

# JPSC AE

## ***MAINS CONVENTIONAL***

- **Start- 25 Sep 2021**
- **Duration- 250-300 Hours**
- **Validity- Till The Exam**

**Offer**

~~1999/-~~ **1100/-**



[www.everexam.org](http://www.everexam.org)



8595517959, 7827455078



# UPSSSC JE

**RECORDED  
QUESTION PRACTICE BATCH**

- 👉 **Start- 22 Sep 2021**
- 👉 **Validity- Till The Exam**
- 👉 **Enroll Now**

**At Just**

**355/-**



[www.everexam.org](http://www.everexam.org)



8595517959, 7827455078

# BPSC AE 2021

– **Crash Course** –

- **150+ HRS**
- **Start 15 August 2021**
- **Validity Till The Exam**

*At Just*

**555/-**



TELEGRAM CHANNEL **EVEREXAM TECH**



**DOWNLOAD EVEREXAM APP**



# GPSC AE 2021

## — Crash Course —

- **150+ HRS**
- **Start 15 August 2021**
- **Validity Till The Exam**



**At Just**  
**555/-**

**ANY QUERIES JUST CALL NOW 8595517959 | [www.everexam.org](http://www.everexam.org)**



# UPPSC AE

—RECORDED BATCH—

- ✓ **START - 14 AUGUST 2021**
- ✓ **VALIDITY - TILL THE EXAM**
- ✓ **DURATION - 250+ HOURS**
- ✓ **ENROLL NOW**

*At Just*

**1491/-**



[www.everexam.org](http://www.everexam.org)

Any Queries Just Call Now **8595517959**



# SSC JE PRE 2021

## Civil Engineering

- Start Date **15 June 2021**
- Duration **400+hours**
- Validity **6 Months**
- Live Online **Classes**

₹ **2199/-**



TELEGRAM CHANNEL **EVEREXAM TECH**

DOWNLOAD **EVEREXAM APP**





# UPSSSC JE

## CRASH COURSE

 **START**  
**10 AUGUST 2021**

 **VALIDITY**  
**TILL THE EXAM**

 **DURATION**  
**120+HOURS**

*At Just*  
**502/-**

**ANY QUERIES JUST CALL NOW 8595517959**



# UPSSSC JE

**RECORDED BATCH**

**START**  
29 JULY 2021

**VALIDITY**  
TILL THE EXAM

**DURATION**  
400+ HOURS

*At Just*  
**1199/-**

**DOWNLOAD EVEREXAM APP**



GET IT ON  
Google Play



**131. A beam curved in plan is designed for**

- a. Bending moment and shear**
- b. Bending moment and torsion**
- c. Shear and torsion**
- d. Bending moment, shear and torsion**

**132. In a spherical dome subjected to concentrated load at crown or uniformly distributed load, the meridional force is always**

- a. Zero
- b. Tensile
- c. Compressive
- d. Tensile or compressive

## 133. Sinking of an intermediate support of a continuous beam

- i. Reduces the negative moment at support
- ii. Increases the negative moment at support
- iii. Reduces the positive moment at centre of span
- iv. Increases the positive moment at centre of span

The correct answer is

- a. (i) and (iii)
- b. (i) and (iv)
- c. (ii) and (iii)
- d. (ii) and (iv)

**134. The maximum value of hoop compression in a dome is given by**

- a.  $wR / 4d$
- b.  $wR / 2d$
- c.  $wR / d$
- d.  $2wR / d$

**Where,  $w$  = load per unit area of surface of dome**

**$R$  = radius of curvature**

**$d$  = thickness of dome**

**135. In a spherical dome the hoop stress due to a concentrated load at crown is**

- a. Compressive everywhere
- b. Tensile everywhere
- c. Partly compressive and partly tensile
- d. zero

**136. In a ring beam subjected to uniformly distributed load**

- a. Shear force at mid span is zero
- b. Shear force at mid span is zero maximum
- c. Torsion at mid span is zero
- d. Torsion at mid span is zero maximum

**The correct answer is**

- a. (i) and (iii)
- b. (i) and (iv)
- c. (ii) and (iii)
- d. (ii) and (iv)

## 137. In prestressed concrete

- a. Force of tension and compression change but lever arm remains unchanged
- b. Force of tension and compressions remain unchanged but lever arm changes with the moment
- c. Both forces of tension and compression as well as lever arm change
- d. Both forces of tension and compression as well as lever arm remain unchanged

**138. The purpose of reinforcement in prestressed concrete is**

- a. To provide adequate bond stress**
- b. To resist tensile stresses**
- c. To impart initial compressive stress in concrete**
- d. All of the above**



**139. Normally prestressing wires are arranged in the**

- a. Upper part of the beam
- b. Lower part of the beam
- c. Centre
- d. anywhere

**140. Most common method of prestressing used for factory production is**

- a. Long line method
- b. Freyssinet system
- c. Magnel - blaton system
- d. Lee – macall system

## 141. Select the incorrect statement

- a. The loss of prestress is more in pretensioning system than in postensioning system
- b. Postensioning system has greater certainty about its durability
- c. For heavy loads large spans in buildings or bridges, post-tensioning system is cheaper than prestensioning system
- d. None of the above

**142. Which of the following losses of prestress occurs only in pretensioning and not in post-tensioning**

- a. Elastic shortening of concrete
- b. Shrinkage of concrete
- c. Creep of concrete
- d. Loss due to friction

## 143. Prestress loss due to friction occurs

- a. Only in post-tensioned beams
- b. Only in pretensioned beams
- c. In both post-tensioned and pretensioned beams
- d. None of the above

**144. The coefficient of shrinkage for high grade concrete for pretensioned work is**

a.  $3 \times 10^4$

b.  $3 \times 10^4$

c.  $\frac{3 \times 10^{-2}}{\log_{10}(T+2)}$

d.  $\frac{3 \times 10^{-4}}{\log_{10}(T+2)}$

**Where T is the age of concrete in days at prestressing**

**145. Which of the following has high tensile strength**

- a. Plan hot rolled wires
- b. Cold drawn wires
- c. Heat treated rolled wires
- d. All have same tensile strength

## 146. High carbon content in the steel causes

- a. Decrease in tensile strength but increase in ductility
- b. Decrease in tensile strength but decrease in ductility
- c. Decrease in both tensile strength and ductility
- d. Increase in both tensile strength and ductility



## 147. Stress strain curve of high tensile steel

- a. Has a definite yield point
- b. Does not show definite yield point but yield point is defined by 0.1 % proof stress
- c. Does not show definite yield point but yield point is defined by 0.2 % proof stress
- d. Does not show definite yield point but yield point is defined by 2 % proof stress

## 148. Select the correct statement

- a. Elastic modulus of high tensile steel is nearly the same as that of mild steel.
- b. Elastic modulus of high tensile steel is more than that of mild steel.
- c. Carbon percentage in high carbon steel is less than that in mild steel.
- d. High tensile steel is cheaper than mild steel.

**149. Cube strength of controlled concrete to be used for pretensioned and post-tensioned work respectively should not be less than**

- a. 35 Mpa and 42 Mpa
- b. 42 Mpa and 35 Mpa
- c. 42 Mpa and 53 Mpa
- d. 53 Mpa and 42 Mpa

## 150. Ultimate strength of cold drawn high steel wires

- a. Increases with increase in diameter of bar
- b. Decreases with increase in diameter of bar
- c. Does not depends on diameter of bar
- d. None of the above

**151. Prestressing losses in post-tensioned and pretensioned beams are respectively**

- a. 15 % and 20 %
- b. 20 % and 15 %
- c. 15 % and 15 %
- d. 20 % and 20 %

**152. In concrete, use of angular crushed aggregate in place of natural rounded gravel affects**

- a. Direct tensile strength
- b. Split tensile strength
- c. Flexural tensile strength
- d. Compressive strength

## 153. Ratio of compressive strength to tensile strength of concrete

- a. Increases with age
- b. Decreases with age
- c. Remains constant
- d. None of the above

**154. According to Indian standards, the grading of fine aggregate is divided into**

- a. Two zone**
- b. Three zone**
- c. Four zone**
- d. Five zone**



*Select your answer according to the coding system given below:*

155. **Assertion A:** light weight concrete exhibits higher shrinkage than normal weight concrete

**Reason R:** Modulus of elasticity of light weight concrete is lower. Than that of normal weight concrete

- a. Both A and R are true and R is the correct explanation of A
- b. Both A and R are true but R is not a correct explanation of A
- c. A is true but R is false
- d. A is false but R is true

**156. Endurance limit of mild steel is approximately equal to**

- a. 0.3
- b. 0.5
- c. 0.7
- d. 0.8

**Endurance limit is defined as the maximum value of the ratio of maximum stress to short time static strength, below which no failure occurs**

**157. With the increase in rate of loading during testing, compressive strength of concrete**

- a. Increases
- b. Decreases
- c. Remains same
- d. None of the above

**158. For a given aggregate content, increasing the water-cement ratio in concrete**

- a. Increases shrinkage
- b. Decreases shrinkage
- c. Does not change shrinkage
- d. None of the above

*Select your answer according to the coding system given below:*

159. **Assertion A:** The net loss of strength due to air entrainment of a richer mix is higher than that of a leaner mix

**Reason R:** Effect of air entrainment on improving workability is smaller in richer mix than in a leaner mix.

Select your answer based on the coding system given below

- a. Both A and R are true and R is the correct explanation of A
- b. Both A and R are true but R is not a correct explanation of A
- c. A is true but R is false
- d. A is false but R is true

**160. The bond strength between steel reinforcement and concrete is affected by**

- i. Steel properties**
- ii. Concrete properties**
- iii. Shrinkage of concrete**

**The correct answer is**

- a. (i) and (iii)**
- b. (ii) and (iii)**
- c. (i) and (iii)**
- d. (i), (ii) and (iii)**

**161. The bond strength between steel and concrete is due to**

- a. Friction**
- b. Adhesion**
- c. Both friction and adhesion**
- d. None of the above**

**162. Impact strength of concrete increases by using**

- i. Smaller maximum size of aggregate**
- ii. Aggregate with high modulus of elasticity**
- iii. Aggregate with low poisson's ratio**

**The correct answer is**

- a. (i) and (ii)**
- b. (ii) and (iii)**
- c. (i) and (iii)**
- d. (i) (ii) and (iii)**



**163. Impact strength of concrete is greater for**

- i. Water stored concrete than for dry concrete**
- ii. Angular crushed aggregates**
- iii. Rounded aggregates**

**The correct answer is**

- a. (i) and (ii)**
- b. (i) and (iii)**
- c. Only (i)**
- d. Only (ii)**

**164. If the contributions of tricalcium silicate, dicalcium silicate tricalcium alitimate and tetra calcium alumino ferrite to the 28 days strength of hydrated ordinary portland cement are respectively W, X, Y and Z then**

- a.  $W > X > Y > Z$
- b.  $X > W > Y > Z$
- c.  $W > X > Z > Y$
- d.  $W > Y > X > Z$

**165. The initial and final setting times for ordinary portland cement are approximately related as**

- a.  $T = 530 + t$
- b.  $T = 270 + t$
- c.  $T = 90 + 1.2 t$
- d.  $T = 600 + 1.2 t$

**Where T and t are respectively final and initial setting times in minutes**

# Heartiest *Congratulations* To All Selected Candidates From **EverExam**



**Maneesh Kumar**  
**CPWD - 2018**



**Vaibhav Gupta**  
**CPWD - 2018**



**Mehefuz Hossain**  
**CPWD - 2018**



**Pooja Garg**  
**CWC - 2018**



**Gaurvendra Singh**  
**CWC - 2018**



**Kunal Panchal**  
**MES - 2018**



**Satyam Gupta**  
**BRO - 2018**



**Gaurav Pandey**  
**BRO - 2018**



**Rajbhadur Prajapati**  
**BRO - 2018**



**Suman Shankar**  
**BRO - 2018**

*Many More....*

## 60+ Selection In Civil **SSC JE 2018**



TELEGRAM CHANNEL **EVEREXAM TECH**

DOWNLOAD EVEREXAM APP



Heartiest *Congratulations* To All Selected Candidates From **EverExam**

# ALL STATE JE / AE RESULT



**Ajay Kumar**  
GPSC - AE



**Abdul**  
WBPS-C-JE



**Manoj**  
RRB JE BHOPAL



**Vaibhav**  
RRB JE PATNA



**Amerndra**  
RRB JE KOLKATA



**Deepak**  
RRB JE ALLAHABAD



**Satyam Gupta**  
UPPSC AE



**Gaurvendra**  
RRB JE ALLAHABAD



**Vicky**  
RRB JE BANGALORE



**Thakur Das**  
RRB JE AJMER



**Praveen**  
RRB JE CHENNAI



**Shubham**  
RRB JE GUWAHATI



**Ujjal**  
RRB JE KOLKATA



**Manish**  
BHOPAL AAI



TELEGRAM CHANNEL **EVEREXAM TECH**



DOWNLOAD **EVEREXAM APP**