

**STATE LEVEL POLICE RECRUITMENT BOARD  
ANDHRA PRADESH, HYDERABAD**

Rc. No. 1239/R&T/Rect.1/2011

Dated: 30-12-2011

1. Applications are invited from the eligible candidates for recruitment to the following posts. The number of vacancies indicated is only provisional and is liable to alteration.

Sl. No.	Post Code No.	Name of the post	No. of vacancies*
01	31	Stipendiary Cadet Trainee (SCT) Sub Inspectors of Police (Communications)	38
02	32	Stipendiary Cadet Trainee Sub Inspector of Police (Men) in Police Transport Organisation	10
03	33	Stipendiary Cadet Trainee Assistant Sub Inspector of Police in Finger Print Bureau	29

\* This includes the backlog vacancies as given below.

**Backlog vacancies in category wise (Limited Recruitment) :**

Name of the post	BC-B	ST	ST (W)
Post code no.31			1
Post code no.32	1	1	

2. This recruitment to the posts mentioned in the Police Department is being made as per the provisions of the Andhra Pradesh Police (Stipendiary Cadet Trainee) Rules issued by the Government of Andhra Pradesh in G.O. Ms. No 315 Home (Pol.C) Department dated 13-10-1999 and the amendments thereon

3. The rule of Special representation (reservation) **i.e., BC-A, BC-B, BC-C, BC-D, BC-E, SC, ST and Ex.Servicemen** provided in Rule 22 of A.P. State & Subordinate Service Rules, 1996 will be applicable except in the case of special category i.e., CPP

**Pertaining to Backward Classes (paras 4 & 5)**

**4. Relaxation in upper age limit (as given in para 7 (B) (b) (i)) and / or reservation to 'BC-E group' or 'any category in BC-E group' will be subject to the adjudication of the litigation pending before the Honourable Courts.** However relaxation in upper age limit (as given in para 7 (B) (b) (i)) and / or reservation to 'BC-E group' is **applicable to first to the 14 categories** of BC-E group as per interim order on 25-03-2010 in Civil Appeal No(s). 2628-2637 of 2010 of Hon'ble Supreme Court of India. The castes mentioned in Sl. No. 15 are treated as 'OC' category (List is available in page 2 of the application form).

**5. Government have issued in G.O.Ms.No. 3, Backward Classes Welfare (C2) Department dated 04-04-2006, laying down the criteria to determine Creamy Layer among Backward Classes in order to exclude from the provisions of reservations. Government of Andhra Pradesh has adopted all the criteria to determine the Creamy Layer among Backward Classes as fixed by the Government of India. The Government of Andhra Pradesh have fixed the annual income limit at Rs. 4,00,000/-.**

- a) The candidates belonging to Backward Classes should submit the Community certificate in the format given in Annexure - II to avail relaxation in age. The certificate must have been issued by the competent revenue authority in terms of G.O. Ms. No. 58 SW (J) Dept., dated 12-05-1997.
- b) Only those candidates belonging to Backward Classes who do not belong to 'Creamy layer' as defined in G.O.Ms.No. 3, Backward Classes Welfare (C2) Department dated 04-04-2006 will be eligible to avail reservation. They should submit the certificate in the format given in Annexure - III regarding their exclusion from the Creamy Layer from the competent authority (Tahasildar) along with the Community certificate in the format given in Annexure - II.
- c) Candidates belonging to Backward Classes who belong to 'Creamy layer' are eligible to avail relaxation in age but not the quota for reservation. They should submit the Community certificate in the format given in Annexure - II.

6. The requisite educational qualification, age, physical standards, procedure to be followed for selection etc are given below. The candidates must read the instructions given in this notification as well as “instructions for filling the application form” carefully in their own interest.

**7. Eligibility Conditions:**

**A.** For the posts mentioned against Post Code no. 32 only men are eligible.

**B. Age Limit:**

- a) Must have attained the age of 21 years and must not have attained the age of 25 years as on 1<sup>st</sup> July, 2011 i.e., must have been born not earlier than 2<sup>nd</sup> July, 1986 and not later than 1<sup>st</sup> July, 1990
- b) The upper age limit prescribed in para (a) above will be relaxable as under;
  - i) upto a maximum of five years if a candidate belongs to a Backward Class
  - ii) upto a maximum of five years for the purpose of recruitment (other than limited recruitment) if a candidate belongs to a Scheduled Caste or a Scheduled Tribe
  - iii) upto a maximum of ten years for the purpose of limited recruitment if a candidate belongs to a Scheduled Caste or a Scheduled Tribe
  - iv) length of regular service limited upto a maximum of five years if a candidate is an employee of A.P. State Government (Employees of APTRANSCO, Discoms, APGENCO, APSRTC, Corporations, Municipalities, Local bodies etc. are not entitled for age relaxation)
  - v) three years in addition to the length of service rendered in the Army, Naval or Air Force of the Union for the candidates who served in the Army, Naval or Air Force of the Union
  - vi) three years in addition to the length of service rendered as a whole time Cadet Corps Instructor in NCC provided the candidate rendered a minimum service of 6 months as a whole time Cadet Corps Instructor in NCC and he has been released from NCC

- vii) upto a maximum of three years if a candidate is a retrenched temporary employee in the State Census Department with a minimum service of 6 months during 1991

**Save as provided above, the age limits prescribed can in no case be relaxed.**

**NOTE:** - The date of birth accepted by the SLPRB is that entered in the Secondary School Certificate or Matriculation or an equivalent examination certificate. No other document relating to age like horoscopes, affidavits, birth extracts from Municipal Corporation, service records and the like will be accepted.

**C. Minimum Educational Qualification:**

- i) For post code no. 31 :** The candidate must hold, as on 1<sup>st</sup> July, 2011, a Diploma in Electronics and Communication Engineering OR Electrical and Electronics Engineering OR Computer Engineering OR Information Technology OR Special Diploma Course in Electronics with specialisation in Computer Engineering OR Special Diploma Course in Electronics with specialisation in Communication Engineering awarded by the A.P. State Board of Technical Education and Training (OR) a qualification approved by the Government of Andhra Pradesh as equivalent to any of the above.
- ii) For post code no. 32 :** The candidate must hold, as on 1<sup>st</sup> July, 2011, a Diploma in Electrical Engineering OR Mechanical Engineering OR Automobile Engineering awarded by the State Board of Technical Education, Andhra Pradesh (OR) a qualification approved by the Government of Andhra Pradesh as equivalent to any of the above.
- iii) For post code no. 33 :** The candidate must hold, as on 1<sup>st</sup> July, 2011, a degree with Computer Science OR Computer Application OR Information Technology as one of the subjects awarded by any university in India, established or incorporated by or under a Central Act, Provisional Act of State or of any institution recognized by the University Grants Commission.

Note: The candidates who possess higher qualification than the prescribed one will also be considered for selection on par with the candidates who possess the prescribed qualification.

**D. Physical standards:** The candidates should meet the following requirements

**Men:**

- a) Height: Must not be less than 162 cms.
- b) Chest: Must not be less than 84 cms round the chest on full inspiration with a minimum expansion of 4 cms.

**Women:**

- a) Height: Must not be less than 152.5 cms
- b) Weight: Must not be less than 40 kgs

**NOTE :** Provided that in the case of **candidates belonging to aboriginal tribes** in the agency areas of Srikakulam, Vizianagaram, Visakhapatnam, East Godavari, West Godavari, Mahaboobnagar, Adilabad, Warangal and Khammam districts where the reserved quota could not be fully utilised for want of sufficient candidates possessing the requisite physical standards, the **physical standards shall be relaxed as specified below :**

**Men:**

- a) Height: Must not be less than 160 cms.
- b) Chest: Must not be less than 80 cms round the chest on full inspiration with a minimum expansion of 3 cms.

**Women:**

- a) Height: Must not be less than 150 cms
- b) Weight: Must not be less than 38 kgs

**E. Medical Standards :**

a) Eye Sight : Visual Standards required for the above selection shall be as follows:

i)

		<u>Right Eye</u>	<u>Left Eye</u>
(i) Distant Vision	--	6/6	6/6
(ii) Near Vision	--	0/5	0/5
		(Snellen)	(Snellen)

ii) Each eye must have a full field of vision.

iii) Colour blindness, squint or any morbid condition of the eye or lids of either eye shall be deemed to be a disqualification.

b) The candidate should possess sound health and be free from any bodily defect or infirmity which will render him unfit for police service.

c) Candidates who have the following ailments or defects will not be considered for recruitment to any post specified in this rule

i) Physically handicapped

ii) Knocking-knees, pigeon chest, flat foot, Varicose veins, Hammer toes, fractured limbs, decayed teeth, stammering, hard of hearing and abnormal psychological behaviour

**NOTE** : In order to prevent disappointment, candidates are advised to have themselves examined by a Civil Surgeon before applying for the examination to ensure that they meet the prescribed Physical and Medical Standard.

**8. Application forms:** Candidates must apply in the Application Form devised by the Board for the examination, which can be downloaded from website [www.apstatepolice.org](http://www.apstatepolice.org) in the recruitment folder. They are requested to go through the notification thoroughly and it is available on the website. The application form and notification are not issued from any police office.

9. **LAST DATE FOR RECEIPT OF APPLICATIONS:** Eligible candidates should submit the duly filled in application form along with the copies of the necessary certificates at any of the places mentioned below on any working day from 01-02-2012 to 15-03-2012 in between 10.00 hours and 13.00 hours. **The candidates should appear and submit the application in person and should not send their applications either by post or through their nominee.**

Sl. No.	Place
01	Visakhapatnam Range Police Office, Visakhapatnam
02	Eluru Range Police Office, Eluru
03	Guntur Range Police Office, Guntur
04	Kurnool Range Police Office, Kurnool
05	Karimnagar Range Police Office, Karimnagar
06	SAR CPL Parade Ground, Amberpet, Hyderabad

10. A prescribed fee of Rs. 50/- (Rupees fifty only) in cash should be remitted at the time of submission of each application form. Demand Drafts, Cheques, Indian Postal Order etc. will not be accepted. SC/ST candidates are exempted from paying this fee.

11. Those who intend to apply for more than one category of posts need to submit only **one application form.**

12. Applications submitted after 1300 hrs on 15-03-2012 will not be accepted. **Incomplete applications or applications without prescribed enclosures also will not be entertained.** The candidate who submits his/her application between 01-02-2012 and 15-03-2012 will receive his / her Hall Ticket i.e., Identity Card (Candidate copy) on the same day afternoon or on the next day. The two thumb impressions and photo of the applicant will be captured at the time of submission of application form.

13. **CANDIDATES TO ENSURE THEIR ELIGIBILITY FOR THE EXAMINATION:** The candidates applying for the examination should ensure that they fulfill all eligibility conditions for admission to the examination. Their admission at all the stages of the examination will be purely provisional and subject to satisfying the prescribed eligibility conditions.

Mere issue of identity card to the candidate will not imply that his/her candidature has been finally cleared by the Board.

The board will take up verification of eligibility conditions with reference to original documents only after the candidate has finally qualified.

14. **Selection Procedure/Scheme:** - The Selection Procedure/Scheme of the Exam will be as follows:

**A) Preliminary Selection Test:**

**Men:** Candidates will have to run three (3) kms within 20 minutes

**Women:** Candidates will have to run 2.5 kms within 20 minutes

**B) Physical Efficiency Test (PET)** : The candidates qualified in the above preliminary selection test and who possess the minimum physical standards will be required to undergo the following tests and qualify as specified below:

**Men:** Candidates must qualify in all the items of PET mentioned below: -

Sl. No.	Item	Qualifying Time / Distance	
		General	Ex. Servicemen
01	100 metres run	15 seconds	16.5 seconds
02	Long jump	3.80 mtrs.	3.65 mtrs.
03	Shot put (7.26 Kgs)	5.60 mtrs.	5.60 mtrs.
04	High jump	1.20 metres	1.05 metres
05	800 metres run	170 seconds	200 seconds

**Women:** Candidates must qualify in all the items of PET mentioned below: -

Sl. No.	Item	Qualifying Time / Distance
01	100 metres run	18 seconds
02	Long jump	2.75 mtrs.
03	Shot put (4 Kgs)	4.50 mtrs.



C) **Written Examination:**

a) **For post code nos. 31, 32 and 33:** Candidates who qualify in the Physical Efficiency Test will be required to appear for a written examination in five papers (each of three hours duration) as given below. The syllabus is given in Annexure I.

Paper	Subject	Max. Marks
Paper I	English (Descriptive in nature)	100
Paper II	Telugu (Descriptive in nature)	100
Paper III	Arithmetic and Test of Reasoning / Mental Ability (Objective in nature)	100
Paper IV	General Studies (Objective in nature)	100
Paper V	Technical Paper (Objective in nature)	200

**Note:** i) The minimum marks to be secured by a candidates in order to qualify in the written examination is 40% for OCs; 35% for BCs; and 30% for SCs/STs and Ex.Servicemen in each paper.

ii) Papers I and II are only qualifying in nature. The cases of the candidates who do not secure the minimum qualifying marks in these papers i.e., papers I and II will not be considered further in the selection process irrespective of their performance in papers III, IV & V. The marks secured in these papers i.e., papers I and II will not be taken into account for final selection.

iii) Papers I and II referred above will include questions that are subjective and objective in nature. They have to answer the questions using blue / black pen.

iv) Questions in Papers III, IV and V will be objective in nature and will be set in English and Telugu languages. **Candidates have to answer the questions on an OMR answer sheet using Blue / Black Ball Point pen only. For this purpose candidates should bring Blue / Black Ball Point pens along with them.**

v) Syllabus in Paper V i.e., Technical Paper (Objective in nature) is different for each post code nos. 31, 32 and 33.

**D) Selection:** The final selection will be strictly on relative merit of the candidates in each category, as obtained by them based on their score in the written examination out of a maximum of 400 marks (papers III, IV and V). As per the provisions of “The Andhra Pradesh Public Employment (Organisation of Local cadres and regulation of direct recruitment) Order, 1975”, the rule of reservation to local candidates is not applicable.

**E) Preference:** When two or more candidates in a particular category obtain equal marks, preference will be given to the candidate who was born earlier.

**F)** In the case of post code nos. 31 and 33, where the reserved quota for women could not be fully utilised for want of sufficient candidates, the vacancies shall be filled by men with the same category.

15. a) **Quotas in Special Categories:** 2% for Children of Police Personnel (CPP)

b) Candidates who claim reservation / quota under following special category should satisfy the following condition: -

**CPP** – Children of Police Personnel upto the rank of Inspector of Police in service in A.P. Police Department as well as Children of Police Personnel upto the rank of Inspector of Police, who after serving in the A.P. Police Dept. have, either retired or died, will come under this special category.

**Children of Police Personnel who were compulsorily retired or removed or dismissed from service will not be considered for quota under ‘Children of Police Personnel’ (CPP)**

**Note:**

i) Candidates who claim reservation/quota under CPP should satisfy the above conditions and submit the certificate as per annexure IV. The certificate pertaining to CPP should be obtained on or after the date of notification i.e., 30-12-2011 from the competent authority. **The certificate obtained before the date of notification is not valid and will not be entertained.**

ii) The vacancies, which remain unfilled in any of the special category for want of eligible candidates will be added to the vacancies to be filled by direct recruitment.

16. Candidates who claim reservation as Ex.Servicemen should satisfy the conditions mentioned in Rule 2 (16) of A.P. State and Subordinate Service Rules and having the necessary certificate from the competent authority.

17. The selection of the candidates will be provisional and subject to verification of the original certificates, antecedents and medical examination.

18. **Antecedents verification:** No person shall be eligible for appointment to any service by direct recruitment unless he satisfies the selection authority as well as the appointing authority that his character and antecedents are such as to qualify him for such service.

**19. Suppression of material facts or withholding any factual information in the attestation form (which would be supplied to the candidates who will be provisionally selected) will disqualify the candidate from being considered for appointment. In the event of any information being found false or incorrect or ineligibility being detected at any time even after appointment, he / she will be discharged from service forthwith by the appointing authority without giving any notice.**

**20. The candidates who will be selected to the posts mentioned in the Police Department will be appointed to the regular posts only on successful completion of training.**

21. The candidates who were provisionally selected for any one of the post specified in this notification and is an employee of A.P. State Government / any other State Government / Central Government / any Government undertaking can join training only after relief / resignation in the earlier service.

**22. Time limit for submission of attestation forms (or) other relevant documents (or) attend medical examination (or) join the training:** The candidates who are provisionally selected for any one of the post specified in this notification will be asked to submit an

attestation form, produce other relevant documents and attend medical examination on a specified date. The candidates who become eligible to be sent for training will be asked to join the training on a specified date. If any candidate fails to respond and fails to submit the necessary form or document or attend the medical examination or join the training on a specified date, his / her provisional selection may be cancelled without prior notice to the candidate.

**23. Stipend and Allowance:** During the period of institutional training (regular as well as extended) candidates shall be eligible for stipend as fixed by the Government from time to time. On successful completion of training, they will be appointed in the regular time scale of pay as mentioned under para 24 below.

**24. Scale of pay:** (a) For Post Code Nos. 31 and 32 : Rs. 14,860 -- 39,540/-  
(b) For Post Code No. 33 : Rs. 11,860 -- 34,050/-

25. The employees who are appointed on or after 01-09-2004 are covered by the Contributory Pension Scheme. The existing Pension Scheme as per A.P. Revised Pension Rules, 1980 will not be applicable to them.

**26. Check List**

1. The candidates are requested to check their eligibility carefully and
  - a) fill in all the relevant columns in the application form
  - b) care should be taken to ensure that the preference for Post Code Nos.31 to 33 (for male candidates) and for Post Code Nos.31 and 33 (for female candidates).
  
2. Copies of the following documents must be enclosed in support of the information given in the form where necessary. Failure to enclose the same will lead to rejection of the application form.
  - a) Secondary School / Matriculation certificate or equivalent certificate in support of the date of birth
  - b) Educational qualification – As required in para 7(C) of this notification.

- c) BC candidates who wish to claim concession in age and also reservation specified for the Backward Classes should submit the Community certificate in the format given in Annexure - II and also Annexure - III and the certificate(s) must have been issued by the competent revenue authority not below the rank of Mandal Revenue Officer or equivalent.
- d) SC / ST candidates who wish to claim concession in age and also reservation specified for the SC / ST should submit the Community certificate in the format given in Annexure - II and the certificate must have been issued by the competent revenue authority not below the rank of Mandal Revenue Officer or equivalent.
- e) Certificate from the competent authority in respect of State Government employees / those who worked in the Army, Naval or Air Force of the Union / NCC Instructors / retrenched temporary employee in the State Census Department claiming age concession.
- f) Certificate of CPP wherever applicable (Annexure IV)
- g) Ex-Servicemen certificate etc., wherever applicable.

**27. The Board will not entertain any correspondence from any candidate**

(M.MALAKONDAIAH I.P.S.)  
CHAIRMAN  
STATE LEVEL POLICE RECRUITMENT BOARD  
ANDHRA PRADESH, HYDERABAD

## ANNEXURE - I

### SYLLABUS FOR WRITTEN EXAMINATION

#### **PAPER I: ENGLISH (DESCRIPTIVE TYPE)**

The candidate's understanding of the English language, its correct usage and his writing ability would be tested. Questions on short essay, comprehension, précis, letter writing, paragraph writing / report writing, translation from English to Telugu etc. would be included

#### **PAPER II: TELUGU (DESCRIPTIVE TYPE)**

The candidate's understanding of the Telugu language, its correct usage and his writing ability would be tested. Questions on short essay, comprehension, précis, letter writing, paragraph writing / report writing, translation from Telugu to English etc. would be included

#### **PAPER III: ARITHMETIC & TEST OF REASONING / MENTAL ABILITY (OBJECTIVE TYPE) (200 QUESTIONS)**

**Arithmetic:** It will include questions on problems relating to number system, simple interest, compound interest, ratio & proportion, average, percentage, profit & loss, time & work, work & wages, time & distance, clocks & calendars, partnership, mensuration etc.

**Test of Reasoning:** It will include questions of both verbal & non-verbal type and include question on analogies, similarities and differences, spatial visualisation, spatial orientation, problem solving, analysis, judgment, decision making, visual memory etc

#### **PAPER IV: GENERAL STUDIES (OBJECTIVE TYPE) (200 QUESTIONS)**

1. General Science - contemporary developments in science and technology and their implications including matters of everyday observation and experience, contemporary issues relating to protection of environment as may be expected of a well educated person who has not made a special study of any scientific discipline.
2. Current events of national and international importance.
3. History of India – emphasis will be on broad general understanding of the subject in its social, economic, cultural and political aspects. Indian National Movement.
4. Geography of India
5. Indian Polity and Economy – including the Country's political system, rural development, planning and economic reforms in India.

**PAPER V: TECHNICAL PAPER (OBJECTIVE TYPE) (200 QUESTIONS)**

**a) For post code no. 31:**

1. Materials and Components: Structure of properties of Electronic Engineering, materials, conductors, semiconductors and insulators, magnetic, ferroelectric, piezoelectric, ceramic, optical and superconducting materials. Passive components and characteristics, Resistors, Capacitors and Inductors; Ferrites, Quartz crystal, Ceramic resonators, Electromagnetic and Electromechanical components.
2. Physical Electronics, Electron Devices and ICs : Different types of diodes and their characteristics, Bipolar junction transistors, Field transistors, Field effect transistors, power switching devices like SCRs, CTOs, power MOSFETs Basics of ICs-bipolar, MOS and CMOS types, Basics of Opto- Electronics
3. Network Theory : Network analysis techniques; Network theorem, transient and steady state sinusoidal response, Transmission criteria: delay and rise time Elmore's and other definition, effect of cascading. Elements of network synthesis.
4. Electromagnetic Theory : Transmission lines; basic theory, standing waves, matching applications, microstrip lines; Basics of wave guides and resonators; Elements of antenna theory.
5. Electronic Measurements and Instrumentation : Basic concepts, standards and error analysis; Measurements of basic electrical quantities and parameters; Electronic measuring instruments and their principles of working; analog and digital comparison, characteristics, applications. Transducers; Electronic measurements of non-electrical quantities like temperature, pressure, humidity etc. Basics of telemetry for industrial use.
6. Power Electronics : Power Semiconductor devices, Thyristor, Power transistor, MOSFETs Characteristics and operation, AC to DC convertors; 1 – phase and 3 phase DC to DC convertors, AC regulators, Thyristor controlled reactors, switched capacitor networks, Invertors; Single-phase and 3 phase, Pulse width modulation, Sinusoidal modulation with uniform sampling, Switched mode power supplies.
7. Analog Electronic Circuits : Transistor biasing and stabilization, small signal analysis, Power amplifiers, Frequency response, Wide band techniques, Feedback amplifiers, Tuned amplifiers, Oscillators, Rectifiers and Power supplies, Operational Amplifier, other linear integrated circuits and applications, Pulse shaping circuits and waveform generators.
8. Digital Electronic Circuits : Transistors as a switching element; Boolean algebra; simplification of Boolean functions; Karnaugh Map and applications; IC logic gates and their characteristics; IC logic families; DTL, TTL, ECL, NMOS, PMOS and CMOS gates and their comparison; Combinational logic circuits; Half adder; full adder, Digital Comparator; Multiplexer De-multiplexer; ROM and their applications; Flip-flops, R-S, J-K, D and T flip-flops; Different types of counters and registers; waveform generators; A/D and D/G convertors; Semiconductor memories.

9. Communication Systems and antennas: Basic information theory, Modulation and detection in analogue and digital systems, Sampling and data reconstruction, Quantization & Coding, time division and frequency division multiplexing, Equalisation, Optical Communication; in free space & fiber optic; frequency spectrum analysis, Propagation of signals at HF, VHF, UHF and microwave frequency; Satellite communication, and Mobile communications. Antennas, applications, cellular and PCS antennas.
  
10. Microwave Engineering : Microwave tubes and solid state devices, Microwave generation and amplifiers, Wave guides and other Microwave Components and Circuits, Micro-strip circuits, Microwave antennas, Microwave measurements, Masers Lasers Microwave propagation. Microwave Communication Systems- terrestrial and satellite based.
  
11. Computer Engineering : Number Systems; Data representation, Programming; Elements of a high level programming languages, use of basic data structures, Fundamentals of computer architecture processor design, Control unit design, Memory organization, I/O system organization, Personal computer and their typical uses.
 

Mother board peripherals, accessories, windows operating system, PC assembly and software installation, processor management, storage management, file systems, networking & LAN, basics of WAN, WAN protocols, networking management, system administration, web applications.

Data structures using C, data base management concepts of SQL, schema objects, Programming Languages C,C++, Visual basics
  
12. Microprocessors: Microprocessor Architecture-Instruction set and simple assembly, language programming, Interfacing for memory and I/C, Applications of Microprocessor in Telecommunications and power system.
  
13. Television Engineering : Picture tube construction and working principle. Deflections Camera tubes, Basic T.V. system. Scanning, Synchronization, Composite Video Signals, aspect ratio, resolution, flickering, pictures, sound broad casting in F.M., V.H.F. and U.H.F. Channels, typical response of video I.F. amplifiers, use of wave traps, video amplifiers, nature of video signals. Sync Pulses and blanking pulses in the video signals, differentiating circuit used for pulse separation. Horizontal deflection principle. Principle of video cameras, video cassette recorder. Principle of closed circuit T.V. system. Video Conferencing
  
14. Radars and Landing systems : Principles of operation of Radar, Radar range equation, modification of Radar range equation considering receiver noise and radar frequencies. Working of Pulsed radar, function of duplexer and modulator, Radar beacon. Principle of C.W radar, Doppler frequency shift, FMCW radar, FM altimeter, display systems, Basic principles of MTI radar and Tracking radar. Aircraft landing systems, ILS, GCA, ARSR and SRA.



15. Control systems : Transient and steady state response of control systems, effect of feedback on stability and sensitivity, Root locus techniques; Frequency response analysis, concepts of gain and phase margins, Constant-M and Constant-N Nichol's chart, Approximation of transient response from closed loop frequency response, Design of Control Systems, Compensators Industrial controllers.
16. Telephone Systems: PSTN telephone network, Local Loops, signals and noise in telephone systems, telephone instruments, FDM, Digital transmission, digital Local loops, EPABX\_FAX, internet telephony. GSM and CDMA phone system

Multiplexing and multiple access techniques: digital subscriber line, Frequency Division multiplexing and access, Time division multiplexing and multiple access, spread- spectrum, Code division multiple access. Teleconferencing

b) **For post code no. 32:**

Basic Mechanical Engineering, Workshop Technology, Automobile Power Plants, Strength of materials and fluid Mechanics, Engineering Material and Manufacturing Process, Machine Drawing, Theory of Machines, Industrial Management and Entrepreneurship, Automobile servicing and maintenance and Diagnosis and Testing Automobile Servicing and Maintenance, Farm Machines and Equipment, Motor Transport Organisation and Fleet Management, Motor Transport Organisation Environmental Management. Automobile Electrical System, Computers and Information Technology, Leadership Qualities.

c) **For post code no. 33:**

**1. Computer Hardware:**

- i) Computer Architecture: Fundamentals of Computers, PC Assembling, Installation, Trouble Shooting, Viruses.
- ii) The Memory System: Memory Hierarchy, ROM, RAM, DRAM, Storage Devices, Secondary memory and RAID and its Levels; Concepts of high speed memories, CPU, NIC cards.
- iii) Computer Peripherals: Keyboard, Mouse, Video Cards, Monitors, Liquid Crystal Displays (LCD), Digital Camera, Sound Cards, Printers, Modems, Scanners, Power Supply and etc.

**2. Computer Software:**

Operating Systems: Computer fundamentals, DOS Commands, windows accessories & utilities.

Windows: Windows Generations – Installation and maintenance, File management, Creating user accounts and passwords, Administrative tools, Control panels, Services, Settings, Multimedia, printers.

Data Base Management, basic concepts, RDBMS, Data types, tables, views, transactions, concurrency, reports

### **3. Application Software:**

MS-Office: MS- Word : Basics, file operations, formatting & editing text, tables, inserting objects and page design, macros and mail merge, creating documents and printing.

MS-Excel: Cell formatting, graphic objects and charts, database, pivot tables, data validation. Maths functions and calculations, templates, file protection and printing

MS Power Point: Essential elements of presentation, creating and adding slides, format, design, layout, slide show presentations and printing.

MS Access: Database, Tables, Data sheets, Queries, Forms, Date Entry and Editing. Reports.

### **4. Networking & Security Management:**

The Topologies – Types of Networks: Local Area Networks (LAN), Metropolitan Networks (MAN), Wide Area Networks (WAN) – Firewall Policy, Packet filters, Application Gateway, Advanced authentication mechanism. Anti virus concepts, Encryption, VPN, Internet, Intranet

**Awarding of marks:** In papers III, IV and V, for each question the candidate will be awarded **full marks** if he darkened only one bubble that corresponds to the correct answer. In case the candidate has not darkened any bubble, he will be awarded **zero mark** for that question. In all other cases, **50% of full marks will be awarded as negative mark for that question**

**ANNEXURE – II**

**FORM FOR COMMUNITY, NATIVITY AND DATE OF BIRTH CERTIFICATE**

Serial No.

S.C.  
S.T.  
B.C.

District Code:  
Mandal Code:  
Village Code:

Certificate No:

**COMMUNITY, NATIVITY AND DATE OF BIRTH CERTIFICATE**

(1) This is to certify that Sri/Smt./Kum \_\_\_\_\_  
Son/Daughter of Sri \_\_\_\_\_ of  
Village/Town \_\_\_\_\_ Mandal \_\_\_\_\_ District  
\_\_\_\_\_ of the State of Andhra Pradesh belongs to \_\_\_\_\_

Community which is recognised as S.C./S.T./B.C. sub-group \_\_\_\_\_

The Constitution (Scheduled Castes) Order, 1950  
The Constitution (Scheduled Tribes) Order, 1950

G.O. Ms. No. 1793, Education, dated 25-09-1970 as amended from time to time (BCs) /  
S.Cs., S.Ts. list ( modification) Order, 1956 S.Cs. and S.Ts. (Amendment) Act, 1976.

(2) It is certified that Sri/Smt./Kum \_\_\_\_\_ is a native  
of \_\_\_\_\_ Village/Town \_\_\_\_\_ Mandal  
\_\_\_\_\_ District of Andhra Pradesh.

(3) It is certified that the place of birth of Sri/Smt./Kum \_\_\_\_\_ is  
\_\_\_\_\_ Village/Town \_\_\_\_\_ Mandal  
\_\_\_\_\_ District of Andhra Pradesh.

(4) It is certified that the date of birth of Sri/Smt./Kum \_\_\_\_\_ is day  
\_\_\_\_\_ month \_\_\_\_\_ year \_\_\_\_\_ (in words)  
\_\_\_\_\_ as per the declaration given by his/her  
father / mother / guardian and as entered in the school records where he/she studied.

Signature:  
Date :  
Name in Capital Letters:  
Designation:

(Seal)

Explanatory Note: - While mentioning the community, the competent authority must mention the sub-caste (in case of Scheduled Castes) and sub-tribe or sub-group ( in case of Schedules Tribes) as listed out in the S.Cs. and S.Ts (Amendment) Act, 1976.

**ANNEXURE – III**

**APPLICATION CUM CERTIFICATE TO DECIDE THE CREAMY LAYER  
STATUS OF A PERSON BELONGING TO BC/OBC CATEGORY**

1. Name of the Applicant:
2. Date of Birth:
3. Caste and Group:  
(Certificate issued by the competent authority  
should be enclosed)
4. Religion:
5. Address :
  - a) Present Address: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
  - b) Permanent Address: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
6. Occupation of the Applicant:
7. Name of the Father:
8. Date of Birth of Father:
9. PAN No. / TAN No. of the Father:
10. Name of the Mother:
11. Date of Birth of Mother:
12. PAN No. / TAN No. of the Mother :

**OCCUPATION / INCOME / WEALTH STATUS OF PARENTS AND FAMILY**

Father

Mother

**A) Constitutional posts**

i) Holding / held any Constitutional post		
ii) If yes, Name of the post holding / held		

**B) Government Employment**

i) Holding / held any Government Employment		
ii) If yes, Employment under Central Govt. / State Govt. / Public Sector Undertaking		
iii) Designation of initial appointment		
iv) Status of initial appointment (Group-I or II or III or IV)		
v) Designation of present post held and status of the post		
vi) If the initial appointment is of Group II Category and the individual was promoted to Group-I category, date of promotion and age at which promoted to Group-I category		

**C) Military/Paramilitary forces**

i) Designation of the post holding or held		
ii) Is the post holding or held Is equivalent to Colonel or above		

**D) Land holdings possessed by the family (Father, Mother and unmarried children)**

- i) Extent of double crop irrigated land
- i) Extent of single crop irrigated land
- ii) Extent of unirrigated / dry land
- iii) Nature of Crops / Plantations raised
- iv) If the entire land possessed by the family is irrigated land, does the extent of irrigated land exceed 85% of the Ceiling limit as per Land Ceiling Act:
- v) If the land possessed by the family is both irrigated and unirrigated land and after conversion of unirrigated land into irrigated land on the basis of conversion formula, does the extent of irrigated land so obtained exceed 80% of the Ceiling Limit as per Land Ceiling Act.
- vi) If the plantations like Rubber, Coffee, Tea etc. are raised, the annual income from them during last three years.

**E) Income from other sources - Private employment, Professional Services, Business, Commerce, Rents etc.**

- i) Sources of income to the Family with full details of source:
  - Private employment
  - Professional Services
  - Business
  - Commerce
  - Rents
  - Others
- ii) The annual income during last three years year wise:  
(enclose income tax returns)

**F) Wealth Tax for having vacant land and / or building (s) in urban areas and urban agglomeration**

- i) Location of property and value
- ii) Details of property
- iii) Use to which it is put
- iv) Whether Wealth Tax is being paid and Tax paid per annum

**DECLARATION BY THE APPLICANT AND PARENTS OF THE APPLICANT**

It is certified that the above mentioned particulars are true to the best of our knowledge and belief.

**Signature of Mother**

**Signature of the Father**

**Signature of the Applicant**

**CERTIFICATE BY THE ISSUING AUTHORITY**

The particulars mentioned above have been verified and found that

- a) The applicant does not come under creamy layer of BCs/OBCs under any of the categories.
- b) The applicant comes under creamy layer of BCs/OBCs under the category of \_\_\_\_\_ (A/B/C/D/E/F) mentioned above

**Signature of the Issuing Authority**

**ANNEXURE – IV**

**CHILDREN OF POLICE PERSONNEL (CPP) CERTIFICATE**

This is to certify that Sri / Smt. /Kum. \_\_\_\_\_  
residing in House No. \_\_\_\_\_, \_\_\_\_\_ street \_\_\_\_\_  
Village, \_\_\_\_\_ Mandal, \_\_\_\_\_ district/ town/city is  
the son / daughter of Sri / Smt \_\_\_\_\_ who is / was in  
the service of the A.P. Police Department.

2. The candidate's parent was enrolled on \_\_\_\_\_ in the A.P. Police Department  
in the rank of \_\_\_\_\_ in \_\_\_\_\_ unit and is in service /  
retired / died in the rank of \_\_\_\_\_ in \_\_\_\_\_  
unit as on 30-12-2011.

3. The candidate's parent does not fall under any of the following categories

- a) Compulsorily retired
- b) removed from service
- c) dismissed from service

Date:

Signature and Designation of  
Unit Officer with seal