

# FINAL ANSWER KEY

Question Paper Code:	4/2019/OL
Category Code:	593/2017
Exam:	Junior Instructor (Wireman)
Medium of Question:	English
Date of Test	06-03-2019
Department	Industrial Training
Alphacode	A

Question1:-How many women members were there in the Indian Constituent Assembly?

- A:-12
- B:-15
- C:-18
- D:-19

Correct Answer:- Option-B

Question2:-Who among the following was a martyr in Paliyam Satyagraha?

- A:-A.G. Velayudhan
- B:-T.K. Narayana Pillai
- C:-R.K. Shanmukhan Chetti
- D:-Kalkulam Govindan

Correct Answer:- Option-A

Question3:-The capital of Venezuela is

- A:-La Paz
- B:-Buenos Aires
- C:-Lima
- D:-Caracas

Correct Answer:- Option-D

Question4:-Who is the author of the Malayalam Drama "Ningalenne Communistakki"?

- A:-K. Damodaran
- B:-N.N. Pillai
- C:-Thoppil Bhasi
- D:-V.T. Bhattatirippad

Correct Answer:- Option-C

Question5:-Who gave the name "Brahmananda Sivayogi" to Karat Govindankutty Menon?

- A:-Chengalath Kunhirama Menon
- B:-Dr. Ayyathan Gopalan
- C:-Manjeri Rama Iyer
- D:-Puliyampatta Kunhikrishna Menon

Correct Answer:- Option-B

Question6:-Which Article of the Indian Constitution ensures Freedom of Press in India?

- A:-Article 17
- B:-Article 21
- C:-Article 29
- D:-Article 19

Correct Answer:- Option-D

Question7:-"Pottiya Ezhakal", a collection of Malayalam stories is of \_\_\_\_\_.

- A:-Malayattoor Ramakrishnan
- B:-M.B. Bhattatirippad
- C:-Ponkunnam Varkey
- D:-Balamaniyyamma

Correct Answer:- Option-C

Question8:-Name the President of the People's Republic of China.

- A:-Xi Jinping
- B:-Wei Fenghe
- C:-Pham Binh Minh
- D:-Nguyen Xuan Phuc

Correct Answer:- Option-A

Question9:-In which case did the Supreme Court hold that the Preamble is not the part of the Constitution of India?

A:-Kesavananda Bharati State of Kerala, 1973

B:-The Berubari Union Case, 1961

C:-Indira Gandhi vs. Raj Narain, 1975

D:-Mc Mehta v. Union of India, 1986

Correct Answer:- Option-B

Question10:-Who among the following was not the leading activist of the PRDS founded by Poikayil Yohannan?

A:-Simon Yohannan

B:-Vellikkara Mathai Upadeshi

C:-Kalayil Pathrose Mooppan

D:-Kocheeppan Tharakan

Correct Answer:- Option-D

Question11:-The "Hindu Pulaya Samajam" was founded in 1917 by \_\_\_\_\_.

A:-Pandit K.P. Karuppan

B:-Mahatma Ayyankali

C:-Karumban Daivathan

D:-Vellikkara Chothi

Correct Answer:- Option-C

Question12:-The political party of Imran Khan that came to Pakistan in August 2018 is \_\_\_\_\_.

A:-Tehreek-al-Islam

B:-Hizb-e-Refah e Insaf

C:-Tehreek-e-Insaf

D:-Hezb-e-Congra-e Pakistan

Correct Answer:- Option-C

Question13:-The editor of the "Mithavadi" who campaigned against untouchability was \_\_\_\_\_.

A:-C. Krishnan

B:-K. Ayyappan

C:-A.R. Menon

D:-E. Ikkanda Warriar

Correct Answer:- Option-A

Question14:-As per the Constitution of India which right cannot be taken away during Emergency?

A:-Right against exploitation

B:-Right to personal liberty

C:-Right to freedom of religion

D:-Right to equality

Correct Answer:- Option-B

Question15:-The socio-religious reformer of Kerala who exhorted the workers not to work without wages was \_\_\_\_\_.

A:-Sree Narayana Guru

B:-Chattampi Swamikal

C:-Vagbhatananda

D:-Vaikunda Swamikal

Correct Answer:- Option-D

Question16:-The social reformer known as "Vaikom Veeran" was

A:-Mannath Padmanabhan

B:-K. Kelappan

C:-E.V. Ramaswamy Naikar

D:-A.K. Gopalan

Correct Answer:- Option-C

Question17:-The Diwan of Travancore who issued an order permitting Channar women who became converts to Christianity to cover their bodies with jackets was

A:-Col. Munro

B:-Muhammad Habibullah

C:-C.P. Ramaswami Iyer

D:-M.E. Watts

Correct Answer:- Option-A

Question18:-The constitutional principle of the basic structure was invented by the \_\_\_\_\_.

A:-Legislature

B:-Judiciary

C:-President of India

D:-Executive

Correct Answer:- Option-B

Question19:-Which book is considered as the "Bible of Ayyavazhi"?

- A:-Vedadikara Nirupanam
- B:-Mokshapradeepam
- C:-Narayana Pandaram
- D:-Akhilathiruttu Ammanai

Correct Answer:- Option-D

Question20:-The captain of the Volunteer Corps of the Guruvayur Satyagraha was

- A:-P. Krishna Pillai
- B:-K. Kelappan
- C:-A.K. Gopalan
- D:-M.C. Janardhana Pillai

Correct Answer:- Option-C

Question21:-How is an ammeter connected in a circuit?

- A:-Parallel
- B:-Series
- C:-Series - parallel
- D:-None of these

Correct Answer:- Option-B

Question22:-BOT unit is \_\_\_\_\_

- A:-Joule
- B:-Newton
- C:-KWh
- D:-Watt

Correct Answer:- Option-C

Question23:-The temp. resistance coefficient is represented in the form of

- A:-ohm/ohm
- B:-ohm/°c
- C:-ohm/ohm/°c
- D:-None of these

Correct Answer:- Option-C

Question24:-Ohm is the unit of

- A:-Resistance
- B:-Capacitive reactance
- C:-Inductive reactance
- D:-All of the above

Correct Answer:- Option-D

Question25:-3 resistors are connected in series across a 27V supply. The second resistor has twice the resistance of the first. The third one has three times the resistance of the second. Find the voltage across the third resistance

- A:-3V
- B:-6V
- C:-9V
- D:-18V

Correct Answer:- Option-D

Question26:-A safety sign circular in shape, white symbol on blue background is a

- A:-Prohibition sign
- B:-Mandatory sign
- C:-Warning sign
- D:-Information sign

Correct Answer:- Option-B

Question27:-Respiratory protective equipment comes under

- A:-PPE 3
- B:-PPE6
- C:-PPE1
- D:-PPE7

Correct Answer:- Option-A

Question28:-Gas and liquefiable gases come under \_\_\_\_\_ class of fire.

- A:-Class D
- B:-Class C

C:-Class B

D:-Class A

Correct Answer:- Option-B

Question29:-The saw used for cutting thin wooden accessories like wooden batten round blocks casing capping etc. is

A:-Handsaw

B:-Hacksaw

C:-Tenon saw

D:-None of these

Correct Answer:- Option-C

Question30:-The curved part of a file separating the tang from body is

A:-Face

B:-Edge

C:-Tang

D:-Shoulder

Correct Answer:- Option-D

Question31:-The angle of punch which is used for witness marks is

A:-60°

B:-30°

C:-45°

D:-90°

Correct Answer:- Option-A

Question32:-Arc heating occurs when the air between electrodes of opposite polarities become

A:-moistened

B:-dry

C:-ionised

D:-none of the above

Correct Answer:- Option-C

Question33:-\_\_\_\_\_ calipers are used for marking and layout works.

A:-Jenny calipers

B:-Outside calipers

C:-Inside calipers

D:-Firm joint calipers

Correct Answer:- Option-A

Question34:-EPROM stands for

A:-Electrically Programmable Read Only Memory

B:-Erasable Programmable Read Only Memory

C:-Electrically Programmable Random Only Memory

D:-Erasable Processors Read Only Memory

Correct Answer:- Option-B

Question35:-A wire measuring 1mm diameter has a cross sectional area of \_\_\_\_\_

A:-`1 mm<sup>2</sup>`

B:-`1 cm<sup>2</sup>`

C:-`0.78 mm<sup>2</sup>`

D:-`0.87 mm<sup>2</sup>`

Correct Answer:- Option-C

Question36:-The torque producing movement of the pointer in an indicating instrument is

A:-deflecting

B:-controlling

C:-distracting

D:-damping

Correct Answer:- Option-A

Question37:-In an instrument the pointer comes slowly to its final deflected position if the instrument is \_\_\_\_\_ damped.

A:-not

B:-over

C:-critically

D:-under

Correct Answer:- Option-B

Question38:-An electrical circuit that has infinity resistance is called \_\_\_\_\_ circuit.

A:-an open

- B:-a short
- C:-a ground
- D:-either (2) or (3)

Correct Answer:- Option-A

Question39:-No. of light points admissible in one circuit are

- A:-4 points of 400w each
- B:-4 points of 600w each
- C:-8 points of 100w each
- D:-8 points of 200w each

Correct Answer:- Option-C

Question40:-No. of screws to be used for fixing a round block

- A:-1 No
- B:-2 Nos
- C:-3 Nos
- D:-4 Nos

Correct Answer:- Option-B

Question41:-In this wiring, to operate 3 lamps in all we require 6 two-way switches is

- A:-Godown wiring
- B:-Tunnel wiring
- C:-Hostel wiring
- D:-Corridor wiring

Correct Answer:- Option-D

Question42:-Size of copper plate electrode for plate earthing is

- A:-60×60 cm×6.3 mm
- B:-60×60 cm×3.15 mm
- C:-30×30 cm×6.3 mm
- D:-30×30 cm×3.15 mm

Correct Answer:- Option-B

Question43:-The unit of luminous flux is

- A:-lumen
- B:-candle power
- C:-lux
- D:-meter candle

Correct Answer:- Option-A

Question44:-To increase the range of an ammeter \_\_\_\_\_ is used.

- A:-C.T.
- B:-multiplier
- C:-shunt
- D:-P.T.

Correct Answer:- Option-C

Question45:-Extension of MS Word file is

- A:-.doc
- B:-.xls
- C:-.text
- D:-.ppt

Correct Answer:- Option-A

Question46:-Which one of the following is a basic unit of MS Excel?

- A:-Row
- B:-Column
- C:-Cell
- D:-Word

Correct Answer:- Option-C

Question47:-Isolation of fire from the supply of oxygen by blanketing it with foam, sand etc. comes under which fire extinguishing method

- A:-Starving
- B:-Smothering
- C:-Cooling
- D:-Blanketing

Correct Answer:- Option-B

Question48:-Edison screw type lamp holders are used for lamp with \_\_\_\_\_ wattage range.

- A:-above 600 w
  - B:-upto 200 w
  - C:-above 200 w below 600 w
  - D:-above 200 w below 300 w
- Correct Answer:- Option-D

Question49:-To increase the ampere hour rating, the cells are to be connected in

- A:-parallel
  - B:-series parallel
  - C:-parallel series
  - D:-series
- Correct Answer:- Option-A

Question50:-"Don't try to stop a running machine with hands" comes under

- A:-General safety
  - B:-Personal safety
  - C:-Machine safety
  - D:-Social safety
- Correct Answer:- Option-B

Question51:-The ripple factor of a power supply is a measure of

- A:-Its voltage regulation
  - B:-Diode rating
  - C:-Its filter efficiency
  - D:-Purity of power output
- Correct Answer:- Option-D

Question52:-The function of a commutator in a DC generator is

- A:-To change DC to AC
  - B:-To collect current from conductors
  - C:-To change AC to DC
  - D:-To conduct the current to the brushes
- Correct Answer:- Option-C

Question53:-The field coils of a DC generator are usually made of

- A:-Carbon
  - B:-Copper
  - C:-Cast iron
  - D:-Graphite
- Correct Answer:- Option-B

Question54:-In a two point starters the series resistors is required for

- A:-To limit the starting current
  - B:-Starting the motor
  - C:-To limit the back emf
  - D:-To give heavy current at starting
- Correct Answer:- Option-A

Question55:-In two watt meter method of measuring three phase power one of the wattmeter shows zero reading what would be the value of the power factor in this case

- A:-1
  - B:-0.5
  - C:-zero
  - D:-1.5
- Correct Answer:- Option-B

Question56:-Rotor of an induction motor runs always

- A:-At synchronous speed
  - B:-At more than synchronous speed
  - C:-At less than synchronous speed
  - D:-In opposite direction to the field
- Correct Answer:- Option-C

Question57:-The difference between the synchronous speed and the actual rotor speed is called

- A:-Fractional slip
- B:-Slip speed
- C:-Rotor speed

D:-Actual rotor speed

Correct Answer:- Option-B

Question58:-The slip of an induction motor will be low when

A:-Rotor Resistance is low

B:-Friction loss is low

C:-Windage loss is low

D:-Rotor resistance is high

Correct Answer:- Option-A

Question59:-The split rings are made of

A:-Brass

B:-Gunmetal

C:-Bronze

D:-Hard drawn copper

Correct Answer:- Option-D

Question60:-Which motor should not be started on no load?

A:-Shunt motor

B:-Cumulative compound motor

C:-Series motor

D:-Differential compound motors

Correct Answer:- Option-C

Question61:-The barrier potential for a silicon PN junction is \_\_\_\_\_ V.

A:-0.3 V

B:-0.7 V

C:-0.2 V

D:-0.5 V

Correct Answer:- Option-B

Question62:-In which DC generator the armature and field current will be equal?

A:-Shunt

B:-Long shunt compound

C:-Short shunt compound

D:-Series

Correct Answer:- Option-D

Question63:-Which type of starter used to start both shunt and compound DC motor?

A:-Three pointer starter

B:-Two point starter

C:-DOL starter

D:-Star-delta starter

Correct Answer:- Option-A

Question64:-When the speed of alternator increases the frequency?

A:-Decreases

B:-Increases

C:-Remains same

D:-None of the above

Correct Answer:- Option-B

Question65:-Alternators are rated in

A:-KW

B:-KWH

C:-KVA

D:-Full load current

Correct Answer:- Option-C

Question66:-Most widely used transformer oil is

A:-Animal oil

B:-Cooking oil

C:-Vegetable oil

D:-Mineral oil

Correct Answer:- Option-D

Question67:-The line insulators are made up to

A:-Mica

B:-Porcelain clay

C:-Asbestos

D:-Ceramic

Correct Answer:- Option-B

Question68:-Epoxy compound used with underground cable does not need

A:-Heating

B:-Armouring

C:-Insulation

D:-Core

Correct Answer:- Option-A

Question69:-The chemical used in breather is

A:-Copper sulphate

B:-Sodium chloride

C:-Silica gel

D:-Potassium chloride

Correct Answer:- Option-C

Question70:-Graphite is used in nuclear power plant as a

A:-Fuel

B:-Coolant

C:-Electrode

D:-Moderator

Correct Answer:- Option-D

Question71:-Which of the following power plants is free from environmental problems?

A:-Diesel engine

B:-Nuclear power plant

C:-Hydro electric power plant

D:-Steam power plant

Correct Answer:- Option-C

Question72:-Which type of insulator is used in stay wire?

A:-Egg type

B:-Pin type

C:-Shackle type

D:-Suspension type

Correct Answer:- Option-A

Question73:-Which of the following power plant has the maximum capital cost?

A:-Steam power plant

B:-Nuclear power plant

C:-Hydro electric power plant

D:-Diesel power plant

Correct Answer:- Option-B

Question74:-The working principle of a transformer is

A:-Static induction

B:-Self induction

C:-Mutual induction

D:-None of the above

Correct Answer:- Option-C

Question75:-The colour of neutral wire of a cable is

A:-Red

B:-Yellow

C:-Orange

D:-Black

Correct Answer:- Option-D

Question76:-The amount of matter in a body is called

A:-mass

B:-weight

C:-density

D:-none of these

Correct Answer:- Option-A

Question77:-The rate of change of position in a particular direction is called

A:-speed

- B:-velocity
- C:-acceleration
- D:-none of these

Correct Answer:- Option-B

Question78:-The volume of a hemisphere is

- A:-  $\frac{4}{3} \pi r^3$
- B:-  $\frac{3}{3} \pi r^3$
- C:-  $\frac{2}{3} \pi r^3$
- D:-  $\frac{1}{3} \pi r^3$

Correct Answer:- Option-C

Question79:-Perimeter of a circle is

- A:-  $1 \pi r$
- B:-  $2 \pi r$
- C:-  $3 \pi r$
- D:-  $4 \pi r$

Correct Answer:- Option-B

Question80:-One gallon is

- A:-1.546 litres
- B:-2.546 litres
- C:-3.546 litres
- D:-4.546 litres

Correct Answer:- Option-D

Question81:-60 Km/hr into m/sec is

- A:-10.66 m/sec
- B:-12.66 m/sec
- C:-14.66 m/sec
- D:-16.66 m/sec

Correct Answer:- Option-D

Question82:-The property of material to be drawn into thin sheets without fracture is

- A:-Ductility
- B:-Malleability
- C:-Machinability
- D:-None of these

Correct Answer:- Option-B

Question83:-The multiplication  $0.1 \times 0.001$  is equal to

- A:-0.1
- B:-0.01
- C:-0.001
- D:-0.0001

Correct Answer:- Option-D

Question84:-Multiply  $\frac{6}{13}$  by the reciprocal of  $\frac{9}{16}$  is equal to

- A:- $\frac{96}{117}$
- B:- $\frac{32}{39}$
- C:- $\frac{54}{208}$
- D:-None of these

Correct Answer:- Option-B

Question85:-  $(3ab)^2$  is equal to

- A:-  $3a^2b^2$
- B:-  $9a^2b^2$
- C:-  $3ab^2$
- D:-None of these

Correct Answer:- Option-B

Question86:-One radian measure is equal to

- A:-  $\frac{90^\circ}{\pi}$
- B:-  $\frac{180^\circ}{\pi}$
- C:-  $\frac{270^\circ}{\pi}$
- D:-  $\frac{360^\circ}{\pi}$

Correct Answer:- Option-B

Question87:- $\sin \theta$  is equal to

A:-Opposite side / adjacent side

B:-Adjacent side / hypotenus

C:-Opposite side / hypotenus

D:-None of these

Correct Answer:- Option-C

Question88:-The value of  $1/\tan 45$  is equal to

A:-0

B:-1

C:-45

D:-1/45

Correct Answer:- Option-B

Question89:-The value of  $\sin^2 60 + \cos^2 60$  is equal to

A:-0

B:-1

C:-1/2

D:-2/3

Correct Answer:- Option-B

Question90:-Heat is a form of

A:-Work

B:-Power

C:-Energy

D:-None of these

Correct Answer:- Option-C

Question91:-Conventional representation of 1st angle and 3rd angle projection includes

A:-Two eccentric circles

B:-Two concentric circles

C:-Two circle of same diameter

D:-None of these

Correct Answer:- Option-B

Question92:-700×500×15 mm drawing board designated by

A:- "D\_0"

B:- "D\_1"

C:- "D\_2"

D:- "D\_3"

Correct Answer:- Option-C

Question93:-594×841 trimmed size of drawing sheet designated by

A:- "A\_0"

B:- "A\_1"

C:- "A\_2"

D:- "A\_3"

Correct Answer:- Option-B

Question94:-In 3rd angle projection the Top view (plan) is drawing

A:-Right side of elevation

B:-Left side of elevation

C:-Below the elevation

D:-Above the elevation

Correct Answer:- Option-D

Question95:-In 1st angle projection the end view from right side of an object is drawing

A:-Right side of elevation

B:-Left side of elevation

C:-Right side of plan

D:-Left side of plan

Correct Answer:- Option-B

Question96:-The symbol represent

A:-A.C. Motor

B:-D.C. Motor

C:-A.C. Generator

D:-D.C. Generator

Correct Answer:- Option-B

Question97:-The angle of isometric axis is

A:-270°

B:-120°

C:-360°

D:-130°

Correct Answer:- Option-B

Question98:-The number of a pentagon is

A:-3

B:-4

C:-5

D:-6

Correct Answer:- Option-C

Question99:-The isometric view of a circle is

A:-Parabola

B:-Ellipse

C:-Triangle

D:-Rectangle

Correct Answer:- Option-B

Question100:-The length of an arrow head is

A:-Same as width

B:-Two times of width

C:-Three times of width

D:-Four times of width

Correct Answer:- Option-C