

149/2017



Question Booklet
Alpha Code

A

Question Booklet
Serial Number

Total Number of Questions : 100

Time : 75 Minutes

Maximum Marks : 100

INSTRUCTIONS TO CANDIDATES

1. The Question Paper will be given in the form of a Question Booklet. There will be four versions of Question Booklets with Question Booklet Alpha Code viz. **A, B, C & D**.
2. The Question Booklet Alpha Code will be printed on the top left margin of the facing sheet of the Question Booklet.
3. The Question Booklet Alpha Code allotted to you will be noted in your seating position in the Examination Hall.
4. If you get a Question Booklet where the alpha code does not match to the allotted alpha code in the seating position, please draw the attention of the Invigilator IMMEDIATELY.
5. The Question Booklet Serial Number is printed on the top right margin of the facing sheet. If your Question Booklet is un-numbered, please get it replaced by new Question Booklet with same alpha code.
6. The Question Booklet will be sealed at the middle of the right margin. Candidate should not open the Question Booklet, until the indication is given to start answering.
7. Immediately after the commencement of the examination, the candidate should check that the Question Booklet supplied to him/her contains all the 100 questions in serial order. The Question Booklet does not have unprinted or torn or missing pages and if so he/she should bring it to the notice of the Invigilator and get it replaced by a complete booklet with same alpha code. This is most important.
8. A blank sheet of paper is attached to the Question Booklet. This may be used for rough work.
9. **Please read carefully all the instructions on the reverse of the Answer Sheet before marking your answers.**
10. Each question is provided with four choices **(A), (B), (C)** and **(D)** having one correct answer. Choose the correct answer and darken the bubble corresponding to the question number using Blue or Black Ball Point Pen in the OMR Answer Sheet.
11. **Each correct answer carries 1 mark and for each wrong answer 1/3 mark will be deducted. No negative mark for unattended questions.**
12. No candidate will be allowed to leave the examination hall till the end of the session and without handing over his/her Answer Sheet to the Invigilator. Candidates should ensure that the Invigilator has verified all the entries in the Register Number Coding Sheet and that the Invigilator has affixed his/her signature in the space provided.
13. Strict compliance of instructions is essential. Any malpractice or attempt to commit any kind of malpractice in the Examination will result in the disqualification of the candidate.





1. Sree Narayana Guru consecrated Siva idol at Aruvippuram in _____
A) 1885 B) 1886 C) 1887 D) 1888
2. Ayyankali started the first school for lower castes at _____
A) Perinad B) Venganur C) Kollam D) Varkala
3. Who among the following authored *Anandasutram* ?
A) Brahmananda Sivayogi B) Vagbhatananda
C) Vaikunta Swamikal D) Chattampi Swamikal
4. *Al Islam* published by Vakkam Abdul Khadir Moulavi was a _____
A) Daily B) Weekly C) Fortnightly D) Monthly
5. Who among the following was arrested in 1837 during the reign of Swati Thirunal ?
A) Vaikunta Swamikal B) Chattampi Swamikal
C) Swami Agamananda D) None of these
6. Who won the gold medal in hundred metres race in the IAAF World Championships 2017 ?
A) Usain Bolt B) Christian Coleman
C) Justin Gatlin D) None of these
7. Goods and Services Tax was introduced in India on _____
A) 1st April 2017 B) 1st March 2017 C) 1st July 2017 D) 1st June 2017
8. Ramnath Kovind is elected as the _____ President of India.
A) 13th B) 14th C) 15th D) 16th
9. Who won the 2017 Wimbledon men's singles title ?
A) Marlin Cilic B) Roger Federer
C) Rafel Nadal D) Novak Djokovic
10. Kerala government's LIFE Mission is related to _____
A) Provide food grains to the poor B) Medicare to the BPL families
C) Free education to the poor D) The construction of houses for the poor



11. The revolt of 1857 started at _____
A) Meerut B) Delhi C) Lucknow D) Kanpur
12. Who was the Principal of National College started in Calcutta during the time of Swadeshi movement ?
A) Rabindranath Tagore B) Rajani Kant Sen
C) Aurobindo Ghosh D) Mukunda das
13. How many policemen died in the Chauri Chaura incident ?
A) 12 B) 22 C) 28 D) 30
14. The followers of Khan Abdul Ghaffar Khan were known as _____
A) Brown Shirts B) Black Shirts C) Red Shirts D) Grey Shirts
15. The Anamudi peak is situated in the High Ranges of _____ district.
A) Thiruvananthapuram B) Idukki
C) Wayanad D) Kozhikode
16. The three east flowing rivers of Kerala are the tributaries of _____ river.
A) Kaveri B) Krishna C) Tungabhadra D) Vaigai
17. The Yamuna river merges with the Ganga river at _____
A) Devprayag B) Haridwar C) Kanpur D) Allahabad
18. Tiruchirappalli is situated on the banks of the _____ river.
A) Kaveri B) Amaravati C) Vaigai D) Mandovi
19. The construction of Hirakkud dam started during the _____ Five Year Plan.
A) Fourth B) Third C) Second D) First
20. Who was the first Chief Executive Officer of NITI Ayog ?
A) Amithab Kanth B) Aravind Panagiriya
C) Sindhusree Khullar D) Narendra Modi



21. Sweep of ceiling fan refers to
- A) Radius of circle formed by its rotation
 - B) Double the length of blade
 - C) The distance from the center of motor to tip of blade
 - D) Double the distance from center of motor to tip of blade
22. Unit for measurement of electric energy is
- A) KW
 - B) KwH
 - C) Volt
 - D) Volt ampere
23. When temperature of carbon increases, its resistance
- A) Decreases
 - B) Increases
 - C) Remains same
 - D) None of these
24. To decrease the resistance of any conductor, a resistance will be connected in
- A) Series
 - B) Series-parallel
 - C) Parallel
 - D) None of these
25. In India usually generating voltage is
- A) 440 V
 - B) 11000 V
 - C) 33000 V
 - D) 66000 V
26. In AC machines best efficiency is given by
- A) Transformer
 - B) Induction motor
 - C) Slip ring motor
 - D) Alternator
27. Interpoles are connected in
- A) Series with armature
 - B) Series with field
 - C) Parallel with armature
 - D) None of these
28. According to IE rules the permissible variation of frequency is
- A) 5%
 - B) 3%
 - C) 8%
 - D) 10%
29. In conduit wiring +ve and – ve wires are run in the same conduit to avoid
- A) Capacitive effect
 - B) Inductive effect
 - C) Both effects
 - D) None of these



30. The total capacitance of three condensers connected in series as $C_1 = 30 \mu\text{F}$, $C_2 = 15 \mu\text{F}$ and $C_3 = 20 \mu\text{F}$
- A) $6.66 \mu\text{F}$ B) $65 \mu\text{F}$ C) $9/60 \mu\text{F}$ D) $80 \mu\text{F}$
31. Induction motor runs at
- A) Synchronous speed B) Below Synchronous speed
C) Above Synchronous speed D) None of these
32. Short pitch winding is used because it
- A) Magnifies the voltage
B) Saves copper of the end rings
C) Improves the wave form of the induced EMF
D) Magnifies current
33. Generally at unity PF the voltage regulation of an alternator is
- A) Positive B) Negative C) Zero D) None of these
34. In three phase delta connection, line voltage is
- A) $\sqrt{3} V_{\text{ph}}$ B) $V_{\text{ph}}/\sqrt{3}$
C) Same as phase voltage D) Same as line current
35. Alternating current can induce voltage because it has
- A) High peak value B) Varying magnetic field
C) Constant magnetic field D) None of these
36. In two watt meter method of power measurement if the PF is unity then
- A) $W_1 < W_2$ B) $W_1 > W_2$ C) $W_1 = W_2$ D) $W_2 = 0$
37. Induction type watt meter can be used in
- A) AC only B) DC only
C) Both AC and DC D) None of these



54. Dynamo meter type meters are used to measure
- A) Only AC quantities B) Only DC quantities
C) Both AC and DC D) Pulsating AC only
55. Megger is used to measure
- A) Earth resistance B) Insulation resistance
C) Breakdown voltage of insulation D) Low resistance
56. Which one of the instrument has the same calibration for AC and DC ?
- A) Moving iron B) Moving coil
C) Hot wire D) Dynamo meter type
57. What type of motor is used in a food mixer ?
- A) DC shunt motor B) Universal motor
C) Capacitor start motor D) Shaded pole motor
58. The unit of luminous flux is
- A) Candela B) Steradian C) Lux D) Lumen
59. Which of the following is the most efficient as a light source ?
- A) Tungsten filament B) Black body
C) Carbon filament D) None of these
60. The gas inside the inner discharge tube of a sodium vapour lamp is
- A) Argon B) Neon C) Helium D) Hydrogen
61. How many light points are allowed in one circuit ?
- A) 10 points B) 15 points C) 20 points D) Any number



94. Temperature limit of class E insulation is
A) 50°C B) 80°C C) 300°C D) 120°C
95. Most commonly used rectifier now a days are
A) Rotary converter B) Mercury arc rectifiers
C) Solid state diodes D) None of these
96. In an ideal transformer
A) Windings have no resistance B) Core has no losses
C) Core has infinite permeability D) All of these
97. KWH meter can be classified as
A) Deflecting instrument B) Digital instrument
C) Recording instrument D) Integrating instrument
98. Fixed coil in a dynamometer type Watt meter is
A) Pressure coil B) Current coil
C) Power coil D) Dynamic coil
99. In MCB overload tripping is executed by
A) Magnetic coil B) Overload coil
C) Bimetal strip D) Solenoid
100. When silica gel in breather is saturated with moisture its colour changes from
A) Blue to pink B) Pink to blue
C) Blue to yellow D) Blue to red
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Space for Rough Work



Space for Rough Work