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Kerala Police Constable

Previous Year Paper
Telecommunication 2022



089/22

Question Booklet Alpha Code

A

Question Booklet Sl. No.

A

Total Number of Questions : 100

Time : 90 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.

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7. Identify the wrongly matched pair :

- A) T. K. Madhavan – Sivayogavilasam
- B) C. Krishnan – Mitavadi
- C) Brahmananda Sivayogi – Mokshapradeepam
- D) Kesavan Asan – Sujananandini

8. Which one of the following statements is not correct ?

- A) Basel Evangelical Mission (BEM) took the initiative of Spreading English Education in Travancore.
- B) Rev. Dawson started a school at Mattanchery in Kochi.
- C) Rajya Samacharam and Paschimodayam were published from Thalassery by Herman Gundert.
- D) The London Mission Society took the initiative of Spreading Western Education in Travancore in the beginning of the nineteenth century.

9. The book 'Kerala Simham' is written by

- A) C. V. Raman Pillai
- B) P. Kesavadev
- C) K. M. Panikkar
- D) Appu Nedungadi

10. The slogan 'American Model Arabikadalil' is related to

- A) Kayyur Revolt
- B) Nivarthana Agitation
- C) Attingal Revolt
- D) Punnapra Vayalar Struggle

11. Consider following statements :

- i. The idea of an Indian Constituent Assembly was put forward by M. N. Roy in the Newspaper 'Indian Patriot'.
- ii. The Cripps Mission was appointed in 1946.
- iii. In 1934, the Indian National Congress officially demanded for a Constituent Assembly.
- iv. The Constituent Assembly was set up as per the recommendation of the Cabinet Mission.

Which of the statements given above is/are correct ?

- A) i, ii, iv
- B) i, iii, iv
- C) iv, ii
- D) iii, iv

A

29. In FM the output noise can be further decreased by
A) Decreasing frequency deviation B) Increasing frequency deviation
C) Keeping deviation constant D) None of these
30. In a television the aspect ratio is defined as
A) The ratio of raster width to height
B) The ratio of raster height to width
C) The ratio of horizontal scanning frequency to vertical scanning frequency
D) None of these
31. Most commonly used antenna type with TV receiver is
A) Yagi antenna B) Rhombic antenna
C) Loop antenna D) V antenna
32. In case of Indian TV system the difference between video IF and sound IF is
A) 4.5 MHz B) 5.5 MHz C) 6 MHz D) 6.5 MHz
33. In television video transmitter the type of amplitude modulation used is
A) DSB B) SSB
C) VSB D) Suppressed carrier DSB
34. The Shadow mask in colour picture tube is used to
A) Reduce X-ray radiation
B) Ensure that each primary colour beam hits only its own dots
C) Increases screen brightness
D) None of the above
35. The colour TV system adopted in India is
A) PAL system B) NTSC C) SECAM D) None of these
36. Balun in a TV receiver is located
A) At AGC stage B) Between feeder and receiver
C) At antenna D) Between RF stage and mixer
37. In colour TV receiver colour killer circuit
A) Prevents colour over loading
B) Ensuring separation of colours
C) Cuts off the Chroma stage during monochrome reception
D) Cuts off reception during back porch

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38. Interlacing is used in TV frames to
- A) Ensure scanning of all lines
 - B) Avoid flicker
 - C) Produce illusion of motion
 - D) None of the above
39. In RGB colour model used in TV, complementary colour of green is
- A) Yellow
 - B) Red
 - C) Cyan
 - D) Magenta
40. A degaussing coil in colour television is used for
- A) Demagnetising transformer core
 - B) Demagnetising colour picture tube
 - C) Rotating directional antenna
 - D) Trap circuit
41. Which of the phenomenon caused, when Radio waves travel in two or more paths during propagation and produce slowly-changing phase differences between signals at the receiving end
- A) Fading
 - B) Absorption
 - C) Doppler shift
 - D) Diffraction
42. The region between the far end of ground waves received to the nearest point where the sky waves returns to earth is called as
- A) Angle of radiation
 - B) Skip distance
 - C) Skip zone
 - D) Multiple skip
43. The mechanism that causes the electromagnetic waves to return back to earth by anyone of layers of ionosphere is
- A) Only Reflection
 - B) Only Refraction
 - C) Only Diffraction
 - D) None of the above
44. 60 percentage of modulation is given to the carrier of an AM signal that has power of 1000 watts. Calculate the power in lower sideband.
- A) 600 watts
 - B) 180 watts
 - C) 90 watts
 - D) 320 watts
45. The major advantage of frequency modulation over amplitude modulation is
- A) Small frequency deviation
 - B) Higher carrier frequency
 - C) Smaller bandwidth
 - D) Reception is less noisy
46. Phase locked loop can be used as
- A) AM demodulator
 - B) FM demodulator
 - C) AM receiver
 - D) FM receiver

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83. A register that keeps track of next instruction to be executed
A) Accumulator
B) Instruction register
C) Data register
D) Program counter
84. Which of the following is used to scan the document containing text ?
A) Optical character recognition
B) Bar code reader
C) Joysticks
D) Magnetic-ink character recognition
85. An Enhanced Graphics Adapter display has a resolution of _____ pixels.
A) 320 × 320
B) 640 × 350
C) 824 × 680
D) 1024 × 768
86. LCD stands for
A) Liquid Colour Display
B) Lithium Crystal Display
C) Light Colour Display
D) Liquid Crystal Display
87. Printer which follow CMYK colour process
A) Ink-jet printer
B) Laser printer
C) Thermal printer
D) Dot-matrix printer
88. Fastest memory in computer system
A) Hard disk
B) Cache
C) ROM
D) RAM
89. Which of the following is a type of optical storage ?
A) Floppy disk
B) Hard disk
C) Pen drive
D) DVD
90. Latest intel core processor
A) Core i15
B) Core i9
C) Core i7
D) Core i3
91. Core of Linux operating system is
A) Kernel
B) Shell
C) Command
D) Application program
92. Which of these is not an operating system ?
A) Windows
B) Linux
C) Pascal
D) Unix

A

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Space for Rough Work



A

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