

RRB Mumbai Junior Engineer Solved paper-5 (2007)

Directions Q: 1-2: In these questions, select suitable word/phrases to fill in blank

1. He deals_____ grocery nowadays.

1. out 2. in 3. with 4. for

Answer: 2

2. He is popular_____ his subordinates

1. through 2. with 3. within 4. in

Answer: 2

Directions Q: 3-4: In these questions, select a word which is opposite in meaning to the given word in

Correct letters

3. PROMPTLY

1. Promptly 2. Timely 3. Usually 4. Initially

Answer: 4

4. PERMIT

1. Check 2. Disallow 3. Decline 4. Allow

Answer: 2

Directions (Q.Nos. 5-7): In following questions a word has been written four different ways out of which

only one is correctly spelt. Find the correctly spelt word.

5. A) Occasonal B) Occassional C). Occasional D) Ocassional

Answer: C

6. A). Arearrs B) . Arierrs C) Arrears D) Arriers

Answer: C

7. A) Warranty B) Warrantey C) Waranty D) Warantey

Answer: A Directions Q: 8-10: In each of the following questions, a sentence has been divided into three parts and

they are marked (1), (2) and (3). Find out the part in which there is an error mark its number as your

answer. Mark (4) as your answer if there is no error.

8. Not only he/but also his son were blamed for the act and rightly so/No error

(1) (2) (3) (4)

Answer: (2)

9. Shanta is a student / whom we all expect / will stand first in the lass / No error

(1) (2) (3) (4)

Answer: (2)

10. I am obliged with you / and your entire family / for showing kindness to us / No error

(1) (2) (3) (4)

Answer: (1)

11. The earth orbits around the sun making one revolution

1. every day 2. every month 3. every year 4. every ten years

Answer: 3

12. Who among the following won the Nobel Prize in Physics?

1. C.V. Raman 2. J.C. Bose 3. R.N. Tagore 4. None of these

Answer: 1

13. In which state is Bhakra-Nangal dam located?

1. Punjab 2. Uttar Pradesh 3. Maharashtra 4. Uttaranchal

Answer: 1

14. What is the voltage of domestic electric supply in India?

1. 220 Volts AC 2. 220 Volts DC 3. 440 Volts AC 4. None of these

Answer: 1 15. Which of the following is the capital of the state of Uttaranchal?

1. Allahabad 2. Haridwar 3. Dehradun 4. Ranchi

Answer: 3

16. The kuchipudi dance originated in

1. Andhra Pradesh 2. Tamil Nadu 3. Kerala 4. Karnataka

Answer: 1

17. Which of the following gases is lightest?

1. Nitrogen 2. Carbon dioxide 3. Hydrogen 4. Oxygen

Answer: 3

18. Which of the following does not fit into the series: 1, 3, 7, 15, 27, 63, 127?

1. 7 2. 63 3. 27 4. 15

Answer: 3

19. Which of the following is different from the other three?

1. CBUV 2. YXTU 3. RQOP 4. JIML

Answer: 2

20. If the first day of a year (which is not a leap year) is Friday, then what will be the last day of that year?

1. Saturday 2. Friday 3. Monday 4. Tuesday

Answer: 2

21. The National flower of India is

1. Rose 2. Marigold 3. Lotus 4. sun flower

Answer: 3 22. Which of the following of the highest Civilian Award of India?

1. Padma Vibhushan 2. Ashok Chakra 3. Bharat Ratna 4. Param vir Chakra

Answer: 3

23. Which of the following planet is nearest to the Sun?

1. Mercury 2. Earth 3. Jupiter 4. Venus

Answer: 1

24. In a code language HOUSE is written as INVRF. How will CROWD be written in that language?

1. DQPVE 2. DQPVK 3. DQVPE 4. DQEOPV

Answer: 1

25. Arrange the following words in a logical order:

I. Cotton II. Cloth III. Suit IV. Thread

1. I, II, IV, III 2. I, IV, II, III 3. II, I, IV, III 4. IV, I, II, III

Answer: 2

26. What is related to WOLF in the same way as PIT is related to TIP?

1. FOWL 2. BLOW 3. FLOW 4. GLOW

Answer: 3

Directions Q: 27 to 29 In these questions, which alternative will come in place of the question mark?

27. FED : MKI :: PON : ?

1. WLM 2. HIG 3. MNO 4. WVU

Answer: 1 28. K/T : 11/20 :: J/R : ?

1. 10/18 2. 10/18 3. 11/19 4. 5/9

Answer: 2

29. Which of the following will come in place of the question mark in the series given below

KNZ, MKX, OHV, QET, ?

1. SAR 2. SAQ 3. SBR 4. RAR

Answer: 3

Directions Q: 30- 34: In these questions, what will come in place of the question marks?

30. 22222/? = 11

1. 20202 2. 2022 3. 222 4. None of these

Answer: 4

31. $3848 / 16 + 9 = ?$

1. 240.5 2. 249.5 3. 24.05 4. 33.5

Answer: 2

32. $9/4 - ?/16 = ?$

1. 80 2. 36 3. 20 4. $2 \frac{1}{4}$

Answer: 3

33. $149.01 + 3.621 + 1.1 = ?$

1. 153.623 2. 143.731 3. 153.821 4. 153.731

Answer: 4

34. $(45)^2 - (41)^2 = 7 \times 4$

1. 4 2. 86 3. 344 4. 1376

Answer: 2 35. A student secures 90 percent, 60 percent and 54 percent marks in test papers with 100, 150, and 200

respectively as maximum marks. The percentage of this aggregate is

1. 64 2. 68 3. 70 4. None of these

Answer: 3

36. A shopkeeper sells one radio for Rs. 840 at a gain of 20 percent and another for Rs. 960 at a loss of 4

percent. What is his total gain or loss percentage?

1. 10 percent gain 2. 5 15/17 percent loss 3. 5 15/17 percent gain 4. None of these

Answer: 3

37. In what time will Rs. 500 become Rs. 600 at simple interest @ 10 percent annum?

1. 2 years 2. 3 years 3. 2 1/2 years 4. 3 1/2 years

Answer: 1

38. A car moves at the speed of 72 km per hour. The time taken for traveling 72 meters is

1. 1 sec 2. 1 min 3. 3.6 sec 4. 4 sec

Answer: 3 Electrical – Mechanical

39. Which type of wiring gives more mechanical and fire protection?

1. Casing capping
2. Batten wiring
3. Conduct wiring

4. Cleat wiring

Answer: 1

40. The function of a choke used with fluorescent tube working on a.c. is

1. to produce high voltage kick to start the tube
2. to limit the magnitude of discharge current of the tube while running
3. Both of these
4. None of these

Answer: 2

41. Flexible conduits are used in preference to rigid conduits

1. for giving supply to motor to allow for belt tension adjustment
2. for giving supply to vibrating machinery
3. for runs full of obstructions, bends and turns
4. for all of these situations

Answer: 4

42. If earth wire of smaller size is used

1. it will melt
2. it will spoil the insulation
3. it will produce heavy voltage drop in the earth wire
4. None of these

Answer: 1 43. Type of wiring used for godowns, workshops and public buildings is

1. casing and capping
2. batten wiring
3. conduct wiring
4. cleat wiring

Answer: 3

44. Protection to motor from overload is given by

1. earthing
2. starter

3. fuses 4. All of these

Answer: 3

45. The main function of a switch is to safely

1. Break the circuit
2. Make the circuit
3. Make and break the circuit
4. Regulate the current flow in the circuit

Answer: 3

46. In house wiring employing looping in and looping out system, neutral is looped in and out from

1. ceiling rose
2. switch holder
3. socket
4. All of these

Answer: 4

47. Electrical fires should only be extinguished by the use of

1. water
2. carbon tetrachloride fire extinguisher
3. foam type fire extinguisher
4. Anyone of these

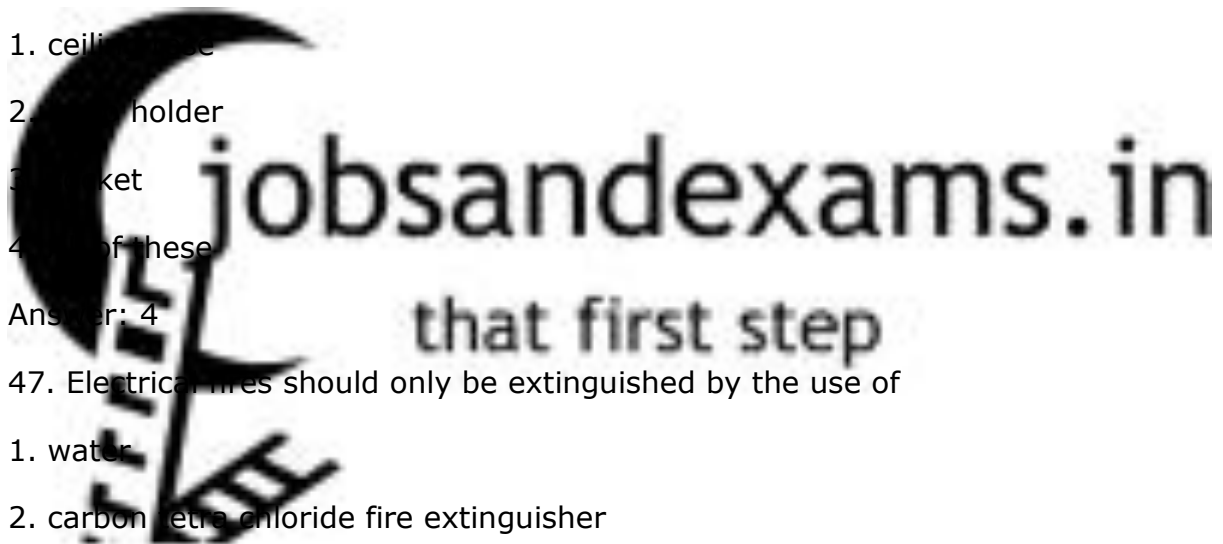
Answer: 4 48. Heavy current in dc circuits can be measured with the aid of

1. CT in line
2. shunt resistance in series with meter
3. shunt resistance in parallel with meter
4. None of these

Answer: 3

49. Hysteresis and eddy current errors will be least in

1. M.I. instruments



2. Dynamometer instrument
3. M.C. Instruments
4. All of these

Answer: 2

50. In a pure resistive circuit,

1. current is in phase with the voltage by 90 degree
2. current lags behind the voltage by 90 degree
3. current leads the voltage by 90 degree
4. current can lead or lag the voltage by 90 degree

Answer: 1

51. By heating a conducting material, the conductivity of the material

1. Increases 2. Decreases 3. Remains the same 4. May increase or decrease

Answer: 1

52. In an N-type semiconductor the minority carriers are

1. electrons 2. holes 3. free electrons 4. None of these

Answer: 2

53. The relative permeability for a superconductor is

1. infinity 2. zero 3. unity 4. positive

Answer: 3 54. Universal Motor is used in

1. A.C 2. D.C 3. AC and DC 4. None of these

Answer: 3

55. Synchronous Motor is

1. Self Started 2. To start using another motor 3. Squirrel cage type 4. None of These

Answer: 2

56. In India, the domestic supply of voltage is

1. 250-300V 2. 110-220V 3. 220-230V 4. 400-420V

Answer: 3

57. The supply frequency in India is

1. 50Hz
2. 40Hz
3. 25Hz
4. 60Hz

Answer: 1

58. Which winding in a transformer has more number of turns?

1. Primary winding
2. Secondary winding
3. High voltage winding
4. Low voltage winding

Answer: 3

59. Iron core of power transformer is laminated

1. to reduce copper losses
2. to reduce hysteresis losses
3. to reduce eddy current losses
4. in (1) and (3)

Answer: 60. In a transformer, hysteresis losses can be reduced

1. by reducing the thickness of the iron core laminations
2. by controlling silicon content of the steel laminations
3. by reducing the load on the transformer
4. None of these

Answer: 1

61. Why Lubrication is done

1. To Increase the speed
2. To Prevent Friction between the Mating Parts
3. To avoid heat
4. None of These

Answer: 2

62. The Height of switch board fixed is usually

- 1) 3 Meters
- 2) 9 Meters
- 3) 1.5 Meters
- 4) 0.25 Meters

Answer : 3

63. In a ceiling fan employing capacitor run motor

1. primary winding surrounds the secondary winding
2. secondary winding surrounds the primary winding
3. Both are usual arrangements
4. None of them are usual Arrangements

Answer: 3

64. The zenor diode will regulate so long as it is kept in

1. forward conduction
2. idle conduction
3. reverse conduction
4. None of these

Answer: 1 65. In radio communication the medium of communication is
1. antenna 2. radar 3. space 4. satellite

Answer: 2

66. The sound is characterized by ___ and amplitude

1. velocity 2. pitch 3. frequency 4. medium

Answer: 2

67. The LED light is mainly emitted because

1. diode emits light when heated
2. recombination of charge takes place
3. it follows the heating laws
4. None of these

Answer: 2

68. Generally bridge rectifiers are preferred because

1. they require less input
2. they require big size of transformer
3. they require less peak inverse voltage

4. None of these

Answer: 3

69. The common base configuration amplifier is used

1. in low frequency circuitry
2. in very high frequency circuitry
3. in medium frequently
4. None of these

Answer: 2

71. The FET can be used as

1. capacitor
2. inductor
3. variable resistance
4. None of these

Answer: 3 72. The force which controls the deflecting force is known as

1. controlling force
2. deflecting force
3. damping force
4. None of these

Answer: 3

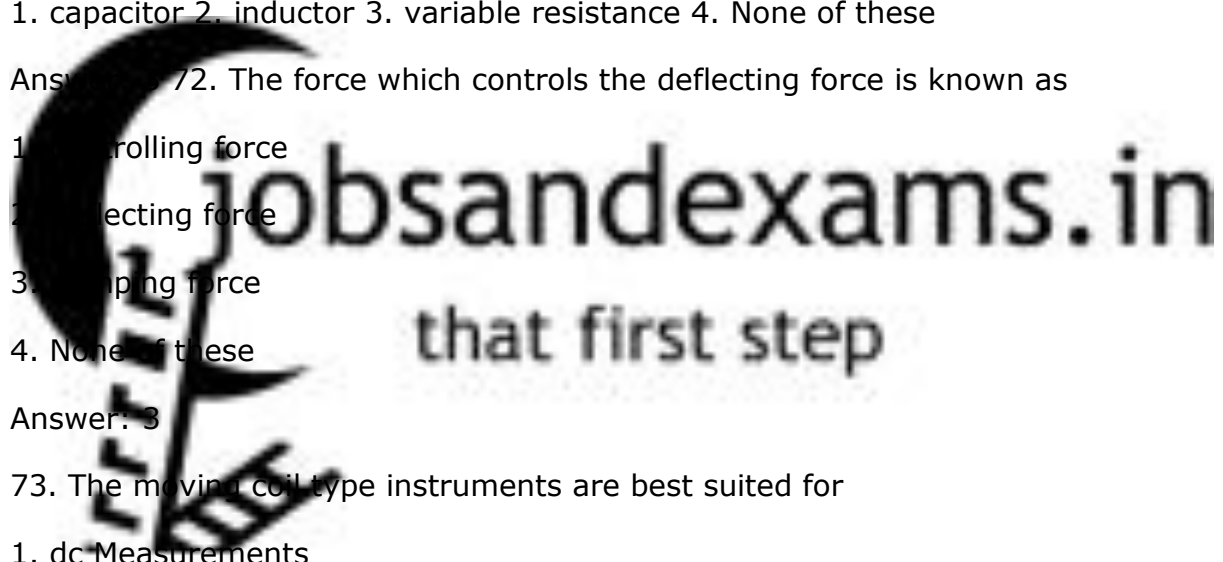
73. The moving coil type instruments are best suited for

1. dc Measurements
2. ac Measurements
3. ac/dc measurements
4. power factor measurements

Answer: 2

74. The scale of hot wire instrument is

1. even
2. uneven
3. crowded in the beginning
4. crowded in the end



Answer: 3

75. The ----Cells convert light falling directly in to electric current

1. Photo Voltaic
2. Photo
3. Vacuum
4. gas filled

Answer: 1

76. As the current flows, the -----is setup around coil

1. Magnetic flux
2. Electric fulx
3. Resonance
4. Amplitude

Answer: 1

