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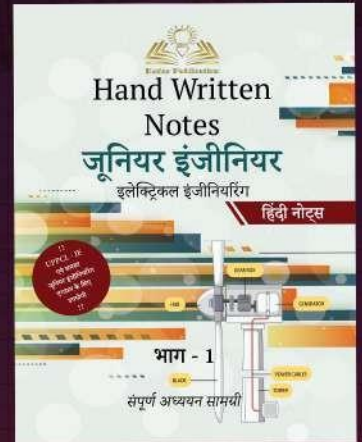
Objective Book for

Electrical-JE

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JE Short Notes



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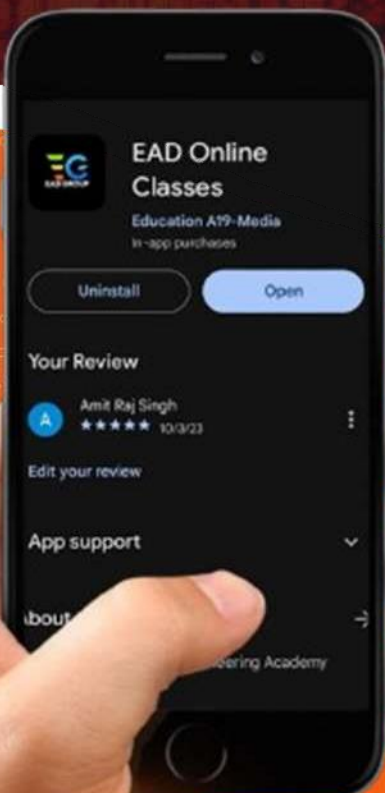
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UPPCL-JE, SSC-JE RRB-JE
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Raman sir
Electrical Engg. Expert



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RRB Allahabad Asstt. Loco Pilot – Shift 2

1. Mica is used in:
A. furnace
B. electric industry
C. steel industry
D. glass manufacturing
Ans. B
2. Goitre in human body is caused due to deficiency of:
A. Iodine B. Phosphorus
C. Nitrogen D. Calcium
Ans. A
3. The instrument used to measure the electric current is:
A. Barometer B. Altimeter
C. Ammeter D. Anemometer
Ans. C
4. Automatic wrist watches get energy from:
A. twist in spring
B. liquid crystal
C. kinetic energy
D. movement of our hands
Ans. B
5. Who wrote Akbarnama?
A. Faizi
B. Abdul Rahim Khankhana
C. Abul Fazal
D. Abdul Kadir Badayun
Ans. C
6. When a television is switched on:
A. We listen the sound first and then see the picture
B. We see the picture first and then listen the sound
C. It depends on the TV manufacturing company
D. We get audio and visual at the same time
Ans. A
7. Which country of the world has the largest number of post offices?
A. France B. China
C. India D. Japan
Ans. C
8. Which of the following states of India has the longest coast line?
A. Kerala B. Gujarat
C. Tamil Nadu D. Andhra Pradesh
Ans. B
9. Two unequal masses possess the same momentum, then the kinetic energy of the heavier mass is the kinetic energy of the lighter mass.
A. smaller than B. greater than
C. same as D. None of these
Ans. A
10. Where was the capital of Ranjit Singh, the king of Punjab, located?
A. Peshawar B. Amritsar
C. Lahore D. Rawalpindi
Ans. C
11. The chemical compound used in photography is:
A. Aluminium Hydroxide
B. Silver Bromide
C. Potassium Nitrate
D. Sodium Chloride
Ans. B
12. The fundamental duties are enshrined in which Article of the Indian Constitution?
A. Article 51 A B. Article 50 A
C. Article 50 B D. Article 51 B
Ans. A
13. Momentum has the same unit as that of:
A. torque
B. couple
C. impulse
D. moment of inertia
Ans. C
14. The mineral structure of diamond is:
A. Zinc B. Nickel
C. Nitrogen D. Carbon
Ans. D
15. Which of the following is an example of fossil fuel?
A. Coke B. Natural gas
C. Coal gas D. Producer gas
Ans. B

16. Which part of the body is affected by Jaundice?

- A. Small intestine B. Liver
C. Stomach D. Pancreas

Ans. B

17. Uttar Pradesh tops in the production of _____ in India?

- A. sugar cane B. rice
C. barley D. wheat

Ans. D

18. The safe temperature to keep eatables fresh in refrigerator is

- A. 4°C B. 0°C
C. 18°C D. 10°C

Ans. A

19. The best conductor of electricity is

- A. Aluminium B. Copper
C. Iron D. Silver

Ans. D

20. If the length of a rectangle is increased by 20% and its breadth is decreased by 20%, its area:

- A. increases by 4%
B. decreases by 4%
C. decreases by 1%
D. does not change

Ans. B

21. A train crosses two persons travelling at 3 kmph and 5 kmph in the same direction in 10 seconds and 11 seconds respectively. The speed of the train is:

- A. 28 kmph B. 27 kmph
C. 25 kmph D. 24 kmph

Ans. C

22. A is 20% less skilled workman than B. If A takes $7\frac{1}{2}$ hours to complete a work, then what time will B take to complete the work?

- A. 5 hours B. $5\frac{1}{2}$ hours
C. 6 hours D. $6\frac{1}{2}$ hours

Ans. C

23. The difference between the compound interest and simple interest on a certain sum at the rate of 5 p.c.p.a in 3 years is Rs. 15.25. The sum is:

- A. Rs. 2000 B. Rs. 1000
C. Rs. 2500 D. Rs. 1500

Ans. A

24. On adding a natural number P to the product of four consecutive natural numbers we get a perfect square number. The value of P is:

- A. 8 B. 2
C. 4 D. 1

Ans. D

25. The fraction lying between $\frac{2}{3}$ and $\frac{3}{5}$ is:

- A. $\frac{2}{5}$ B. $\frac{31}{50}$
C. $\frac{1}{15}$ D. $\frac{1}{3}$

Ans. B

26. The smallest 5-digit number divisible by 41 is:

- A. 10045 B. 10041
C. 10004 D. 41000

Ans. C

27. Choose the odd one out:

- A. 42 - 4 B. 36 - 6
C. 32 - 2 D. 15 - 5

Ans. A

28. If the word CLOCK is written in a certain code language as 34235 and TIME is written as 8679, then how will MOLEK be written in the same code language?

- A. 62495 B. 62945
C. 72495 D. 72945

Ans. C

29. If ASSIGN is written as SASING in a certain code language, then KIDNAP will be written as

- A. IKNDPA B. IKDNPA
C. IKDNAP D. IKAPDN

Ans. B

30. Urea supplies - to the plants.

- A. Calcium B. Phosphorus
C. Potassium D. Nitrogen

Ans. D

31. Which of the following is a physical change?
 A. Burning of cooking gas
 B. Fermentation of milk
 C. Digestion of food
 D. Dissolution sugar in water
 Ans. D
32. What causes cholera?
 A. Bacteria B. Virus
 C. Fungus D. Algae
 Ans. A
33. An apparatus for viewing objects lying above the eye level of the observer and whose direct vision is obstructed is known as:
 A. Photometer B. Periscope
 C. Planimeter D. Spectrometer
 Ans. B
34. Which atom has only one electron?
 A. Potassium B. Nitrogen
 C. Oxygen D. Hydrogen
 Ans. D
35. The organic acid present in vinegar is:
 A. brufanoic acid B. propanoic acid
 C. methanoic acid D. ethanoic acid
 Ans. D
36. Water gas consists of:
 A. a mixture of carbon monoxide and hydrogen
 B. water vapour and coal dust
 C. a mixture of carbon monoxide and nitrogen
 D. water vapour and methane
 Ans. A
37. A body strikes the floor vertically with a velocity u and rebounds at the same speed. The change of speed would be:
 A. $3u$ B. Zero
 C. u D. $2u$
 Ans. D
38. Which of the following is different from others?
 A. Speed B. Time
 C. Density D. Force
 Ans. C
39. What is the momentum of a man of mass 75 kg when he walks with a uniform velocity of 2 m/s?
 A. 50 kg m/s B. 75 kg m/s
 C. 100 kg m/s D. 150 kg m/s
 Ans. D
40. At the centre of the earth, the value of g becomes:
 A. infinity B. unity
 C. zero D. None of these
 Ans. C
41. 15 bulbs of 60W each, run for 6 hours daily and fridge of 300W runs for 5 hours daily. Find the fortnightly bill at the rate of 30 paise per unit.
 A. Rs. 31.05 B. Rs. 45.55
 C. Rs. 62.10 D. Rs. 75.10
 Ans. A
- Directions (42-47):** In each of the following questions, a number series is given with one term missing. Choose the correct alternative that will continue the same pattern and fill in the blank spaces:
42. 1, 2, 3, 6, 9, 18, (...), 54
 A. 18 B. 27
 C. 36 D. 81
 Ans. B
43. 4, 5, 9, 18, 34, (...)
 A. 43 B. 49
 C. 50 D. 59
 Ans. D
44. 66, 36, 18, (...)
 A. 3 B. 6
 C. 8 D. 9
 Ans. C
45. 3, 6, 5, 20, 7, 42, 9, (...)
 A. 54 B. 60
 C. 66 D. 72
 Ans. D
46. 1, 3, 4, 8, 15, 27, (...)
 A. 37 B. 44
 C. 50 D. 55
 Ans. C
47. 8, 10, 14, 18, (...), 34, 50, 66
 A. 24 B. 25
 C. 26 D. 27
 Ans. C

48. The connected load of a consumer is 2 KW and his maximum demand is 1.5 KW. The load factor of the consumer is
A. 0.75 B. 0.375
C. 1.33 D. None of these

Ans. A

49. The electric current which changes its direction after fixed intervals of time is called:
A. induced current
B. direct current
C. alternating current
D. None of these

Ans. C

50. Sheaths are used in cables to
A. provide proper insulation
B. provide mechanical strength
C. prevent ingress of moisture
D. None of these

Ans. A

51. For the stable operation of interconnected system, the passive element that can be used as interconnecting element is:
A. Reactor
B. Resistor
C. Capacitor
D. Resistor and Capacitor

Ans. C

52. The insulation resistance of a cable of length 10 km is $1\text{M}\Omega$, its resistance for 50 km length will be:
A. $1\text{M}\Omega$ B. $5\text{M}\Omega$
C. $0.2\text{M}\Omega$ D. $10\text{M}\Omega$

Ans. B

53. The rate of change of momentum is directly proportional to:
A. Force B. Inertia
C. Moment D. None of these

Ans. A

54. Which of these converts sunlight directly into electrical energy?
A. Solar cooker
B. Solar cell
C. Solar furnace
D. Solar water heater

Ans. B

55. If four $80\ \mu\text{F}$ capacitors are connected in parallel, the net capacitance is
A. $20\ \mu\text{F}$ B. $80\ \mu\text{F}$
C. $160\ \mu\text{F}$ D. $320\ \mu\text{F}$

Ans. D

56. The transformer used to decrease the magnitude of the alternating voltage is a:
A. step-up transformer
B. step-down transformer
C. step-in transformer
D. step-out transformer

Ans. B

57. When two bodies are rubbed against each other, they acquire:
A. equal and similar charges
B. equal and opposite charges
C. unequal and similar charges
D. unequal and opposite charges

Ans. B

58. Electric charge can flow through:
A. insulators
B. conductors
C. Both insulators and conductors
D. Neither conductors nor insulators

Ans. B

59. A device used to stabilise the voltage supplied by electric supply station is a:
A. dynamo B. transformer
C. ammeter D. generator

Ans. B

60. In the International system of measurement, the 'Kelvin' is the unit of
A. mass B. temperature
C. electric current D. air

Ans. B

61. Silver is a:
A. magnetic substance
B. good conductor of electricity
C. bad conductor of electricity
D. None of these

Ans. B

62. The instrument used to measure the blood pressure of human body is:

- A. Barometer
- B. Actimeter
- C. Sphygmomanometer
- D. Tachometer

Ans. C

63. Who sent Huensang as an ambassador in the court of Harsha?

- A. Fu Chen-Chu
- B. Tai Sung
- C. Tung Cuan
- D. None of these

Ans. B

64. Which metal is generally used to make electromagnets?

- A. Copper
- B. Nickel
- C. Iron
- D. Cobalt

Ans. C

65. A man pays Rs. 20 in the first month for clearing a debt of Rs. 3250 and increases the monthly payment by Rs. 15 in every succeeding month. How many months will he take to pay the debt?

- A. 20 months
- B. 23 months
- C. 25 months
- D. 26 months

Ans. A

66. Artificial silk is called:

- A. rayon
- B. decron
- C. fibre glass
- D. nylon

Ans. A

67. In the letters left between nearest letters of a sequence, there is a decrease by one. In the following letter series which one follows this rule?

- A. DJOTV
- B. DJOSV
- C. DJOSW
- D. DIOSU

Ans. B

68. Dynamo converts:

- A. electrical energy into mechanical energy
- B. high voltage into low voltage
- C. low voltage into high voltage
- D. mechanical energy into electrical energy

Ans. D

69. What the electrode that is connected to the negative pole of the battery is called?

- A. Cathode
- B. Electroplate
- C. Ion
- D. Anode

Ans. A

70. An instrument used to observe heavenly bodies is:

- A. telescope
- B. camera
- C. microscope
- D. periscope

Ans. A

71. The maximum percentage in the atmosphere is of:

- A. Oxygen
- B. Nitrogen
- C. Carbon dioxide
- D. Helium

Ans. B

72. What is the function of Ozone layer?

- A. It prevents harmful infrared rays of the sun from reaching the earth
- B. It prevents radiation escaping the earth, hence keeping it warm
- C. It is essential for rainfall
- D. It filters harmful ultra violet rays of the sun

Ans. A

73. Lightning is caused in the sky due to the flow of charge between:

- A. two oppositely charged clouds
- B. two similarly charged clouds
- C. one neutral and one charged clouds
- D. None of these

Ans. A

74. Which group of letters will complete the letter series being placed in blanks in order.

a_bbc_aab_cca_bbcc

- A. bacb
- B. acba
- C. abba
- D. caba

Ans. B

Directions (75-79): In each question, a sequence has been given which has a missing term. Pick out the right alternative that completes the sequence.

75. 6, 10, 18, 34, ?

- A. 46
- B. 56
- C. 66
- D. 76

Ans. C

76. OTE, PUF, QVG, RWH, ?
A. SYJ B. TXI
C. SXJ D. SXI

Ans. D

77. 33, 28, 24, $\frac{?}{?}$, 19, 18
A. 21 B. 22
C. 20 D. 23

Ans. A

78. U, O, ?, E, A
A. I B. K
C. M D. N

Ans. A

79. 7, 12, 19, 28, 39, $\frac{?}{?}$
A. 72 B. 60
C. 144 D. 52

Ans. D

80. Choose the odd one out
A. Wool B. Fur
C. Hair D. Grass

Ans. D

81. Game : Ground : Cinema : ?
A. Hall B. Stage
C. Screen D. Drama

Ans. C

82. Fruit : Banana : Mammal : ?
A. Cow B. Snake
C. Fish D. Duck

Ans. A

83. Girl : Beautiful :: Boy : ?
A. Smart B. Heroic
C. Courageous D. Handsome

Ans. D

84. Court : Justice : School : ?
A. Teacher B. Student
C. Ignorance D. Education

Ans. D

85. The first atomic power plant was started in India at:
A. Narora B. Tarapur
C. Rawatbhata D. None of these

Ans. B

86. The least polluting fuel is:
A. Hydrogen B. Diesel
C. Kerosene D. Coal

Ans. A

87. Heart disease is caused by increase in:
A. Glucose B. Cholesterol
C. Heparin D. Haemoglobin

Ans. B

88. Which vitamin helps in clotting of blood?

A. Vitamin B B. Vitamin B₂
C. Vitamin K D. Vitamin D

Ans. C

89. In case the posts of President and Vice-President lie vacant, who officiates as the President?

A. Speaker of the Lok Sabha
B. Chief Justice of India
C. Attorney General of India
D. Chairman of Rajya Sabha

Ans. B

90. The chief source of energy is:

A. Vitamin B. Minerals
C. Carbohydrate D. Water

Ans. C

91. A shopkeeper bought goods for Rs. 2025. He sold $\frac{1}{5}$ th of it at 20% profit and the remaining at the profit of 5%, the profit per cent on the whole is

A. 6% B. 7%
C. 6.5% D. 8%

Ans. D

92. A group consists of 25 men and 20 women. The average weight of men is 48 kg and that of women is 30 kg. The average weight of the group is

A. 35 kg B. 39 kg
C. 40 kg D. 45 kg

Ans. C

93. A sum is divided among 120 men and some women in the ratio 15:21. If each man gets Rs. 5 and each woman gets Rs. 4, the number of women is

A. 220 B. 200
C. 190 D. 210

Ans. D

94. Mustard is grown in:

A. Kharif season B. Rabi season
C. Jayad season D. Whole year

Ans. B

95. Magnetic needle directs to:

A. East B. Sky
C. North D. West

Ans. C

96. Two men can complete a work in 9 days. How many men will be required to complete twice the work in 12 days?

- A. 2 B. 3
C. 11 D. 4

Ans. B

97. Lord Buddha got emancipation (Mahaparinirvana) at:

- A. Kushinagar B. Lumbini
C. Bodh Gaya D. Kapilvastu

Ans. A

98. Malaria spreads by:

- A. Culex mosquito
B. Anopheles mosquito
C. Water borne mosquito
D. None of these

Ans. B

99. To conserve the eatables we use:

- A. Benzoic acid
B. Sodium chloride
C. Sodium carbonate
D. None of these

Ans. A

100. The chief centre of learning during lord Buddha era was:

- A. Nalanda
B. Delhi
C. Varanasi
D. Bodh Gaya

Ans. A

