



UTTAR PRADESH PUBLIC SERVICE COMMISSION

Advertisement No.-
A-2/E-1/2026
Date: 03.08.2026

**1. Manager (System) Examination-2026, 2. Senior Programmer Examination-2026,
3. Programmer Grade-2 Examination-2026, 4. Computer Operator Grade-B Examination-2026**
Date Of Commencement Of On-line Application : 03.08.2026
Last Date for Payment of Examination Fee in the Bank & Submission of On-line Application: 03.09.2026
Last Date for Correction/Modification in submitted On-line Application & Fee Reconciliation: 10.09.2026

IMPORTANT

- (1) (a) It is mandatory for the candidates to make One Time Registration (O.T.R.) and obtain O.T.R. number before applying online.
(b) Those candidates who have not obtained O.T.R. number, must obtain it from commission's website <https://otr.pariksha.nic.in> 72 hours before the submission of online application.
(c) Only after obtaining O.T.R. number a candidate may submit online application through commission's website <https://uppsc.up.nic.in>.

- (2) At the time of online application the candidates are directed to ensure the preservation of information regarding all the stages (i.e. O.T.R., Fee payment, Final submission, Qualification related modification/error correction etc.) in soft/hard copy for future references.
(3) It is clarified to the candidates that at the stage of examination, the hard copy of the documents and Online Application should not be sent to the commission.
(4) The candidates must send hard copy of their on-line applications and enclose self attested copies of all marksheets and certificates in support of their claims rendered in the online application when asked for. In this connection, a separate press communique shall be published in due course by the commission.

SPECIAL NOTICE :-

- (a) The candidates will be entirely responsible for on-line submission of application. The application of the candidate will be accepted only after the payment of the fee in the bank till the last date of fee submission.
(b) Candidates are directed to visit the website of the commission continuously for updates. All future information/instructions will be sent to the registered mobile number and email ID as linked in O.T.R. by SMS or email.

1. IMPORTANT INFORMATION FOR CANDIDATES APPLYING ONLINE

This advertisement is on the website of the commission <https://uppsc.up.nic.in>. 'O.T.R. BASED APPLICATION' system is applicable for applying against this advertisement. Application sent through any other medium will not be accepted. Therefore, candidates have to apply online only.

The candidates applying online are expected to go through the following instructions thoroughly and apply accordingly:- When the candidate clicks on the "ALL NOTIFICATIONS/ ADVERTISEMENTS" in the Commission's website <https://uppsc.up.nic.in>, the 'ONLINE ADVERTISEMENTS' will automatically be displayed, which has following 3 parts:-

- (i) User Instructions
(ii) View Advertisement
(iii) Apply

The Instructions for filling Online form have been given in User Instructions. The candidates desirous to see the respective advertisement will have to click on "View Advertisement". Thereafter, a full advertisement will be displayed alongwith Sample Snapshots of Online Application procedure.

'Online Application' will be completed in four stages :-

First Stage:- On clicking 'Apply', 'Authenticate with O.T.R.' will be displayed with respect to the examination and on clicking 'Authenticate with O.T.R.', 'Have You Completed Your O.T.R. Registration' will be displayed, in which the candidate will have to tick 'Yes' or 'No'. If the candidate:-

(i) Ticks on 'Yes' and clicks on 'Go' button, then 'Enter your O.T.R. Number' will be displayed wherein he/she has to fill O.T.R. Number and click on 'Proceed' button. On clicking 'Proceed' button, 'Click here to Authenticate' will be displayed, clicking whereupon the candidate may authenticate through O.T.P. received on his/her registered mobile no./email ID or O.T.R. password. Having completed the process of Authentication, all personal details of the candidate (as filled in O.T.R.) will be displayed automatically. The candidate will have to fill only essential qualification as required for the post.

(ii) Ticks on 'No' and clicks on 'Go' button:- (a) First of all, the candidate has to obtain One Time Registration Number from O.T.R. Web-portal (<https://otr.pariksha.nic.in>) of the Commission. (b) After obtaining O.T.R. number the candidate will have to apply online according to the process adopted in First Stage.

Second Stage:- The First Stage procedure having been completed the 'Applicant Dashboard' will automatically be displayed on the screen. The candidate will have to click on 'Submit Details' under 'Application Part-2' against applied post, thereafter the permanent and correspondence address along with application form will automatically be displayed on the screen from O.T.R. along with the preferential qualifications prescribed for the post. The candidate will have to choose Yes/No option against each preferential qualification.

Third Stage:- After the completion of the procedure of Second Stage, 'Fee Confirmation Window' will automatically be displayed on the screen under which upon clicking on 'Yes' option in front of 'Proceed for fee payment' Home Page of 'SBI MOPS' will be displayed comprising of 03 modes of payment:- (i) NET BANKING (ii) CARD PAYMENTS and (iii) OTHER PAYMENT MODES.

After payment of the required fee by any one of the above prescribed modes, 'Payment Transaction Slip' shall be displayed alongwith detail of fee payment, the print of which must be taken by clicking on 'Printer Icon'. In the event of 'Payment Failed' the candidate has to go to 'Candidate Dashboard login' and after filling the O.T.R. number proceed to authenticate through O.T.P. or O.T.R. password and after login click on 'Pending Payment' to pay the fee, compulsorily for online application.

Note: It is mandatory to make payment of examination fee in the bank of 'ONLINE APPLICATION' Process by the candidate till the last date and time fixed for it. Candidates should take a print out of the same and keep it safe.

Fourth Stage:- After completing the procedure of the Third Stage the application form of the candidate will automatically be displayed on screen, the print of which may be obtained by the candidate. The candidate will have to take the print of online application and keep it safe with himself/ herself to produce it in the office of the commission when required in case of any discrepancy, else his/her request/ claim will not be accepted. After applying, in

case of any modification in the qualification of applied post, the candidate may click on 'Candidate Dashboard Login' of 'Home Page' to modify it only once till last date for correction/modification and time fixed for it.

Special Instructions

- (1) The category, sub-category, domicile, gender, date of birth, E.W.S., creamy layer, name and address as claimed by the candidates till the last date/modification date of online application only will be considered valid. No representation for any change will be entertained after the last date. On fetching wrong information, the candidature will be treated as cancelled.
(2) If at any stage, it comes to the knowledge of the commission that the candidate has concealed or misrepresented any information, his/her candidature shall be rejected and proceeding to debar him/her from this examination and all future examinations and selections and also other punitive actions shall be initiated.
(3) As per decision of the UPPSC, a candidate will be liable to be debarred from this selection and all other future examinations and selections upto a maximum period of five years for furnishing any wrong information in his/her application form which cannot be substantiated by relevant documents or for any other malpractice.
(4) If any change is to be made in the personal detail mentioned in the O.T.R. it will be mandatory to Synchronise it on the Dashboard after that change, otherwise change will not be allowed. In this regard any on-line/off-line representation will not be accepted for error correction/amendment. Incomplete application will be cursorily rejected and no correspondence will be entertained in this regard.
(5) The candidature of such candidates who are subsequently found ineligible according to the terms laid down in advertisement will be cancelled and their any claim for the examination will not be entertained. The decision of the Commission regarding candidature/selection of the candidates shall be final.
(6) The application/candidature will be rejected/cancelled, if the application form is not submitted on prescribed format, date of birth is not mentioned or wrong date of birth is mentioned, candidate is overage, under age, does not possess the minimum educational qualifications, applications received after last date and cases of no signature under declaration in the format and no correspondence/representation in this regard shall be entertained.
(7) The Commission may admit the candidates provisionally after summarily checking their applications but if it is found at any stage that applicant was not eligible or his/her application was not entertainable initially, his/her candidature will be rejected and if the candidate is selected and recommended by the Commission, the recommendation made by the Commission for the appointment shall be withdrawn.
(8) In the event of involvement of a candidate in the concealment of any important information, pendency of any case / criminal case, conviction, more than one husband or wife being alive, submission of facts in a distorted manner, malpractice, canvassing for candidature/selection etc, the Commission reserves the right to reject the candidature and debar him from appearing in the selection in question and in all other future examinations and selections.
(9)(a) After the examination or when asked for candidates must submit the hard copy of their online application alongwith self-attested copies of all marksheets and certificates in support of all claims made in the online application and any other information/document required by the advertisement within the prescribed period as per the Commission's instructions; otherwise, their candidature will be cancelled.
(b) In case the candidates present at the time of document verification do not present the required documents, it will be mandatory for them to submit the same within the period prescribed for this purpose as per the decision of the Hon'ble commission. In case the candidate does not present the required documents within the said period, the candidature of the candidate will be cancelled. If any candidate does not appear for document verification on the date prescribed for verification of original documents, assuming that he/she is not interested for the post in question, his candidature will be cancelled.

2. Application Fee: After completing the process of First and Second Stage in the online application process, deposit the fee category wise as per the instructions given in the Third Stage. The prescribed fee of examination for different categories is as under:-

(i) Unreserved/Economically Weaker Sections/ Other Backward Classes	- Exam fee Rs. 200/- + On-line processing fee Rs. 25/- Total = Rs. 225/-
(ii) Scheduled Castes/ Scheduled Tribes	- Exam fee Rs. 80/- + On-line processing fee Rs. 25/- Total = Rs. 105/-
(iii) Persons with disabilities (PWDs)	- Exam fee Rs. NIL/- + On-line processing fee Rs. 25/- Total = Rs. 25/-
(iv) Ex-Servicemen	- Exam fee Rs. 80/- + On-line processing fee Rs. 25/- Total = Rs. 105/-
(v) Dependents of the Freedom Fighters/ Women/Skilled Player	- According to their original category

3. The U.P. Public Service Commission shall hold separate examinations at various centers of the district/districts of Uttar Pradesh for selecting suitable candidates for the posts of Manager (System), Senior Programmer, Programmer Grade-2, and Computer Operator Grade-B. For the posts of Manager (System), Senior Programmer and Programmer Grade-2 the selection will be made on the basis of marks obtained by the candidates in examination and for the post of Computer Operator Grade-B, the selection will be made on the basis of total marks obtained by the candidates in examination and Hindi & English type test.

According to THE UTTAR PRADESH PUBLIC SERVICES (RELAXATION OF AGE LIMIT AND WEIGHTAGE FOR RESEARCH SCHOLARS OF CHIEF MINISTER FELLOWSHIP FOR COMPETITIVE EXAMINATIONS) RULES, 2026:-

The Research Scholar of Chief Minister Fellowship Programme, who have obtained a certificate of successful completion of their tenure from the competent authority till the last date of submission of application as per advertisement will be given the following weightage in the examination to be conducted by the Commission:-									
S. N.	Maximum marks prescribed in the examination	Weightage							
		Research Scholars who have completed 01 year duration	Research Scholars who have completed 02 years duration	Research Scholars who have completed 03 years or more duration					
1.	Up to 100 marks	1.0 marks	2.0 marks	3.0 marks					
2.	101 to 500 marks	1.5 marks	3.0 marks	4.5 marks					
3.	501 to 1000 marks	2.0 marks	4.0 marks	6.0 marks					
4.	More than 1000 marks	2.5 marks	5.0 marks	7.5 marks					
NOTE:- The cut off date for calculation of weightage will be the last date of submission of application as per advertisement. The date and centre of examination decided by the Commission will be intimated to the candidates by means of their e-Admission certificate. 4. No. of Vacancies:- Presently, the number of vacancies for Manager(System)/Senior Programmer/Programmer Grade-2/Computer Operator Grade-B Examination-2026 is 10. The post-wise/reservation-wise details of vacancies are as follows:- Manager(System), Industrial Development Department									
Total	UR	SC	ST	OBC	EWS	Ex. Servicemen	P.H.	D.F.F.	Female
01	01	00	00	00	00	00	00	00	00
Note:- (i) For the post of Manager (System), only O.L., B.L., H.H., L.C., Dw., and A.A.V. sub-categories of persons with disabilities (PwDs) are identified. (ii) The number of vacancies may increase/decrease depending upon circumstances/requirements. Nature of Post: Group-B (Computer Cadre), Non-Gazetted. Pay Scale: 15,600–39,100/-, Grade Pay: 5,400/- Senior Programmer, Industrial Development Department									
Total	UR	SC	ST	OBC	EWS	Ex. Servicemen	P.H.	D.F.F.	Female
01	01	00	00	00	00	00	00	00	00
Note:- (i) For the post of Senior Programmer, only O.L., B.L., H.H., L.C., Dw., and A.A.V. sub-categories of persons with disabilities (PwDs) are identified. (ii) The number of vacancies may increase/decrease depending upon circumstances/requirements. Nature of Post: Group-C (Computer Cadre), Non-Gazetted., Pay Scale: 9,300–34,800/-, Grade Pay: 4,600/- Programmer Grade-2, Directorate Of Financial Planning And Resources									
Total	UR	SC	ST	OBC	EWS	Ex. Servicemen	P.H.	D.F.F.	Female
01	01	00	00	00	00	00	00	00	00
Note:- (i) For the post of Programmer Grade-2, no sub-category of persons with disabilities (PwDs) is identified. (ii) The number of vacancies may increase/decrease depending upon circumstances/requirements. Nature of Post: Group-B, Non-Gazetted., Pay Scale: Level-7, Rs. 44,900–1,42,400/- Computer Operator Grade-B, Uttar Pradesh Public Service Commission									
Total	UR	SC	ST	OBC	EWS	Ex. Servicemen	P.H.	D.F.F.	Female
07	04	01	00	02	00	00	00	00	01
Note:- (i) For the post of Computer Operator Grade-B, no sub-category of persons with disabilities (PwDs) is identified. (ii) The number of vacancies may increase/decrease depending upon circumstances/requirements. Nature of Post: Group-C, Non-Gazetted., Pay Scale: 5,200–20,200/-, Grade Pay: 2,800, Matrix Level–5. 5. Reservation: The reservation for Scheduled Castes of U.P./Scheduled Tribes of U.P/ Other Backward Class candidates of U.P./Economically Weaker Section candidates of U.P. shall be admissible in accordance with the provisions of relevant Govt. Rules. Similarly, reservation for horizontal categories as Dependents of Freedom Fighters of UP, Female candidates, Ex-Servicemen of U.P. and P.H. of U.P. shall be admissible on settlement of vacancies as per rules. Reservation for P.H. of U.P. shall be permissible for the notified / identified Posts. Note: (1) उ0प्र0 के समाज के दिव्यांग अभ्यर्थियों के लिए शासन द्वारा अधिसूचित (चिन्हित) किये गये पदों पर चयन के संबंध में जारी कार्यालय ज्ञाप सं0–5 / 2022 / 18 / 1 / 2008 / 47 / का–2 / 2022, दिनांक–18 अप्रैल, 2022 के बिन्दु–5 (अनारक्षित रिक्तियों पर नियुक्ति) में प्राविधान नियमानुसार किया गया है:– दिव्यांगता से ग्रस्त व्यक्तियों के लिए उपयुक्त चिन्हित किये गये पदों में दिव्यांगता से ग्रस्त व्यक्ति को किसी अनारक्षित रिक्ति पर नियुक्ति के लिए प्रतिस्पर्धा करने से मना नहीं किया जा सकता है अर्थात् दिव्यांग से ग्रस्त व्यक्ति को किसी अनारक्षित रिक्ति पर नियुक्त किया जा सकता है बशर्ते कि पद संगत श्रेणी की दिव्यांगता से ग्रस्त व्यक्तियों के लिए चिन्हित किया गया हो। (2) शासनादेश संख्या–39 रिट / का–2 / 2019, दिनांक–26 जून, 2019 द्वारा शासनादेश संख्या– 18 / 1 / 99 / का–2 / 2006, दिनांक–09 जनवरी, 2007 के प्रस्तर–4 में दिये गये प्राविधान, “यह भी स्पष्ट किया जाता है कि राज्याधीन लोक सेवाओं और पदों पर सीधी भर्ती के प्रक्रम पर महिलाओं को अनुमन्य उपरोक्त आरक्षण केवल उत्तर प्रदेश की मूल निवासी महिलाओं को ही अनुमन्य है”, को रिट याचिका संख्या–11039 / 2018 विपिन कुमार मौर्या व अन्य बनाम उत्तर प्रदेश राज्य व अन्य तथा सम्बद्ध 6 अन्य रिट याचिकाओं में मा. उच्च न्यायालय, इलाहाबाद द्वारा दिनांक– 16.01.2019 को अधिकारातीत (ULTRA VIRES) घोषित करने सम्बन्धी निर्णय के अनुपालन में शासनादेश दिनांक–09.01.2007 से प्रस्तर–04 को विलोपित किए जाने का निर्णय लिया गया है। उक्त निर्णय शासन द्वारा मा0 उच्च न्यायालय के आदेश दिनांक–16.01.2019 के विरुद्ध दायर विशेष अपील (डी) संख्या–475 / 2019 में मा0 उच्च न्यायालय द्वारा पारित होने वाले अन्तिम निर्णय के अधीन होगा। (3) ई. डब्ल्यू एस. श्रेणी के अभ्यर्थियों द्वारा उनकी श्रेणी का प्रमाण–पत्र कार्मिक अनुभाग के कार्यालय–ज्ञाप सं0–1 / 2019 / 4 / 1 / 2002 / का–2 / 19 टी सी– I I, दिनांक 18.02.2019 के अनुरूप समस्त स्रोतों से प्राप्त आय आरक्षण हेतु आवेदन करने के वर्ष के पूर्व वर्ष का ही मान्य होगा। (4) कुशल खिलाड़ियों हेतु नियुक्ति अनुभाग–4 के कार्यालय ज्ञाप संख्या–बी–52 / दो–4 / 75–नियुक्ति–4, दिनांक 11 फरवरी, 1975 एवं शासनादेश संख्या–22 / 21 / 1983–कार्मिक–2, दिनांक 28 नवम्बर, 1985 और उत्तर प्रदेश सरकारी विभाग (उत्कृष्ट खिलाड़ियों की समूह–‘ग’ के पदों पर सीधी भर्ती) नियमावली, 2022, दिनांक 07 जनवरी, 2022 के प्राविधानानुसार कार्यवाही की जायेगी। (5) The Scheduled Caste, Scheduled Tribes, Other Backward Class, Economically Weaker Sections (E.W.S.), Dependents of Freedom Fighters, P.H., Skilled players of classified games and Ex-Servicemen candidates who are not the permanent residents of U.P. shall not be given the benefit of reservation/age relaxation. (6) Candidates of any reserved category of UP., if they want the benefit of reservation,									

must mention their category/ subcategory (one or more than one, whichever) in the column related to O.T.R. because all the personal information will be automatically displayed in the application form from the O.T.R.

(7) The Candidates claiming for the benefit of reservation/age relaxation must obtain, in support of their category a certificate Issued by competent authority on the proforma available in **Appendix-1** of this detailed advertisement and shall submit the same to the Commission when asked for.

(8) Candidates claiming reservation/Age relaxation in more than one category will be entitled to only one concession, whichever is more beneficial to them.

(9) In case of women candidate, the caste certificate issued from father side only will be treated valid.

(10) It is mandatory for the candidates to enclose self-attested copies of all the certificates along with the application forms in support of the claims made by them in their application forms regarding eligibility and category/sub category when asked for, falling which their claim shall not be entertained.

6. Conditions of Eligibility: In case of Emergency Commissioned/Short Service Commissioned Officers (For age relaxation only):- In accordance with the provisions of the G.O. No. 22/10/1976-Karmik-2-85, dated 30-1-1985 Emergency Commissioned / Short Service Commissioned Officers who have not been released from Army but whose period of Army service has been extended for rehabilitation, may also apply for this examination on the following conditions:

(A) Such applicants will have to obtain a certificate of the competent authority of Army, Navy, Air Force to the effect that their period of Service has been extended for rehabilitation and no disciplinary action is pending against them.

(B) Such applicants will have to submit in due course a written undertaking that in case they are selected for the post applied for, they will get themselves released immediately from the Army Service. The above facilities will not be admissible to Emergency/ Short Service Commissioned Officers, if:-

(a) he gets permanent Commission in the Army,

(b) he has been released from the Army on tendering resignation.

(c) He has been released from the Army on grounds of misconduct or physical disability or on his own request and who gets gratuity.

7. MARITAL STATUS : Male candidates who are married and have more than one wife living and female candidates who have married a person already having a wife, shall not be eligible unless the Hon'ble Governor has granted exemption from this condition.

8. EDUCATIONAL QUALIFICATION:- The candidates must possess the following qualifications upto the last date for receipt of application.

S. N.	Name of Post/ Name of Department	Educational Qualification
1.	Manager(System) (Industrial development department)	Essential qualification: Degree in Computer Application. Preferential Qualification:- A candidate who has: (i) served in the Territorial Army for a minimum period of two years, or (ii) obtained a 'B' certificate of National Cadet Corps, shall, other things being equal, be given preference in the matter of direct recruitment
2.	Senior Programmer (Industrial development department)	Essential qualification: Degree with Diploma in Computer Application. Preferential Qualification:- A candidate who has: (i) served in the Territorial Army for a minimum period of two years, or (ii) obtained a 'B' certificate of National Cadet Corps, shall, other things being equal, be given preference in the matter of direct recruitment
3.	Programmer Grade-2 (Directorate of financial Planning and resources department)	Essential qualification: A candidate for direct recruitment to the post of Programmer Grade-2 in the Service must possess the following qualifications: (i) Bachelor's degree from a University established by law in India or a qualification recognised by the Government as equivalent thereto. (ii) Post graduate Diploma in Computer Science from a recognised Institute/ University; or 'A' level Certificate from the Department of Electronics (D.O.E.), Government of India. (iii) Good knowledge of Software development like C/C- Fox Pro, RDVMS as Oracle/Ingress/Sybase, DB/Z etc. in DOS/ Unix/Windows environment. (iv) Exposure to environment of any Networking Operative System. (v) Complete knowledge of Office Automation Packages and Internet. Equivalent Qualification:- भारत में विधि द्वारा स्थापित विश्वविद्यालय की स्नातक उपाधि के समकक्ष अर्हता के संबंध में जारी शासनादेश संख्या–03 / 2023 / 312 / 47–का–2–312 एलसी / 2022 दिनांक 19.07.2023 का प्रवर्तनीय अंश निम्नवत् है :–“..... 3– उपर्युक्त समस्या के निवारण के संदर्भ में सम्यक् विचारोपरांत निम्नवत् निर्णय लिये गये हैं:– (1)– ऐसे प्रकरणों में जहां तकनीकी प्रकृति के पद किसी विभाग की सेवा नियमावली में विद्यमान है तथा उनके लिए सामान्य स्नातक की अर्हता के स्थान पर कोई विशिष्ट अर्हता एवं उसके समकक्ष अर्हता अथवा किसी विशिष्ट शाखा व उपशाखा में स्नातक एवं उसके समकक्ष संगत नियमावली में निर्धारित की गई है, वहां विहित अर्हता के समकक्ष अर्हता का निर्धारण संबंधित विभाग द्वारा किया जायेगा। (2)– उक्त बिन्दु संख्या–1 से आच्छादित प्रकरणों को छोड़कर जिस किसी विभाग की नियमावली में अर्हता सामान्य स्नातक और उसके समकक्ष अर्हता निर्धारित की गयी है, उक्त के संबंध में निम्नानुसार कार्यवाही सुनिश्चित की जाय:– (1) केन्द्र अथवा किसी राज्य सरकार द्वारा विधि द्वारा स्थापित किसी विश्वविद्यालय / डीम्ड विश्वविद्यालय अथवा संस्थान द्वारा अध्ययन की किसी भी शाखा में यदि स्नातक की उपाधि प्रदान की गई है तो उक्त

locomotor disability

dwarfism

blindness

(Please tick as applicable)

(B) The diagnosis in his/her case is _____

(A) he/she has _____% (in figure)_____percent (in words) permanent locomotor disability/ dwarfism/blindness in relation to his/her_____ (part of body) as per guidelines (.....number and date of issue of the guidelines to be specified).

2. The applicant has submitted the following document as proof of residence:-

Nature of Document	Date of Issue	Details of authority issuing certificate

3. Signature and seal of the Medical Authority.

(Dr.....)

Member

Medical Board

with seal

Signature/thumb impression of the person in whose favour certificate of disability is issued

(Dr.....)

Member

Medical Board

with seal

(Dr.....)

Chairperson

Medical Board

with seal

Countersigned by the Chief Medical Officer (with seal)

Form-III

Certificate of Disability

(In cases of multiple disabilities)

(Name and Address of the Medical Authority/Board issuing the Certificate)

Recent passport size attested photograph (showing face only) of the person with disability

Certificate No.

Date:

This is to certify that we have carefully examined Shri/Smt./Kum. _____ son/wife/daughter of Shri _____ Date of birth (DD/MM/ YY) _____ age_____ years, male/ female_____.Registration No._____ permanent resident of House No._____Ward/Village/Street _____ Post Office _____ District_____ State _____, whose photograph is affixed above, and am satisfied that:
(A) he/she is a case of Multiple Disability. His/her extent of permanent physical impairment/disability has been evaluated as per guidelines (.....number and date of issue of the guidelines to be specified) for the disabilities ticked below, and is shown against the relevant disability in the table below:

S. N.	Disability	Affected part of body	Diagnosis	Permanent physical impairment/ mental disability (in%)
1.	Locomotor disability	@		
2.	Muscular Dystrophy			
3.	Leprosy cured			
4.	Dwarfism			
5.	Cerebral Palsy			
6.	Acid attack Victim			
7.	Low Vision	#		
8.	Blindness	#		
9.	Deaf	£		
10.	Hard of Hearing	£		
11.	Speech and Language disability			
12.	Intellectual Disability			
13.	Specific Learning Disability			
14.	Autism Spectrum Disorder			
15.	Mental illness			
16.	Chronic Neurological Conditions			
17.	Multiple sclerosis			
18.	Parkinson's disease			
19.	Haemophilia			
20.	Thalassemia			
21.	Sickle Cell disease			

(B) In the light of the above, his/her over all permanent physical impairment as per guidelines (.....number and date of issue of the guidelines to be specified), is follows:
In figures.....percent.
In words.....percent

2. This condition is progressive/non-progressive/likely to improve/not likely to improve.

3. Reassessment of disability is:-

(i) not necessary,
or

(ii) is recommended/ after..... years..... months, and therefore this certificate shall be valid till.... (DD) (MM) (YY)

@ -e.g. Left/right/both arms/legs
- e.g. Single eye
£ - e.g. Left/Right/both ears

4. The applicant has submitted the following document as proof of residence:-

Nature of Document	Date of Issue	Details of authority issuing certificate

5. Signature and seal of the Medical Authority.

Signature/thumb impression of the person in whose favour certificate of disability is issued

Countersigned by the Chief Medical Officer (with seal)

Form-IV

Certificate of Disability

(In cases of other than those mentioned in Forms II and III)

(Name and Address of the Medical Authority/Board issuing the Certificate)

Recent passport size attested photograph (showing face only) of the person with disability

Certificate No.

Date:

This is to certify that we have carefully examined Shri/ Smt./Kum._____ son/wife/daughter of Shri _____ Date of birth (DD/MM/YY) _____ age _____ years, male/female_____.
Registration No. _____ permanent resident of House No. _____ Ward/Village/ Street _____ Post Office _____ District _____ State _____, whose photograph is affixed above, and am satisfied that he/she is a case of _____ Disability. His/her extent of percentage physical impairment/disability has been evaluated as per guidelines (.....number and date of issue of the guidelines to be specified) and is shown against the relevant disability in the table below

S. N.	Disability	Affected part of body	Diagnosis	Permanent physical impairment/ mental disability (in%)
1.	Locomotor disability	@		
2.	Muscular Dystrophy			
3.	Leprosy cured			
4.	Cerebral Palsy			
5.	Acid attack Victim			
6.	Low Vision	#		
7.	Deaf	£		
8.	Hard of Hearing	£		
9.	Speech and Language disability			
10.	Intellectual Disability			
11.	Specific Learning Disability			
12.	Autism Spectrum Disorder			
13.	Mental illness			
14.	Chronic Neurological Conditions			
15.	Multiple sclerosis			
16.	Parkinson's disease			
17.	Haemophilia			
18.	Thalassemia			
19.	Sickle Cell disease			

Please strike out the disabilities which is not applicable)

2. The above condition is progressive/non-progressive/likely to improve/not likely to improve.

3. Reassessment of disability is:-

(i) not necessary,
or

(ii) is recommended/after.....years..... months, and therefore this certificate shall be valid till (DD/MM/YY)
@ e.g. Left/right/both arms/legs
e.g. Single eye/both eyes
£ e.g. Left/Right/both ears

4. Signature and seal of the Medical Authority.

Name and Seal of Member

Name and Seal of Member

Name and Seal of the Chairperson

Signature/thumb impression of the person in whose favour certificate of disability is issued

Countersigned by the Chief Medical Officer (with seal)

उत्तर प्रदेश लोक सेवा (शारीरिक रूप से विकलांग, स्वतंत्रता संग्राम सेनानियों के आश्रितों और भूतपूर्व सैनिकों के लिये आरक्षण), अधिनियम, 1993 (यथासंशोधित) के अनुसार स्वतंत्रता संग्राम सेनानी के आश्रित के प्रमाण—पत्र का प्रपत्र।

प्रमाण—पत्र

प्रमाणित किया जाता है कि श्री/ श्रीमती निवासी ग्राम— नगर— जिला— उत्तर प्रदेश लोक सेवा (शारीरिक रूप से विकलांग, स्वतंत्रता संग्राम सेनानियों के आश्रितों और भूतपूर्व सैनिकों के लिये आरक्षण) अधिनियम, 1993 के अनुसार स्वतंत्रता संग्राम सेनानी हैं और श्री/ श्रीमती/ कुमारी (आश्रित) पुत्र/ पुत्री/ पौत्र (पुत्र का पुत्र या पुत्री का पुत्र) तथा पौत्री (पुत्र की पुत्री या पुत्री की पुत्री) (विवाहित अथवा अविवाहित) उपरांकित अधिनियम, 1993 (यथासंशोधित) के प्राविधानों के अनुसार उक्त श्री/ श्रीमती (स्वतंत्रता संग्राम सेनानी)के आश्रित हैं।

स्थान: हस्ताक्षर

दिनांक: पूरा नाम
पदनाम
मुहर

Page- 5

जिलाधिकारी (सील) कुशल खिलाड़ियों के लिये प्रमाण-पत्र जो उ.प्र. के मूल निवासी हैं शासनादेश संख्या-22/21/1983-कार्मिक-2 दिनांक 28 नवम्बर, 1985 प्रमाण-पत्र के फार्म – 1 से 4 प्रारूप –1 (मान्यता प्राप्त क्रीड़ा/खेल में अपने देश की ओर से अन्तरराष्ट्रीय प्रतियोगिता में भाग लेने वाले खिलाड़ी के लिये) सम्बन्धित खेल की राष्ट्रीय फेडरेशन/राष्ट्रीय एसोसिएशन का नाम राज्य सरकार की सेवाओं/पदों पर नियुक्ति के लिए कुशल खिलाड़ियों के लिए प्रमाण-पत्र प्रमाणित किया जाता है कि श्री/श्रीमती/कुमारी आत्मज/ पत्नी/ आत्मजा श्री निवासी पूरा पता ने दिनांक से दिनांक तक (स्थान का नाम) में आयोजित..... (क्रीड़ा/खेल-कूद का नाम) की प्रतियोगिता/टूर्नामेन्ट में देश की ओर से भाग लिया। उनके टीम के द्वारा उक्त प्रतियोगिता/टूर्नामेन्ट में स्थान प्राप्त किया गया। यह प्रमाण-पत्र राष्ट्रीय फेडरेशन/राष्ट्रीय एसोसिएशन/(यहाँ संस्था का नाम दिया जाये) में उपलब्ध रिकार्ड के आधार पर दिया गया है। स्थान हस्ताक्षर दिनांक नाम पद संस्था का नाम मुहर नोट: यह प्रमाण-पत्र नेशनल फेडरेशन/नेशनल एसोसिएशन के सचिव द्वारा व्यक्तिगत रूप से किये गये हस्ताक्षर होने पर ही मान्य होगा।	सफलतापूर्वक कार्य किया गया। नोट: यह प्रमाण-पत्र उ0प्र0 लोक सेवाओं (प्रतियोगी परीक्षा हेतु मुख्यमंत्री अध्येतावृत्ति के अनुसंधानविदों के लिए आयु सीमा एवं अधिमान का शिथिलीकरण) नियमावली, 2026 में प्राविधानित वेटेज व आयु में शिथिलीकरण प्रयोजनार्थ जारी किया गया है। दिनांक : विशेष सचिव, नियोजन विभाग Appendix - 2 Plan of Examination प्रबंधक (सिस्टम) पद हेतु परीक्षा योजना 1- परीक्षा में एक प्रश्न पत्र होगा, जो वस्तुनिष्ठ प्रकार का होगा तथा जिसकी कुल अवधि 02:30 (द्वाई) घण्टे होगी। 2- प्रश्न पत्र में कुल 110 प्रश्न होंगे तथा पूर्णांक 220 होगा। प्रत्येक प्रश्न के लिए दो-दो अंक निर्धारित रहेगा। अंक विभाजन <table><thead><tr><th>Topics</th><th>No. of Questions</th><th>Marks</th></tr></thead><tbody><tr><td>(a) Computer Application</td><td>75</td><td>150</td></tr><tr><td>(b) Logical Ability</td><td>15</td><td>30</td></tr><tr><td>(c) Mathematics (Fundamental concepts)</td><td>10</td><td>20</td></tr><tr><td>(d) English Comprehension (Unseen Passage)</td><td>10</td><td>20</td></tr><tr><td>Total</td><td>110</td><td>220</td></tr></tbody></table> वरिष्ठ प्रोग्रामर पद हेतु परीक्षा योजना 1- परीक्षा में एक प्रश्न पत्र होगा, जो वस्तुनिष्ठ प्रकार का होगा तथा जिसकी कुल अवधि दो घण्टे होगी। 2- प्रश्न पत्र में कुल 85 प्रश्न होंगे तथा पूर्णांक 170 होगा। प्रत्येक प्रश्न के लिए दो-दो अंक निर्धारित रहेगा। अंक विभाजन <table><thead><tr><th>Topics</th><th>No. of Questions</th><th>Marks</th></tr></thead><tbody><tr><td>(a) Computer Application</td><td>50</td><td>100</td></tr><tr><td>(b) Logical Ability</td><td>15</td><td>30</td></tr><tr><td>(c) Mathematics (Fundamental concepts)</td><td>10</td><td>20</td></tr><tr><td>(d) English Comprehension (Unseen Passage)</td><td>10</td><td>20</td></tr><tr><td>Total</td><td>85</td><td>170</td></tr></tbody></table> प्रोग्रामर ग्रेड-2 पद हेतु परीक्षा योजना 1- परीक्षा में एक प्रश्न पत्र होगा, जो वस्तुनिष्ठ प्रकार का होगा तथा जिसकी अवधि दो घण्टे होगी। 2- प्रश्न पत्र में कुल 85 प्रश्न होंगे तथा पूर्णांक 170 होगा। प्रत्येक प्रश्न के लिए दो-दो अंक निर्धारित रहेगा। अंक विभाजन <table><thead><tr><th>Topics</th><th>No. of Questions</th><th>Marks</th></tr></thead><tbody><tr><td>(a) Computer Application</td><td>50</td><td>100</td></tr><tr><td>(b) Logical Ability</td><td>15</td><td>30</td></tr><tr><td>(c) Mathematics (Fundamental concepts)</td><td>10</td><td>20</td></tr><tr><td>(d) English Comprehension (Unseen Passage)</td><td>10</td><td>20</td></tr><tr><td>Total</td><td>85</td><td>170</td></tr></tbody></table> कम्प्यूटर ऑपरेटर ग्रेड “बी” पद हेतु परीक्षा योजना (1) परीक्षा में एक प्रश्न पत्र होगा जो वस्तुनिष्ठ प्रकार का होगा जिसकी कुल अवधि दो घण्टे होगी। (2) प्रश्न पत्र में कुल 85 प्रश्न होंगे तथा पूर्णांक 170 होगा। प्रत्येक प्रश्न के लिए दो-दो अंक निर्धारित रहेगा। (3) हिन्दी तथा अंग्रेजी टंकण क्रमशः 27.5-27.5 (कुल 55 अंकों की होगी)। (4) हिन्दी तथा अंग्रेजी टंकण क्रमशः 10-10 मिनट होगी। (5) कम्प्यूटर पर हिन्दी टंकण 25 शब्द प्रति मिनट तथा अंग्रेजी टंकण में 40 शब्द प्रति मिनट की गति होना अनिवार्य है। (6) लिखित परीक्षा का पूर्णांक 170 तथा हिन्दी अंग्रेजी टंकण का पूर्णांक 55 अर्थात कुल 225 के सापेक्ष अभ्यर्थियों के प्राप्त अंकों के आधार पर परिणाम तैयार किया जायेगा। अंक विभाजन <table><thead><tr><th>Topics</th><th>No. of Questions</th><th>Marks</th></tr></thead><tbody><tr><td>(a) Exposure to Computer System and Application</td><td>50</td><td>100</td></tr><tr><td>(b)Logical Ability</td><td>10</td><td>20</td></tr><tr><td>(c) General Awareness</td><td>15</td><td>30</td></tr><tr><td>(d) English Comprehension (Unseen Passage)</td><td>10</td><td>20</td></tr><tr><td>Total</td><td></td><td>170</td></tr><tr><td>(e)English and Hindi Typing (Each of 27.5 marks)</td><td></td><td>55</td></tr><tr><td>Total</td><td>85</td><td>225</td></tr></tbody></table> Appendix-3 Syllabus for Manager (System) Sub : Computer Application 1. Computer Fundamentals & Computer Organisation: Classification of computers, Elements of Computer Processing System, Hardware, Software, CPU, Peripherals, Storage Media, General organization of a digital computer, Data Representation, fixed and floating point decimal arithmetic, Bit slice microprocessor, Adders & its types, Generators & its types, multiplication and division circuits, an arithmetic unit, Instruction cycle, Instruction sequencing, formats and its interpretation, micro program concepts and control unit design. Semiconductor memory and memory organization, virtual memory, segments, pages, paged segments, cache memory and interleaved memory. Concepts of I/O organization, data transfer methods, programmed I/O, DMA, interrupt-based transfer, I/O channels, I/O processors, serial transmission and synchronization. 2. Data Structure & Algorithms: Algorithm Complexity, Data structure and its Types, Array, Representation and Analysis, Single and Multidimensional Arrays and its Application, Ordered List, Sparse Matrices and Vectors, Representation and Implementation of Singly lists, Two way Header list, Traversing and Searching of Linked List, Overflow and Underflow, Insertion and deletion to / from Linked Lists, Doubly linked list, Linked List in Array, Polynomial representation and addition, Garbage Collection and Compaction. Stacks, Queues, Array Representation and Implementation of Stack, Operations on Stacks : Push & Pop, Array and Linked representation and implementation of Queues, Operations on Queue: Create, add, Delete, Full and Empty, Circular queue, De-queue and Priority Queue. Recursion, Principles of Recursion, Tower of Hanoi Problem, Simulating Recursion, Backtracking Recursive algorithms, tail Recursion, Removal of Recursion. Tree representation evaluation and Traversal, Binary tree representation, Algebraic Expressions, Complete Binary Tree, Extended Binary Tree, Array and Linked Representation of Binary trees, Threaded Binary trees, Traversing	Topics	No. of Questions	Marks	(a) Computer Application	75	150	(b) Logical Ability	15	30	(c) Mathematics (Fundamental concepts)	10	20	(d) English Comprehension (Unseen Passage)	10	20	Total	110	220	Topics	No. of Questions	Marks	(a) Computer Application	50	100	(b) Logical Ability	15	30	(c) Mathematics (Fundamental concepts)	10	20	(d) English Comprehension (Unseen Passage)	10	20	Total	85	170	Topics	No. of Questions	Marks	(a) Computer Application	50	100	(b) Logical Ability	15	30	(c) Mathematics (Fundamental concepts)	10	20	(d) English Comprehension (Unseen Passage)	10	20	Total	85	170	Topics	No. of Questions	Marks	(a) Exposure to Computer System and Application	50	100	(b)Logical Ability	10	20	(c) General Awareness	15	30	(d) English Comprehension (Unseen Passage)	10	20	Total		170	(e)English and Hindi Typing (Each of 27.5 marks)		55	Total	85	225
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क्रमांक:  उत्तर प्रदेश शासन नियोजन विभाग मुख्यमंत्री फेलोशिप कार्यक्रम अनुभव प्रमाण पत्र प्रमाणित किया जाता है कि श्री/श्रीमती/सुश्री पुत्र/पुत्री श्री/श्रीमती जिनकी जन्मतिथि है, के द्वारा नियोजन विभाग द्वारा संचालित मुख्यमंत्री फेलोशिप कार्यक्रम के अंतर्गत विकासखण्ड जनपद में दिनांक से तक शोधार्थी के रूप में																																																																															

Threaded Binary trees, Huffman algorithm. Sequential search, Binary search, comparison and analysis, Hash Table, Hash Functions, Collision Resolution Strategies, Hash Table Implementation. 3. Programming languages: Concepts and Application of C, C++, Java, Python, Free and Open Source Software 4. Database Management System: Data independence, Architecture for a Database system. Storage structures, Relational approach, Hierarchical approach, Network and Distributed Approach. Relations, Domains and attributes, Keys, Extensions and Intentions, Relational Algebra, Set operations, Relational operations, Relational calculus. Normal Forms, Functional Dependency, 1NF, 2NF, 3NF and BCNF. SQL, Query and Optimizer, Security, Concurrency and Recovery. 5. Operating Systems: Functions, Multiprogramming, Multiprocessing & Multitasking, Processes, Threads, Memory Management, Virtual memory, Paging, Fragmentation, Mutual exclusion, Critical regions. CPU scheduling, I/O scheduling, Scheduling algorithms, Deadlock avoidance & prevention; UNIX/LINUX: Structure & Commands, Interfacing, Editors & Compilers, LEX & YACC, File system, System calls, Filters, Shell programming. 6. Data Communication and Computer Networks: Communication channels, Measure of information, Source coding techniques like Huffman code, Block Code & Cyclic Redundancy codes. Modulations and Demodulations, Networks structure and architecture, OSI Model, Topology, Transmission media, Switching, Multiplexing, Client-Server model, IEEE standards, FDDI, TCP/IP Model, Integrated services digital networks, Multipoint Protocol Layer Switching (MPLS). Physical Layer, Data Link Layer, Network Layer, Routing algorithms, Congestion control algorithms. Internetworking, IP addressing, Subnetting, IPv4. Transport Layer, Application layer, Compression Techniques, IPv6, DNS System. Security Concepts-Attacks, Services & Mechanisms, Cipher Principles and Cryptography. 7. Artificial Intelligence: Intelligent agents, Structure of agents and its 'functions, Problem spaces and search, Heuristic Search techniques- Best first search, Problem reduction, Constraint satisfaction, Means Ends Analysis. Knowledge Representation: Approaches and issues in knowledge representation, Knowledge Based Agent, Propositional Logic, Predicate logic - Unification and Resolution. 8. Introduction to RMI (Remote Method Invocation): Client-server application using RMI. Java Servlet, Servlet API, Life Cycle of a Servlet, Running Servlet, Debugging Servlets, Thread-safe Servlets, HTTP Redirects, Cookies, Java Server pages (JSP), HTML, URL, FTP, HTTP, PHP and ASP.net 9. System Security: Authentication, Service Electronic Mail Security, Web Security: Secure Socket Layer Security, Secure Electronic Transaction (SET). System Security: Intruders, Viruses, Firewall Design Principles. Internet: Basics, Various types of internet connections, ISP, Mail Services concepts, Voice and Video Conferencing, Web Browsers and Web Servers, VPN, Voice Over Internet Protocol (VOIP). 10. Software Engineering and MIS: Importance of Software and its characteristics, Software Development Life Cycle, Software Process. Software Requirement Specification, Water Fall Model, The Incremental Model, Prototyping, Spiral Model, Role of management in software development, Role of metrics and Measurement, Problem analysis, Requirement specification, Monitoring and Control, Software design principles, Abstraction, Cohesiveness, Coupling, Software testing, Verification & validation, Software Project Management, Software Quality and Reliability, Concepts of MIS and ERP. 11. Advanced Computing: Basics Concepts of Mobile Computing, Cloud Computing, Grid Computing, Big Data, Internet of Things and Machine Learning.	Segmentation, Virtual Memory, Demand Paging, Page Replacement Algorithms, Frame Allocation Methods, Thrashing. File Management: Structure and Functions of File System, I/O Operations, Device Drivers, Access Methods, File System Organization, Design Techniques, File Allocation Methods, File Security and Protection Unix and Windows: Overview of Unix Shell Environment, Interface, Common Commands, System Utilities, Windows Environment Subsystem, Control Panel and System Configuration, Security and Protection. 2. Programming Language: Problem Solving Techniques: Algorithms, Flowcharts, Programming Paradigms (Top-Down, Bottom-Up), Introduction to Object Oriented Programming and Structured Programming Concepts. C Programming: Importance and evolution of C Language, Structure of C Program, Character Set, Tokens, Keywords, Identifiers, Constants, Variables, Data Types, Operators, Decision Making Statements, loops, Arrays, Strings, Functions, Structures. Object Oriented Programming: Classes, Objects, Encapsulation, Data Abstraction, Inheritance, Reusability and Modularity, Polymorphism, Friend Functions, Virtual Functions, Constructors and Destructors Java: Java Source File Structure, JVM Architecture, Primitive Data Types, Operators, Type Casting, Arrays, Conditional Statements, Loop constructs, Abstract Classes and Interfaces, Method Overloading and Overriding, Packages and Access Modifiers. 3. Scripting Languages Definition and Characteristics of Scripting Languages, Uses of Scripting Languages for Web Based Applications, Client Side vs. Server Side Scripting. JavaScript: Overview of JavaScript, Syntax, Variables, Expressions, Control Structure (Branching and Looping), Functions, Events, Document Object Model (DOM) manipulations. Perl: Syntax, Data Types, Variables, Operators, Conditional and Looping Statements, Array, Strings, Hashes, built-in Functions and Subroutines. 4. Database Characteristics of DBMS, Types of database models, ER Diagrams, DDL, DML, Data Abstraction and Data Independence, DBMS Architecture, Schema, Views, Functional Dependencies, Integrity Constraints, Normal Forms (1NF, 2NF, 3NF and BCNF), Concepts Of Transactions and Concurrency. 5. Database Packages Structured Query Language (SQL): SELECT Queries, JOINS, Subqueries, Aggregate Functions, Set Operations, Data Manipulations (INSERT, UPDATE, DELETE, WHERE, ORDER BY, GROUP BY), Indices and Triggers. MS-ACCESS: Introduction to MS-Access GUI and Structure, Reports, Queries, Macros, Built-in Functions, Data Import/Export queries, Table Relationships. Oracle: Introduction and Installation, Backup and Recovery Manager, SQL Server Basics, Functions of SQL Server, Server Configuration, User Management, Basic Concepts of MYSQL. 6. Web Server PHP: Introduction to PHP, Variables, Data Types, Conditional and Looping Statements, Indexed and Associative Arrays, Built-in Functions, Embedding PHP in HTML, Form Handling. Web Server: Overview and Concepts of Web Server, Types of Web Servers, HTTP and HTTPS Protocol, Client-side and Server-side Scripting, Introduction to the .NET Platform and Framework, MVC Architecture and its implementation, API Development, Remote Access and Server Management, Deployment and Publishing ASP.NET, Understating IIS and Apache Servers, Basics of Web Hosting and Domain management. 7. Network Basics of the Internet, Web Browser, Search Engine, URL Structure, Protocols and Services, FTP, TCP/IP, DNS, POP, SMTP, ICMP, RARP, UDP, ARP, IP Addressing, Subnetting concepts, Remote Login, Web Uploading/Downloading, Web Publishing, Hosting Services, SSL, Internet Safety Practices, Social Media Networking, Fundamentals of Socket Programming, Client Server Architecture, TCP and UDP Socket communication. 8. Web Content Development Concepts of Hypertext and Hypermedia, Structure of HTML Documents, Head and Body Sections, Different Tags, Text Formatting, Inserting Images, Creating Links, Using Tables and Lists, Frames and Form Handling. 9. Document Preparation MS-Word: Introduction to MS —WORD and its features, Creating, Saving and Opening Documents, Interface, Toolbars, Ruler, Menus, Keyboard Shortcuts, Paragraph formatting, Alignment, Borders and Shading, Headers and Footers, Columns, Tables. MS-Excel: Creating Worksheets, Defining Cells, Columns and Rows, Entering, Editing, Saving and Protecting Data, Toolbars, Functions, and Keyboard Shortcuts. Cell Formatting, Alignment, Character Styles, Adjusting Column Width and Row Height, Date/Time Formatting, Applying Borders, Colors, Basic Formulas, Cell Referencing (Relative, Absolute, Mixed) MS-PowerPoint: Overview of MS-PowerPoint and its applications in presentations, Creating, Duplicating, Moving, Copying, and Deleting Slides, Using Themes, Slide Layouts, Design Tools, Editing and Formatting Text, Applying Styles, Using Bullets and Numbering, Inserting and Formatting Images, Charts, Smart-art and Multimedia, Applying Visual Effects, Custom Animation, Notes, Handouts, Slide Sorter View, Rehearse Timing.
<u>SYLLABUS FOR SENIOR PROGRAMMER</u> <u>SUBJECT: COMPUTER APPLICATION</u> 1. Computer Fundamental and Computer Organization : (a) Computer Fundamentals: Definition and Characteristics, Types, Components, Hardware, Software, Operating Systems and Utilities. (b) Computer Organization: Number systems, Instruction Codes, Instruction Cycle, Addressing Modes, Data Transfer and Manipulation, Complex Instruction Set Computer (CISC) and Reduced Instruction set Computer (RISC). 2. Data Structure: Basics of Data Structures, Stack Operations, Array and Linked Representation of Stack, Stack Application, Queue Operations and their Array and Linked Representation, Basics of Search Trees. 3. DBMS: Basics of Data Base Management Systems, Data Models, ER Diagram, Exposure to MS Access, Oracle, MY SQL, SQL Server. 4. Programming Languages: Programming Concepts, Knowledge of C, C++, Java and Python programming and their Applications. 5. Network: Definition, Types (LAN, WAN, MAN) and Network Components, OSI, TCP/IP, Connection Oriented Network, Wireless Communication, Intranet, Internet (Services and Applications), Web Browsers and Email. 6. Web Technology: Fundamentals of Web Technology, Basic knowledge of HTML, XML, PHP and Java Script. 7. Software Engineering: The Evolving Role of Software, Changing Nature of Software, Software Development Life Cycle, Requirement Engineering Process, Knowledge of Testing Technique and Testing Tools, Debugging, Software Quality and Metrics. 8. Cyber Law and Security Policy: Cyber Crime, Forgery, Hacking, Software Privacy, Data Fraud, Phishing and Identity Theft, Web Security, Email Security, Social Media Security, IT Act. 9. Windows/Unix/Linux: Understanding Operating Systems, Its Features and applications, Working with Windows firewall, Windows firewall with Advanced Security, Password Security, Antivirus Security, Knowledge of Unix/Linux Commands. 10. Document Preparations: Working Knowledge of Office Suite.	<u>Syllabus for Computer Operator Grade "B"</u> (a) Course for Aptitude Test- The Computer operator needs to assist Programmer and higher ups in day to day operations. He/she must have basic knowledge of Computing System with different operating system (live windows/Unix) and have working knowledge of one or two programming languages. He/she may also have exposure on DBMS packages. They should be good in information ordering and possess oral and written comprehensive skills. The point wise syllabus is as follows : (1) OS : Working knowledge with essential commands of Windows/ Unix. (2) Programming Languages: Programming skills in C and C++ or JAVA (3) Document Preparation : Deep exposure in Office Suites (4) DBMS Packages: Data Entry skills in different DBMS packages like MS Access, ORACLE, MYSQL etc. (5) Internet: Exposure on Web Server and Web Page management
<u>SYLLABUS FOR PROGRAMMER GRADE-2</u> <u>SUBJECT: COMPUTER APPLICATION</u> 1. Operating System Fundamentals of Operating System: Basics of Operating System, Types, Functions and Services of Operating Systems, System Calls, Interface, Interrupts. Process: Process Management, Process Control Block, Process States, Threads, Scheduling, Spooling, Scheduling Algorithms and their Evaluation, Process Synchronization, Inter-process Communication, Concurrent Execution, Race Condition, Mutual Exclusion, Bounded Waiting, • Semaphores, Hardware Synchronization, Classical Problems of Synchronization (Readers-Writers, Dining Philosophers) Deadlock: Introduction of Deadlocks, Deadlock Characteristics, Deadlock Prevention, Detection and Avoidance, Wait-for-Graph, Banker's Algorithm, Safe Condition, Deadlock Recovery Memory Management: Basics of Memory Management, Static Allocation, Dynamic Allocation, Swapping, Compaction, Contiguous Vs. Non-Contiguous Allocation, Paging,	SECRETARY