Biochemistry with Clinical Correlations?**

The textbook excels in its clarity of writing, making complex biochemical concepts understandable to students with diverse backgrounds. It offers a balanced approach that focuses on both fundamental biochemistry and its clinical significance. The comprehensive coverage of topics ensures a thorough understanding.

### **4. How can I access the ebook version?**

The ebook version of the "Textbook of Biochemistry with Clinical Correlations, 7th Edition" is available through various platforms such as Amazon Kindle, Google Play Books, and VitalSource. The ebook provides the same content as the physical textbook with interactive features like note-taking, highlighting, and bookmarks.

### **5. Is the textbook suitable for both undergraduate and graduate students?**

The Textbook of Biochemistry with Clinical Correlations, 7th Edition is primarily designed for undergraduate students in biochemistry, biology, and related fields. However, it can also serve as a valuable resource for graduate students and medical professionals seeking a comprehensive understanding of fundamental biochemistry and its clinical implications.

**How to unlock Long Sword mhnw?** To unlock the Great Sword, Dual Blades, and Lance, complete the first stage of "Chapter 2: Shimmering Swamp" in the main story. To unlock the Bow, Hammer, Light Bowgun, and Long Sword, reach Hunter Rank 15. Finally, weapons added in seasons (Dual Blades, Lance, Charge Blade, Gunblade), will be available automatically.

**Is katana a Long Sword in MHW?** Long Swords are very fast compared to Great Swords and can land hits much faster. Attacks can be chained together very easily. For example, triangle, triangle, circle, triangle is loop-able and helps fill the spirit bar very quickly. Long Swords have 2 main branches, Bone and Iron Katana.

**What weapons are in Monster Hunter Portable 3rd?** 12 weapons in total, including the Switch Axe from Monster Hunter 3. Great Sword, Long Sword, Sword & Shield, Dual Swords, Hammer, Hunting Horn, Lance, Gunlance, Switch Axe, Light Bowgun, Heavy Bowgun, Bow.

**How to unlock Long Sword mh tri?**

**How do you get the goddess longsword?** After completing the Ancient Cistern dungeon, the Goddess Sword is imbued with courage by Farore's Flame, making it longer and dealing twice the damage. It also lets you charge a Skyward Strike faster. This sword is called the Goddess Longsword.

**How do you get an infinite sword?**

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**What is the most powerful long sword in MHW?** 1 Fatalis Zaggespanon The good news is that the best Long Sword in Monster Hunter World: Iceborne is the Fatalis Zaggespanon, with 1155 base Attack power, 150 Dragon power, and Sharpness stretching up to Purple-level.

**Which is better katana or longsword?** The answer really depends on the situation. If you need a fast and agile weapon for cutting and slicing, the katana may be the better choice. However, if you need a weapon that is better suited for thrusting and parrying, the longsword may be the way to go.

**What is the best sword in Monster Hunter World?**

**What is the most broken weapon in Monster Hunter?** Dual Blades are arguably the most powerful weapon type in the game. Similar to Long Swords, Dual Blades charge up attacks to enter Demon Mode, which raises the attack damage through longer combo chains. Raising these levels lets the player enter Archdemon Mode, which boosts even higher.

**What is the easiest weapon in Monster Hunter 3 Ultimate?** Sword & Shield: An excellent beginner weapon and arguably one of the most balanced and versatile. It is a small sword accompanied by a shield that allows a hunter to block most attacks.

**What is the most used weapon in Monster Hunter?** The 14 weapon types in the game have been ranked by their respective number of users. In first place is the beloved long sword.

**How do you unlock triple Katana?**

**What is a great sword in Monster Hunter now?** A weapon of raw power. Charge up your attacks to unleash devastating slashes! The more you charge, the stronger it gets!

**How to get long sword monster hunter now?**

**How do you get the long sword in Blox fruit?** Obtainment. This sword can be obtained after defeating Diamond, who is located on the sunflower-covered hill with a giant tree in the Kingdom of Rose, Second Sea.

**How do you get the gronk sword?** Gronk's Sword is a high-tier sword that can be crafted from a Sword hilt, a Sword blade, and 10 dark oak wood at an Anvil or dropped from Gronk. The hilt and the blade drop from Gronk (and rarely Goblins) and are considered rare items. There is also a 2.5% chance for the entire sword to drop from defeating Gronk.

**How do you unlock the long bow?**

**How do you get the big Bertha sword?** Big Bertha is obtained by defeating a variety of bosses found not only in the Overworld but also in other dimensions. It is crafted using 3 separately constructed items: The handle, the guard, and the blade.

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