

GOVERNMENT OF JAMMU AND KASHMIR
J&K SERVICES SELECTION BOARD

Hema Complex, Sector -3, Channi Himmat, Jammu

www.jkssb.nic.in

NOTICE

J&K Services Selection Board has advertised various posts vide **Advertisement Notification Nos. 03 and 04 of 2021**. Accordingly, the syllabi for the posts advertised vide aforementioned advertisement notifications is notified as per the details given in **Annexure "A" to "G"** to this notice. The candidates are also intimated that there shall be negative marking for wrong answers (-0.25 for each wrong answer) attempted in the said examination.

This notice is for the purpose of intimation to the concerned candidates only.

(Ashok Kumar)JKAS
Controller of Examinations,
J&K Services Selection Board
Jammu

No. SSB/COE/Syl/2021/6639-42

Dated: 30-09-2021

Copy to the: -

1. Director Information, J&K Government, Jammu with the request to get the said notification published in at least three leading local newspaper of Jammu/Srinagar for three consecutive dates.
2. Private Secretary to the Chairman, JKSSB for information of the Chairman.
3. I/c Web site.
4. Syllabus file.

Syllabi for the posts advertised vide Advertisement Notification Nos 03 and 04 of 2021

S.No	Advertisement No.	Item No.	Department	Sub Deptt/Appointing Authority.	Name of the post	Cadre of the post	Total	Syllabi annexed as
1	04 of 2021	613	Animal /Sheep husbandary and Fisheries Department	Directorate, Animal Husbandary Department Jammu	Junior Assistant	Udhampur	1	Annexure "A"
2	04 of 2021	619	Animal /Sheep husbandary and Fisheries Department	Directorate, Animal Husbandary Department Jammu	Junior Assistant	Rajouri	1	
3	04 of 2021	621	Animal /Sheep husbandary and Fisheries Department	Directorate, Animal Husbandary Department Jammu	Junior Assistant	Poonch	1	
4	04 of 2021	623	Animal /Sheep husbandary and Fisheries Department	Directorate, Animal Husbandary Department Kashmir	Junior Assistant	Div.Kashmir	2	
5	04 of 2021	640	Animal /Sheep husbandary and Fisheries Department	Directorate, Sheep Husbandary Department Kashmir	Junior Assistant	Div.Kashmir	1	
6	04 of 2021	643	Animal /Sheep husbandary and Fisheries Department	Directorate, Sheep Husbandary Department Kashmir	Junior Assistant	Budgam	2	
7	04 of 2021	645	Animal /Sheep husbandary and Fisheries Department	Directorate, Sheep Husbandary Department Kashmir	Junior Assistant	Ganderbal	1	
8	04 of 2021	647	Animal /Sheep husbandary and Fisheries Department	Directorate, Sheep Husbandary Department Kashmir	Junior Assistant	Pulwama	1	
9	04 of 2021	649	Animal /Sheep husbandary and Fisheries Department	Directorate, Sheep Husbandary Department Kashmir	Junior Assistant	Anantnag	1	
10	04 of 2021	651	Animal /Sheep husbandary and Fisheries Department	Directorate, Sheep Husbandary Department Kashmir	Junior Assistant	Kupwara	3	
11	04 of 2021	653	Animal /Sheep husbandary and Fisheries Department	Directorate, Sheep Husbandary Department Kashmir	Junior Assistant	Bandipora	2	
12	04 of 2021	658	Animal /Sheep husbandary and Fisheries Department	Directorate Fisheries J&K	Junior Assistant	Jammu	2	
13	04 of 2021	659	Animal /Sheep husbandary and Fisheries Department	Directorate Fisheries J&K	Junior Assistant	Kathua	1	
14	04 of 2021	660	Animal /Sheep husbandary and Fisheries Department	Directorate Fisheries J&K	Junior Assistant	Reasi	1	
15	04 of 2021	661	Animal /Sheep husbandary and Fisheries Department	Directorate Fisheries J&K	Junior Assistant	Doda	1	
16	04 of 2021	662	Animal /Sheep husbandary and Fisheries Department	Directorate Fisheries J&K	Junior Assistant	Ramban	1	
17	04 of 2021	663	Animal /Sheep husbandary and Fisheries Department	Directorate Fisheries J&K	Junior Assistant	Rajouri	1	

18	04 of 2021	664	Animal /Sheep husbandary and Fisheries Department	Directorate Fisheries J&K	Junior Assistant	Srinagar	2
19	04 of 2021	665	Animal /Sheep husbandary and Fisheries Department	Directorate Fisheries J&K	Junior Assistant	Budgam	1
20	04 of 2021	666	Animal /Sheep husbandary and Fisheries Department	Directorate Fisheries J&K	Junior Assistant	Anantnag	2
21	04 of 2021	667	Animal /Sheep husbandary and Fisheries Department	Directorate Fisheries J&K	Junior Assistant	Baramulla	1
22	03 of 2021	573	Forest ,Ecology and Environment Department	Chairman,J&K Pollution Control Board	Junior Assistant	UT	2
23	03 of 2021	574	Forest ,Ecology and Environment Department	Chairman,J&K Pollution Control Board	Junior Assistant	Div.Jammu	3
24	03 of 2021	575	Forest ,Ecology and Environment Department	Chairman,J&K Pollution Control Board	Junior Assistant	Div.Kashmir	5
25	03 of 2021	577	Forest ,Ecology and Environment Department	Pr.Chief conservator of forest /(HOFF) J&K	Junior Assistant	UT	8
26	03 of 2021	578	Forest ,Ecology and Environment Department	Pr.Chief conservator of forest /(HOFF) J&K	Junior Assistant	Div.Jammu	4
27	03 of 2021	579	Forest ,Ecology and Environment Department	Pr.Chief conservator of forest /(HOFF) J&K	Junior Assistant	Div.Kashmir	9
28	03 of 2021	580	Forest ,Ecology and Environment Department	Pr.Chief conservator of forest /(HOFF) J&K	Junior Assistant	Kathua	1
29	03 of 2021	581	Forest ,Ecology and Environment Department	Pr.Chief conservator of forest /(HOFF) J&K	Junior Assistant	Udhampur	3
30	03 of 2021	582	Forest ,Ecology and Environment Department	Pr.Chief conservator of forest /(HOFF) J&K	Junior Assistant	Ramban	2
31	03 of 2021	583	Forest ,Ecology and Environment Department	Pr.Chief conservator of forest /(HOFF) J&K	Junior Assistant	Rajouri	6
32	03 of 2021	584	Forest ,Ecology and Environment Department	Pr.Chief conservator of forest /(HOFF) J&K	Junior Assistant	Srinagar	2
33	03 of 2021	585	Forest ,Ecology and Environment Department	Pr.Chief conservator of forest /(HOFF) J&K	Junior Assistant	Budgam	1
34	03 of 2021	586	Forest ,Ecology and Environment Department	Pr.Chief conservator of forest /(HOFF) J&K	Junior Assistant	Ganderbal	1
35	03 of 2021	587	Forest ,Ecology and Environment Department	Pr.Chief conservator of forest /(HOFF) J&K	Junior Assistant	Pulwama	2
36	03 of 2021	588	Forest ,Ecology and Environment Department	Pr.Chief conservator of forest /(HOFF) J&K	Junior Assistant	Anantnag	2

37	03 of 2021	589	Forest ,Ecology and Environment Department	Pr.Chief conservator of forest /(HOFF) J&K	Junior Assistant	Baramulla	5	
38	03 of 2021	590	Forest ,Ecology and Environment Department	Pr.Chief conservator of forest /(HOFF) J&K	Junior Assistant	Shopian	1	
39	03 of 2021	591	Forest ,Ecology and Environment Department	Pr.Chief conservator of forest /(HOFF) J&K	Junior Assistant	Kulgam	1	
40	03 of 2021	596	General Administration Department	General Administration Department	Junior Assistant	UT	157	
41	04 of 2021	609	Animal /Sheep husbandary and Fisheries Department	Directorate, Animal Husbandary Department Jammu	Junior Assistant	Div.Jammu	4	
42	03 of 2021	598	Department of Law , Justice and Parliamentary Affairs	Department of Law , Justice and Parliamentary Affairs	Junior Scale Stenographer	UT	10	Annexure "B"
43	03 of 2021	558	Forest ,Ecology and Environment Department	Chairman,J&K Pollution Control Board	Junior Scale Stenographer	UT	1	
44	04 of 2021	636	Animal /Sheep husbandary and Fisheries Department	Directorate, Sheep Husbandary Department Kashmir	Junior Stenographer	Div.Kashmir	1	
45	03 of 2021	597	General Administration Department	General Administration Department	Junior Stenographer	UT	43	
46	04 of 2021	642	Animal /Sheep husbandary and Fisheries Department	Directorate, Sheep Husbandary Department Kashmir	PBX Operator	Div.Kashmir	1	
47	04 of 2021	639	Animal /Sheep husbandary and Fisheries Department	Directorate, Sheep Husbandary Department Kashmir	Rakhoverseer	Div.Kashmir	2	Annexure "C"
48	03 of 2021	592	Forest ,Ecology and Environment Department	Dir.,Department of Social Forestry,J&K.	Social Forestry Worker	Div.Jammu	11	
49	03 of 2021	593	Forest ,Ecology and Environment Department	Dir.,Department of Social Forestry,J&K.	Social Forestry Worker	Div.Kashmir	10	
50	04 of 2021	641	Animal /Sheep husbandary and Fisheries Department	Directorate, Sheep Husbandary Department Kashmir	Stock Assistant	Div.Kashmir	2	
51	04 of 2021	644	Animal /Sheep husbandary and Fisheries Department	Directorate, Sheep Husbandary Department Kashmir	Stock Assistant	Ganderbal	2	
52	04 of 2021	645	Animal /Sheep husbandary and Fisheries Department	Directorate, Sheep Husbandary Department Kashmir	Stock Assistant	Budgam	2	
53	04 of 2021	646	Animal /Sheep husbandary and Fisheries Department	Directorate, Sheep Husbandary Department Kashmir	Stock Assistant	Pulwama	3	
54	04 of 2021	648	Animal /Sheep husbandary and Fisheries Department	Directorate, Sheep Husbandary Department Kashmir	Stock Assistant	Anantnag	4	
55	04 of 2021	650	Animal /Sheep husbandary and Fisheries Department	Directorate, Sheep Husbandary Department Kashmir	Stock Assistant	Kupwara	4	

56	04 of 2021	652	Animal /Sheep husbandary and Fisheries Department	Directorate, Sheep Husbandary Department Kashmir	Stock Assistant	Shopian	2
57	04 of 2021	654	Animal /Sheep husbandary and Fisheries Department	Directorate, Sheep Husbandary Department Kashmir	Stock Assistant	Baramulla	3
58	04 of 2021	668	Animal /Sheep husbandary and Fisheries Department	Directorate, Sheep Husbandary Department Jammu	Stock Assistant	Jammu	2
59	04 of 2021	669	Animal /Sheep husbandary and Fisheries Department	Directorate, Sheep Husbandary Department Jammu	Stock Assistant	Samba	2
60	04 of 2021	670	Animal /Sheep husbandary and Fisheries Department	Directorate, Sheep Husbandary Department Jammu	Stock Assistant	Kathua	6
61	04 of 2021	671	Animal /Sheep husbandary and Fisheries Department	Directorate, Sheep Husbandary Department Jammu	Stock Assistant	Poonch	5
62	04 of 2021	672	Animal /Sheep husbandary and Fisheries Department	Directorate, Sheep Husbandary Department Jammu	Stock Assistant	Rajouri	8
63	04 of 2021	673	Animal /Sheep husbandary and Fisheries Department	Directorate, Sheep Husbandary Department Jammu	Stock Assistant	Reasi	6
64	04 of 2021	674	Animal /Sheep husbandary and Fisheries Department	Directorate, Sheep Husbandary Department Jammu	Stock Assistant	Udhampur	5
65	04 of 2021	675	Animal /Sheep husbandary and Fisheries Department	Directorate, Sheep Husbandary Department Jammu	Stock Assistant	Ramban	4
66	04 of 2021	676	Animal /Sheep husbandary and Fisheries Department	Directorate, Sheep Husbandary Department Jammu	Stock Assistant	Doda	5
67	04 of 2021	677	Animal /Sheep husbandary and Fisheries Department	Directorate, Sheep Husbandary Department Jammu	Stock Assistant	Kishtwar	5
68	04 of 2021	678	Animal /Sheep husbandary and Fisheries Department	Directorate, Sheep Husbandary Department Kashmir	Stock Assistant	Srinagar	6
69	04 of 2021	679	Animal /Sheep husbandary and Fisheries Department	Directorate, Sheep Husbandary Department Kashmir	Stock Assistant	Budgam	7
70	04 of 2021	680	Animal /Sheep husbandary and Fisheries Department	Directorate, Sheep Husbandary Department Kashmir	Stock Assistant	Ganderbal	5
71	04 of 2021	681	Animal /Sheep husbandary and Fisheries Department	Directorate, Sheep Husbandary Department Kashmir	Stock Assistant	Baramulla	6
72	04 of 2021	682	Animal /Sheep husbandary and Fisheries Department	Directorate, Sheep Husbandary Department Kashmir	Stock Assistant	Kupwara	6
73	04 of 2021	683	Animal /Sheep husbandary and Fisheries Department	Directorate, Sheep Husbandary Department Kashmir	Stock Assistant	Anantnag	7
74	04 of 2021	684	Animal /Sheep husbandary and Fisheries Department	Directorate, Sheep Husbandary Department Kashmir	Stock Assistant	Kulgam	5

75	04 of 2021	685	Animal /Sheep husbandary and Fisheries Department	Directorate, Sheep Husbandary Department Kashmir	Stock Assistant	Pulwama	4
76	04 of 2021	686	Animal /Sheep husbandary and Fisheries Department	Directorate, Sheep Husbandary Department Kashmir	Stock Assistant	Shopian	4
77	04 of 2021	687	Animal /Sheep husbandary and Fisheries Department	Directorate, Sheep Husbandary Department Kashmir	Stock Assistant	Bandipora	5
78	04 of 2021	611	Animal /Sheep husbandary and Fisheries Department	Directorate, Animal Husbandary Department Jammu	Veterinary Pharmacist	Samba	4
79	04 of 2021	612	Animal /Sheep husbandary and Fisheries Department	Directorate, Animal Husbandary Department Jammu	Veterinary Pharmacist	Kathua	9
80	04 of 2021	614	Animal /Sheep husbandary and Fisheries Department	Directorate, Animal Husbandary Department Jammu	Veterinary Pharmacist	Udhampur	6
81	04 of 2021	615	Animal /Sheep husbandary and Fisheries Department	Directorate, Animal Husbandary Department Jammu	Veterinary Pharmacist	Reasi	2
82	04 of 2021	616	Animal /Sheep husbandary and Fisheries Department	Directorate, Animal Husbandary Department Jammu	Veterinary Pharmacist	Doda	8
83	04 of 2021	617	Animal /Sheep husbandary and Fisheries Department	Directorate, Animal Husbandary Department Jammu	Veterinary Pharmacist	Kishtwar	1
84	04 of 2021	618	Animal /Sheep husbandary and Fisheries Department	Directorate, Animal Husbandary Department Jammu	Veterinary Pharmacist	Ramban	3
85	04 of 2021	620	Animal /Sheep husbandary and Fisheries Department	Directorate, Animal Husbandary Department Jammu	Veterinary Pharmacist	Rajouri	7
86	04 of 2021	622	Animal /Sheep husbandary and Fisheries Department	Directorate, Animal Husbandary Department Jammu	Veterinary Pharmacist	Poonch	11
87	04 of 2021	626	Animal /Sheep husbandary and Fisheries Department	Directorate, Animal Husbandary Department Kashmir	Veterinary Pharmacist	Srinagar	4
88	04 of 2021	627	Animal /Sheep husbandary and Fisheries Department	Directorate, Animal Husbandary Department Kashmir	Veterinary Pharmacist	Budgam	4
89	04 of 2021	628	Animal /Sheep husbandary and Fisheries Department	Directorate, Animal Husbandary Department Kashmir	Veterinary Pharmacist	Ganderbal	7
90	04 of 2021	629	Animal /Sheep husbandary and Fisheries Department	Directorate, Animal Husbandary Department Kashmir	Veterinary Pharmacist	Pulwama	4
91	04 of 2021	630	Animal /Sheep husbandary and Fisheries Department	Directorate, Animal Husbandary Department Kashmir	Veterinary Pharmacist	Anantnag	7
92	04 of 2021	631	Animal /Sheep husbandary and Fisheries Department	Directorate, Animal Husbandary Department Kashmir	Veterinary Pharmacist	Kulgam	3
93	04 of 2021	632	Animal /Sheep husbandary and Fisheries Department	Directorate, Animal Husbandary Department Kashmir	Veterinary Pharmacist	Kupwara	5

94	04 of 2021	633	Animal /Sheep husbandary and Fisheries Department	Directorate, Animal Husbandary Department Kashmir	Veterinary Pharmacist	Shopian	3	
95	04 of 2021	634	Animal /Sheep husbandary and Fisheries Department	Directorate, Animal Husbandary Department Kashmir	Veterinary Pharmacist	Bandipora	4	
96	04 of 2021	635	Animal /Sheep husbandary and Fisheries Department	Directorate, Animal Husbandary Department Kashmir	Veterinary Pharmacist	Baramulla	6	
97	04 of 2021	610	Animal /Sheep husbandary and Fisheries Department	Directorate, Animal Husbandary Department Jammu	Veterinary Pharmacist	Div.Jammu	13	
98	04 of 2021	624	Animal /Sheep husbandary and Fisheries Department	Directorate, Animal Husbandary Department Kashmir	Veterinary Pharmacist	Div.Kashmir	5	
99	03 of 2021	605	Forest ,Ecology and Environment Department	Chief Wildlife Warden, J&K	Wild Life Guard	Div.Jammu	71	
100	03 of 2021	606	Forest ,Ecology and Environment Department	Chief Wildlife Warden, J&K	Wild Life Guard	Div.Kashmir	37	
101	04 of 2021	638	Animal /Sheep husbandary and Fisheries Department	Directorate, Sheep Husbandary Department Kashmir	Junior Grader	Div.Kashmir	1	
102	04 of 2021	625	Animal /Sheep husbandary and Fisheries Department	Directorate, Animal Husbandary Department Kashmir	Electrician	Div.Kashmir	1	
103	03 of 2021	604	Forest ,Ecology and Environment Department	Chief Wildlife Warden, J&K	Mistry	UT	1	
104	04 of 2021	637	Animal /Sheep husbandary and Fisheries Department	Directorate, Sheep Husbandary Department Kashmir	Junior Librarian	Div.Kashmir	1	Annexure "E"
105	03 of 2021	562	Forest ,Ecology and Environment Department	Chairman,J&K Pollution Control Board	Assistant Law officer	UT	1	Annexure "F"
106	03 of 2021	599	Department of Law , Justice and Parliamentary Affairs	Department of Law , Justice and Parliamentary Affairs	Junior Legal Assistant	UT	9	Annexure "F"
107	05 of 2020	128	Science & Technology	Science Technology & Inovation Council	Research Assistant	UT	5	Annexure "G"

Total

695

Annexure "A"

Syllabus for Written test (Objective Type)

Marks: 80

Time: 80 Minutes

Unit I General English

20 Marks

- (i) Comprehension
- (ii) Editing / Proof Reading.
- (iii) Rearranging of jumbled sentences
- (iv) Narration
- (v) Modals
- (vi) Articles
- (vii) Paragraph writing with blanks to be filled in with the following
 - i. Phrases
 - ii. Pronouns
 - iii. Homonyms/Homophones etc.
- (viii) Clauses
- (ix) Punctuation
- (x) Synonyms and antonyms
- (xi) Idioms and phrases.
- (xii) Uses of Prepositions
- (xiii) Active & Passive Voice

Unit II General Awareness with special reference to JK UT 20 Marks

- (i) Current Events of National and International importance
- (ii) Political & Physical divisions of India
- (iii) Indian Culture, Heritage and Freedom Struggle/Movement.
- (iv) Demography- Census, its feature and functions.
- (v) Important Rivers & Lakes in India.
- (vi) Weather, Climate, Crops, Means of Transport of India.
- (vii) J&K UT
 - a) History
 - b) Economy
 - c) Geography- (Weather, Climate, Crops, Rivers, Lakes, Flora, Fauna etc.)
 - d) Heritage & Culture
 - e) Important Tourist Destinations

Unit III Numerical and Reasoning Ability

20 Marks

Basic Arithmetic:

- (i) Number System
- (ii) Percentage
- (iii) Average
- (iv) Profit & Loss
- (v) Ratio & Proportion
- (vi) Time & Work

Reasoning:

- (i) Number series
- (ii) Letter series
- (iii) Coding decoding
- (iv) Direction sense
- (v) Blood relations
- (vi) Mathematical reasoning
- (vii) Speed, Distance and Time
- (viii) Statements and conclusions.

Unit IV Basic Concepts of Computers 20 Marks

- (i) Fundamentals of computer sciences
- (ii) Hardware & Software
- (iii) Input and output devices
- (iv) Operating system
- (v) M.S Word, M.S Excel, M.S Access and Powerpoint Presentation
- (vi) E_mail & Internet

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Annexure "B"

Syllabus for Written Test (Objective Type)

Marks: 60

Time: 60 Minutes

S. No.	Subjects/ Topic	Marks assigned
1	GENERAL AWARENESS with Special reference to J&K UT	20
2	GENERAL ENGLISH & COMPREHENSION	20
3	GENERAL INTELLIGENCE & REASONING	10
4	COMPUTER APPLICATIONS	10
TOTAL		60

1. GENERAL AWARENESS with special reference of J&K UT.

- (ii) Current Events of National and International importance
- (i) Political & Physical divisions of India
- (ii) Indian Culture, Heritage and Freedom Struggle/Movement.
- (iii) Demography- Census, its feature and functions.
- (iv) Important Rivers & Lakes in India.
- (v) Weather, Climate, Crops, Means of Transport of India.
- (vi) J&K UT
 - f) History
 - g) Economy
 - h) Geography- (Weather, Climate, Crops, Rivers, Lakes, Flora, Fauna etc.)
 - i) Heritage & Culture
 - j) Important Tourist Destinations

2. GENERAL ENGLISH & COMPREHENSION

- (i) Tenses
- (ii) Narration
- (iii) Modals
- (iv) Articles
- (v) Reading Comprehension
- (vi) Fill in the blanks with Phrases, Pronouns, homonyms/ homophones etc
- (vii) Clauses
- (viii) Synonyms and antonyms
- (ix) Pairs of words and their use in meaningful sentences.
- (x) Rearranging of jumbled sentences.
- (xi) Idioms and phrases.
- (xii) Uses of Prepositions.
- (xiii) Active & Passive Voice
- (xiv) Error Spotting
- (xv) Sentence Correction
- (xvi) Spellings Correction

3. GENERAL INTELLIGENCE & REASONING

- (i) Number series, Letter series, Semantic Series, Speed, Distance and Time, Statements and conclusions, Logical Reasoning, Mental

Reasoning, Word Building, Numerical Operations, Semantic Analogy, Symbolic/ Number Analogy, Figural Analogy, Semantic Classification, Symbolic/ Number Classification, Figural Classification, Problem Solving.

- (ii) Symbolic Operations, Trends, Space Orientation, Space Visualization, Venn Diagrams, Drawing inferences, Punched hole/ pattern- folding & un-folding, Figural Pattern- folding and completion, Indexing, Address matching, Date & city matching, Classification of centre codes/roll numbers, Small & Capital letters.

4. COMPUTER APPLICATIONS

- (i) Basic Applications of Computer and its component.
- (ii) Fundamentals of computer sciences.
- (iii) Hardware & Software, Concept of Open-Source Technologies.
- (iv) Input & output Devices.
- (v) Knowledge of MS Word, MS Excel, MS Access, MS PowerPoint, PDF Internet and E-mail.
- (vi) Concept of Computer Virus and Latest Anti-Virus.
- (vii) Terms and Abbreviation used in IT.
- (viii) Role of Information Technology in Governance

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Annexure "C"

Total Marks=120
Time=02 Hours

1) Basis Mathematics

= 20 Marks

- Percentage
- Average
- Time, Work and Distance
- Ration and Proportions
- Problem of Age
- Probability
- LCM, HCF
- Mensuration

2) Basis Reasoning

= 20 Marks

- Analogies
- Relationship concepts
- Figure odd one out
- Direct Sense
- Figure Series completion
- Venn Diagram
- Number series
- Coding/Decoding

3) Basis English

= 30 Marks

- Articles
- Synonyms
- Antonyms
- Preposition
- Verbs
- Reading comprehension
- Determiners
- Spellings
- Sentences

4) General Awareness and Science

= 50 Marks

- General current events (National Level)
- Sports

- India culture
- India history
- Indian geography
- Capital/State
- General Science
- Health, Hygiene and Sanitation
- Geography of Jammu and Kashmir
- Culture of Jammu and Kashmir
- History of Jammu and Kashmir

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ANNEXURE "D"

Syllabus for Written Test

Total Marks=120

Time=02 Hours

UNIT I

15 Marks

- (i) Articles
- (ii) Tenses
- (iii) Modals
- (iv) Clauses
- (v) Determiners
- (vi) Preposition
- (vii) Idioms and Phrases.
- (viii) Synonyms / Antonyms
- (ix) Spellings
- (x) Sentences
- (xi) Phrases
- (xii) Homonyms/ Homophones

UNIT II

15 Marks

- (i) Current events of National importance
- (ii) Honours and Awards
- (iii) The World of Sports
- (iv) Geographical Discoveries
- (v) Principal Languages of India
- (vi) Capitals and Currencies of Countries
- (i) History, Geography, Culture and Economy of UT of Jammu and Kashmir
- (ii) Flora and Fauna of J&K
- (iii) Rivers and Lakes.
- (iv) Important Tourist Destinations of UT of Jammu and Kashmir

Unit III

20 Marks

- (i) Percentage
- (ii) Average
- (iii) Time, Work and Distance
- (iv) Ratio and Proportions
- (v) Problem of Age
- (vi) Probability
- (vii) LCM, HCF
- (viii) Mensuration
- (ix) Trigonometry
- (x) Polynomials and Quadratic equation

- (i) Sources of energy; Conventional & Non-Conventional
- (ii) Reflection & refraction of light, Mirror formula.
- (iii) Refractive index, Lens formula, image formation, sign conventions.
- (iv) Defects of vision & their correctness.
- (v) Electric current; Electric potential and Potential difference
- (vi) Ohms Law, Heating effects of Current
- (vii) Environmental pollution
- (viii) Nutrition, Respiration, Excretion etc
- (ix) Communicable & Non-Communicable Diseases.
- (x) Ecosystem – Its components, Food chains and Food webs.
- (xi) Ozone layer, its depletion, Green House Effect.
- (xii) Chemical Equation, types of chemical reactions.
- (xiii) Oxidation & reduction reactions
- (xiv) Bonding in Carbon, Allotropes of Carbon
- (xv) Physical & Chemical properties of metals and non-metals.

Unit-V**20****Marks**

- (i) Partition of Bengal.
- (ii) Boycott and Swadeshi Movement.
- (iii) Muslim League/ Khilafat Movement/Non-Cooperation Movement
- (iv) Quit India Movement.
- (v) Independence and Partition of India.
- (vi) Change of Seasons/ Planets/ Solar System
- (vii) Longitude - Latitude.
- (viii) Types of Forests
- (ix) Classification of Soils
- (x) Types of farming
- (xi) Major Crops
- (xii) Resources- Types, Conservation etc.
- (xiii) Federalism
- (xiv) Democracy – Direct & Indirect.
- (xv) Fundamental Rights, Fundamental Duties.
- (xvi) Representation, Franchise, Secret Ballot.
- (xvii) Political Parties- National, State, Regional etc.
- (xviii) Economy-Primary, Secondary and Tertiary Sectors

UNIT V**10 Marks**

- (i) Analogies
- (ii) Relationship concepts
- (iii) Figure odd one out
- (iv) Direct Sense

- (v) Figure Series completion
- (vi) Venn Diagram
- (vii) Number series
- (viii) Coding/Decoding

Unit VI

20 Marks

- (i) Communication and its importance.
- (ii) Types of communication – verbal, non-verbal, written, email etc.
- (iii) Safety and Health- Importance of safety and health at workplace.
- (iv) Occupational Hazards- Basic Hazards, Chemical Hazards, Mechanical Hazards, Electrical Hazards, Thermal Hazards.
- (v) First Aid, Care of injured & Sick at the workplaces.
- (vi) Pollution and pollutants including liquid, gaseous, solid and hazardous waste
- (vii) Skills, Working Aids, Automation, Environment, Motivation.
- (viii) Idea of ISO 9000 and BIS systems and its importance in maintaining qualities
- (ix) Benefits guaranteed under various acts- Factories Act, Apprenticeship Act, Employees State Insurance Act (ESI), Payment Wages Act, Employees Provident Fund Act, The Workmen's Compensation Act.
- (x) Metric System: Measurement of length, breadth & height in metric units Measurement of weight in metric system. Unit conversion. Reading of plain scales. Reading of tapes & foot rules.

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Annexure "E"

Syllabus for Written

Total Marks=120

Time=02 Hours

UNIT I

20 Marks

- (i) Types of Libraries and their Features
- (ii) Role of Libraries in contemporary Society
- (iii) Five Laws of Library Sciences
- (iv) Library legislations in India
- (v) Digital Library
- (vi) Intellectual Property Rights (IPR)
- (vii) National and International Library Associations: ILA, IASLIC, IATLIS, IFLA, FID ALA, ASLIB etc
- (viii) National and intercalation Agencies: UNESCO, OCLC, PRRLF, UGC, INFLIBNET, DELNET etc
- (ix) Information Centres, DRTC, ISI, INSDOC (NISCAIR), NASSDOC, DESIDOC, SENDOC, etc

Unit-II

Marks 20

- (i) Basic Terminology: call Number, Class Number, Book Number, Isolates
- (ii) Classification; concept & purpose.
- (iii) Types and characteristics of classification scheme.
- (iv) ISBD, ISBN, ISSN; classification schemes.
- (v) Features of DDC, UDC, and CC
- (vi) Five Fundamental Categories
- (vii) Notation: Definition and Purpose
- (viii) Library Catalogue; Definition and purpose
- (ix) Cannons of Classification and Cataloguing

Unit-II I

Marks 20

- (i) Principles of Book Selection
- (ii) Selection Tool; Print and Non-Print Materials
- (iii) Processing of Documents; Accessioning, Classification, Cataloguing, labelling and shelving
- (iv) Difference between catalogue, Accession Register, bibliography and Shelf list.
- (v) Serials/ Journals; Selection and procurement
- (vi) Book Transaction System: Traditional and Modern
- (vii) Stock verification of Books; Methods and Tools
- (viii) Weeding Process

Unit-IV

Marks 20

- (i) Information sources: Definition, types and importance;
- (ii) Information sources- Primary, Secondary and Tertiary.

- (iii) Information Services: Definition and need of reference, documentation and information services.
- (iv) Types of Dictionaries, Encyclopaedias
- (v) Geographical and Biographical Sources
- (vi) Indexing and Abstracting Sources
- (vii) Types of Bibliographies
- (viii) Bibliographies Sources

Unit-V

Marks 20

- (i) Types of Reference service, Ready reference service, Long Rang Reference Service
- (ii) Reference Librarian: Role Skills and Competences
- (iii) User Education/ Information Literacy Skills
- (iv) CAS/SDI
- (v) International Information System; INIS, AGRIS, MEDLARS/MEDLINE, INSPEC
- (vi) Information Seeking Pattern

Unit-VI

Marks 20

- (i) Study of Computer including concept of Hardware.
- (ii) Library Automation Need and Purpose.
- (iii) Need for computer applications, Areas of computer applications. Automation in library Management. Software Packages for Library Management-Essential features
- (iv) Computer and its Units, Computer and its classification.
- (v) Study of Various operating systems.
- (vi) General-purpose application software: Word Processing such as MS-office, lotus.
- (vii) Special Purpose application software: CDS/ISIS.
- (viii) Library Networking: Needs & Purpose.
- (ix) OPAC AND Web-OPAC.

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Annexure "F"

Subject: Syllabus for Written Test.

Marks =120

120 Minutes

Constitutional Law:

15 Marks

- (i) Salient features of Indian Constitution.
- (ii) Parliamentary form of Government.
- (iii) President of India- Election, Qualifications, Impeachment, Position, Powers and Privileges.
- (iv) Cabinet System, Collective Responsibility-Individual responsibility, President-Prime Minister relationship
- (v) Distribution of Legislative Powers (Art. 245, 246 & 254)
- (vi) Failure of Constitutional Machinery (Art. 356)
- (vii) Constitutional Amendments – Methods and limitation (Art. 368)
- (viii) Freedom of Trade and Commerce
- (ix) Regulatory and Compensatory measures (Articles 301-304).
- (x) Articles 141 and 143.
- (xi) Appointment and impeachment of the Judges of the High Courts and Supreme Court.
- (xii) Services under the Constitution- Doctrine of Pleasure (Art. 310), Restrictions (Art. 311)
- (xiii) Fundamental Rights (Articles 14-16, 19-22 and 25-30).
- (xiv) Constitutional remedies. Writ Jurisdiction
- (xv) Scope of Article 32
- (xvi) Scope of Article 226
- (xvii) Directive Principles of State Policy; Relationship between Directive Principles and Fundamental Rights.
- (xviii) Emergency Provisions: Arts 352 to 354, 358 and 359.

Administrative Law:

10 Marks

- (i) Classification of Administrative Action:
- (ii) Definition of administrative actions.
- (iii) Need for classification
- (iv) Identification of legislative action
- (v) Identification of quasi-judicial and administrative actions. Legislative powers of administration.
- (vi) Necessity for delegation of legislative powers and its constitutional validity.
- (vii) Principles of Natural Justice:
- (viii) No man shall be judge in his own cause.
- (ix) No man shall be condemned unheard.
- (x) Administrative Discretion
- (xi) Need for Administrative Discretion
- (xii) Administrative Discretion and rule of law
- (xiii) Need for safeguards.

- (xiv) Doctrine of Excessive Delegation of Discretion
- (xv) Constitutionality of discretionary powers
- (xvi) Administrative discrimination and arbitrariness
- (xvii) De tournament De preuvoir
- (xviii) Malafide exercise of discretion Improper purpose
- (xix) Irrelevant considerations Unreasonableness
- (xx) Non-exercise of discretionary powers
- (xxi) Liability of the Government
- (xxii) Statutory- immunity
- (xxiii) Act of State
- (xxiv) Contractual liability of Government
- (xxv) Government privileges in legal proceedings
- (xxvi) Public accountability
- (xxvii) Ombudsman

Muslim Law:

05 Marks

- (i) Sources and Schools of Muslim Law.
- (ii) Nature, scope, validity and classification of marriage under Muslim Law
- (iii) Polygamy, Divorce and matrimonial remedies under Muslim Law
- (iv) Dissolution of Muslim Marriage Act, 1939.
- (v) Maintenance under section 125 of the Code of Criminal Procedure, 1973.
- (vi) Maintenance under Muslim Women (Protection of Rights on Divorce) Act, 1986

Hindu Law:

05 Marks

- (i) Nature, concept and essential conditions of Hindu Marriage.
- (ii) Grounds of divorce and divorce by mutual consent under Hindu Law
- (iii) Matrimonial remedies under Hindu Law:
- (iv) Nullity of marriage
- (v) Restitution of conjugal rights
- (vi) Judicial separation
- (vii) Dissolution of marriage
- (viii) Joint family and coparcenary under Mitakshara law
- (ix) Karta-his powers, privileges and obligations.
- (x) Adoption and Guardianship.

Law of Contract

15 Marks

- (i) Agreement and contract – Definitions, elements and kinds.
- (ii) Proposal and acceptance: their various forms, essential elements, communications and revocation.
- (iii) Intention to create legal relationship.
- (iv) Consideration: its need, meaning, kinds, essential elements-privy of contract, promissory estoppel, exceptions to consideration; adequacy of consideration; present, past and executory consideration; unlawful consideration and its effects; views of Law Commission of India on consideration; evaluation of the doctrine of consideration.

- (v) Capacity to contract: meaning, definition of minor, necessities supplied to a minor, agreements beneficial and detrimental to a minor affirmation- restitution in cases of minor's agreement-fraud by minor- agreements made on behalf of a minor's agreement and tested-evaluation of the law relating to minor's agreement.
- (vi) Quasi-contracts of certain relations resembling those created by contracts
- (vii) Damages: kinds- Remoteness of damages- ascertainment of damages.
- (viii) Specific performance of contracts.
- (ix) Contract that can be specifically enforced.
- (x) Rescission and cancellation.
- (xi) Injunction.
- (xii) Indemnity: Definition, nature and extent of liability of the indemnifier, commencement of liability of the indemnifier.
- (xiii) Guarantee: Definition, basic essentials for a valid guarantee contract, Nature and extent of surety's liability, discharge of surety's liability.
- (xiv) Bailment: Definition, kinds of bailees, duties of bailor and bailee towards each other, rights of bailor and bailee, finder of goods as a bailee.
- (xv) Agency: Kinds of agents and agencies; Distinction between agent and servant; Essentials of agency transaction; Various methods of creation of agency; delegation.
- (xvi) Sale of Goods: Concept of sale as a contract; Essentials of a contract of sale; Implied terms in contract of sale; Rule of Caveat Emptor and the exceptions thereto; Changing concept of Caveat Emptor; Unpaid seller and his rights.

Company Law

10 Marks

- (i) Concept of registration and incorporation; Memorandum of Association, Doctrine of ultra vires; Articles of Association; Doctrine of constructive notice and indoor management; Prospectus-statement in lieu of prospectus;
- (ii) Promoters- position, duties and liabilities;
- (iii) Directors- position, appointment, qualifications, vacation of office, removal, resignation, powers and duties of directors; meeting registers, loans, remuneration of directors, role of nominee directors- compensation for loss of office- managing directors- compensation for loss of office-managing directors and other managerial personnel;
- (iv) Meetings- kinds- procedure- voting;
- (v) Debentures- meaning- fixed and floating charge- kinds of debentures- shareholder and debenture holder- remedies of debenture holders.
- (vi) Protection of minority rights.
- (vii) Winding up- types- by court- reasonable- grounds- who can apply- power of court-consequences of winding up order- voluntary winding up by members and creditors- winding up subject to supervision of courts- liability of past members- payment of liabilities- preferential payment, unclaimed dividends, winding up of unregistered company.

Labour Laws

10 Marks

- (i) Definition of Trade Union and the right to form the Trade Union.

- (ii) Legal Control and Protection of Trade Union: Registration, amalgamation, rights, immunities, liabilities and dissolution. Trade Union Funds.
- (iii) Collective bargaining.
- (iv) Strikes, lock-outs, lay off and retrenchment. Transfer and closure.
- (v) Unfair Labour practices.
- (vi) Disciplinary proceedings.
- (vii) Labour welfare: concept, classification and importance.
- (viii) Obligations of employer for health, safety and welfare.
- (ix) Working hours of adults and Annual Leave with wages.
- (x) Employment of young persons: prohibition of employment of children, regulation of employment of young persons.
- (xi) Concept of minimum wage, fair wage, living wage and need based minimum wage.
- (xii) Procedure for fixation and revision of minimum wages.
- (xiii) Components of wages: dearness allowance, principle of fixation.
- (xiv) Definition of wage under Payment of Wages Act, 1936 and responsibility for payment of wages.
- (xv) Concept of employer, workmen, dependent, disablement.
- (xvi) Workmen's compensation: employer's liability for compensation, amount and distribution of compensation.
- (xvii) Employee's State Insurance: benefits, ESI fund and contribution.

Criminal Law

10 Marks

Indian Penal Code: General defences (Sections 76-106); Group liability (Sections 34 & 149); Unlawful Assembly, Rioting and Affray; Abetment; Criminal Conspiracy; Criminal Attempt; Offences against body (Sections 299-304, 319-326, 339-343, 349-353 and 359-363); Offences against property (Sections 378, 379, 383, 384, 390-392, 395, 405, 415-417, 425 and 426).

Jurisprudence

10 Marks

Meaning and scope of Jurisprudence; Nature and definition of "Law"; Schools of Law (Analytical positivism, Natural Law, Historical School and Sociological School); Sources of Law (Legislation, precedents, customs and juristic writings); Rights and duties- concept and co-relationship); Concept of person, Ownership and Possession.

International Law And Human Rights

20 Marks

- (i) Origin, Development, Definition, Nature and Theories of International Law; Its relation with Municipal Law.
- (ii) Sources of International Law, Custom. Treaties. General Principles of Law and writings.
- (iii) Subjects of International Law: State including Recognition of States; Individuals and peoples; International Organizations.
- (iv) Jurisdiction of States: Territorial, Personal and Universal.
- (v) Extradition and Asylum.
- (vi) Law of State Responsibility.
- (vii) Peaceful Settlement of Disputes including settlement by ICJ.

- (viii) Use of Forces under International Law.
- (ix) Human Rights: Origin, development and nature of Human Rights; International Bill of Human Rights; Regional Systems of Human Rights Law; Protection of Human Rights Act and International Humanitarian Law.

Environmental Law

10 Marks

- (i) Environmental Pollution: Meaning and issues.
- (ii) Constitutional provisions-Art. 14, 19(1)(g), 21, 48A & 51A, right to wholesome environment-evolution and application. PIL and protection of Environment.
- (iii) Water and Air Pollution Control Acts:
- (iv) Standards, CPCB and SPCB, Consent Mechanism, Control Areas and Restraint Orders
- (v) Citizen Suit and Access to Environmental Information
- (vi) Corporate and Governmental Liability for Environmental Offences
- (vii) Environmental Protection Act, 1986 and other environmental legislations
- International Environmental Law and Norms:
- (viii) Stockholm Declaration, Global Warming and Ozone Conventions
- (ix) Sustainable development, Public Trust Doctrine
- (x) Precautionary Principle, Polluter Pays Principle
- (xi) Local Environmental Laws and Problems in J&K:
- (xii) Forest Act, 1930, J&K Wildlife Protection Act, JEK Forest (Conservation) Act (Summary of the provisions with special emphasis on Forest Dwellers and Forests, medicinal plants and related traditional knowledge)
- (xiii) Protection of Biodiversity in J&K- Local Laws and Central Acts- Forest (Protection) Force Act
- (xiv) Preservation and protection of lakes and waterways in J&K- Existing related laws and future needs.

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Annexure “G”

COMPUTER SCIENCE====10 MARKS

Functioning of Computer, Classification of Computer, Components of Computer, Computer Hardware, CPU, Memory Unit, Storage Devices, Input Devices, Output Devices, MODEM and its working, Number System, Decimal Number System, Binary Number System, Octal Number System and Hexadecimal Number System, Digital Codes, Code Conversion, Logic Gate Symbol Identification, Network Media- Guided (Twisted pair, Co-axial Fibre Optics), Un-Guided (Infrared, Radio, Microwave) Network Device HUB, MODEM, Repeater, Gateway, Switch and their functions Network Technologies- Ethernet Bluetooth, Wi-Fi.

MATHEMATICS====10 MARKS

Mixture Problems, Simplification, Average, Percentage, Ratio and Proportion, Number System, Algebra, Profit and Loss, Interest, Speed Time and Distance, Time and Work, Mensuration, Geometry, Trigonometry, Number Series, Permutation and Combination, Tabulation, Bar Graph, Line Graph, Pie Chart, Venn Diagrams, Probability, Number Series, Clock and Calendar, Mathematical Puzzles, Syllogism, Direction and Distance, Analytical Geometry, Equation of Line, Slopes, Matrices and Determinants, Matrices and determinants, Definition of a matrix, various types of matrices, Addition and multiplications of matrices. Transpose of a matrix and its properties.

PHYSICS====10 MARKS

System of Units, SI Units, SI System, Fundamental and Derived Units, Practical Units, Wave Motion, Types of Wave Motion, Musical Sound and Noise, Pitch, Loudness, Quality of Sound, Beats, Lasers, Types of lasers and application of lasers, Coulomb’s Law, Electric Field, Intensity of electric Field, capacitors and capacitance, combination of capacitors in series and in parallel capacitance, Kirchhoff’s Laws, Kirchhoff’s Current Law, Kirchhoff’s Voltage Law, Direct Current, Alternating Current, Magnetism, Molecular Theory of Magnetism, Right Hand Rule, Left Hand Rule, Helix Rule, Cells, Primary cells, Secondary Cells, Battery, Parallel Group of Batteries, Mixed Group of Batteries, Capacity of a Battery, Efficiency of Battery, Charging of Battery, Electrical resistivity and conductivity, carbon resistors, color code for carbon resistors, thermistors, piezo discs.

CHEMISTRY====10 MARKS

Classification of solids based on different binding forces: molecular, ionic, covalent and metallic solids, amorphous solids and crystalline solids (elementary idea only). unit cell in two dimensional & three dimensional lattices, packing efficiency, calculation of density of unit cell. packing in solids, voids, number of atoms per unit cell in a cubic unit cell point defects. Properties of solids (electrical, magnetic & dielectric), Band theory of metals, conductors, semi-conductors and insulators and n & p type semiconductors, Types of solutions, expression of concentration of solution of solids in liquids, solubility of gases in liquids, solid solutions, colligative properties relative lowering of vapor pressure of a solution, Raoult's law, elevation of boiling point, depression in freezing point temperature and osmotic pressure), determination of molecular masses using colligative properties Abnormal molecular mass, van't Hoff factor and calculations involving it, Redox reactions, conductance in electrolytic solutions, specific conductivity. Molar conductivity, variation of conductivity with concentration

BOTANY =====10 MARKS

Heredity and variation, Mendelian inheritance, Deviations from Mendelism: incomplete dominance, co-dominance, Multiple alleles. Pleiotropy Chromosomal theory of inheritance, Elementary idea of polygenic inheritance, Chromosomes & genes, Search for genetic material DNA genetic material Structure of DNA & RNA. DNA packaging. DNA Replication (Semiconservative), Central dogma, Protein Biosynthesis Transcription, translation, genetic code Gene expression and regulation (lac-operon), Plant breeding: introduction, steps in plant breeding and application of plant breeding and single cell protein, Biofortification, Tissue culture: Cellular totipotency, technique and application of tissue culture, Microbes in Human Welfare: in household food processing, industrial production, sewage treatment Production of energy (Biogas), biocontrol agent (Biopesticides) & Biofertilizers, Genetically Modified organism- Bt crops, Biopiracy and patents, Meaning of ecology, environment, habitat and niche: Organism and environment

ZOOLOGY=====10 MARKS

Asexual Reproduction: Uniparental, modes: binary fission, sporulation, budding, gemmule, fragmentation, regeneration. Human Reproduction- Male and female reproductive systems. Microscopic anatomy of testis & ovary Gametogenesis (spermatogenesis & oogenesis Menstrual cycle), Fertilization, embryo development upto blastocyst formation, implantation, Pregnancy and placenta formation (elementary idea). Parturition (elementary idea) and Lactation (elementary idea). Reproductive Health: Need for reproductive health & prevention of Sexually Transmitted Diseases (STD), Birth control- need & methods, Contraception and

Medical Termination of Pregnancy (MTP), Amniocentesis, Infertility & assisted reproductive technologies: IVE.GIFT(Elementary idea for general awareness), Sex determination in human hits and honeybee, Inheritance pattern of Hemophilia and Color blindness in human beings, Mendelin Disorders in humans: Chromosomal disorders in humans, Down's syndrome, Turner's & Klinefelter's syndromes, Genome and Human Genome project, DNA fingerprinting, Origin of life Theories & evidences with special reference to Darwin & Modern Synthetic theory of evolution, Hardy - Weinberg's principal Adaptive radiation. Origin and evolution of Man.

PROFESSIONAL COMMUNICATION=====10 MARKS

Error Spotting- Grammar, Active and passive Voice, Direct and Indirect Speech, Fillers, Common Errors, fill in the blanks (Vocabulary), vocabulary, spellings, grammar, sentence jumbles, para jumbles, synonyms, antonyms, one word substitution, sentence completion, phrase replacement, Phrase or Idiom Meaning.

ENGINEERING TOPICS=====10 MARKS

Introduction to electrical and electronic measurements, errors in measurement, galvanometer, voltmeter, ammeter, accuracy, precision, permanent magnet moving coil, electrodynamic type instrument, measurement of resistance, measurement of self-inductance, measurement of capacitance, sensors and transducers, Digital electronic voltmeter, CRO, measurement of high AC voltages, Materials and Components, Atoms and Solids, Dielectric Properties of Insulating Materials, Magnetic Properties of Materials, Conductivity of Metals, Conduction in Semiconductors, Insulators, Optical Materials, Communication systems, modulation, analog modulation, Frequency Modulation, Frequency Division Multiplexing, Digital Communication Systems, Sampling, Time Division Multiplexing, Delta Modulation, Demodulation, Satellite Communication, Analog Circuits, DC Biasing BJT's, Fixed Bias Circuit, Transistor Saturation , Power Amplifiers, Feedback and Oscillator Circuits, Operational Amplifiers, Applications of Op-AMP, JFET, MOSFET, Power Systems, Electric Power Generation, Transmission Line Parameters, Performance of Overhead Transmission Lines, Cables, Grading of Cables, Corona Losses, Faults, Types of Faults, Circuit Breakers, Relays, Types of Relays, Earthing, , Insulation Material.

DESIGN AND INNOVATION =20 MARKS

CAD designing, CAD Designing software, Features of CAD software, File types in CAD, Menu features in CAD software, Autodesk Inventor Software, File Types in Inventor, 2D Sketching, 3D Sketching, 3D Printing, Additive Printing, Types of Additive Printing, Subtractive Printing, Metal Fusion Techniques for 3D Printing, Fused Deposition Modeling (FDM), Types of Materials in FDM, Properties of PLA, Properties of ABS, Properties of PET, Properties of PETG, Properties of TPU, Properties of PC, Properties of Nylon, Properties of ASA, Properties of ULTEM, Slicer Software, Files types in Slicer Software, Arduino, Arduino UNO, Arduino Mega, Arduino Nano, Arduino UNO PIN layout, Arduino Mega PIN layout, Arduino Nano PIN layout, Arduino Programming, Laser Engraving Techniques, Laser Engravers, Types of Lasers, Printed Circuit Board (PCB) Designing, Types of PCB materials, Multi-Layer PCB's, PCB Component Footprints, Footprint codes of Basic through hole Components, Footprint codes of SMA/SMD components, Capacitors, Inductors, Resistors, Color Coding of Carbon resistors, Coding of Capacitors, Electronic Sensors and Transducers, Servo Motors, Stepper Motors, Sensor IC's, Innovation in Mobile Phone Technology, Innovation in Led TV's, Latest Innovation in Consumer Products, Innovation in Medical Technology, SSD's, NVME Storage Devices, Relays, Switches , Types of Switches, Connectors, types of Connectors, Oscillators, Types of Oscillators Using Transistor, Crystal Oscillator, Application of Oscillators, Optoelectronic devices, 555 Timer, regulated Power supply, Power Supply IC's, Identification of Electronic and Electrical Symbols, Identification of IC's by Visualization, Identification of Electronic Active & Passive Components by Visualization, Types and Kinds of Electronic Measurement Tools, Digital Electrical Watt Meter Design, Regulated Power Supply Design, Design of Voltage Stabilizers, Voltage Regulation, Design using IC Voltage Regulators, Designing Circuit using Circuit Simulation Tools, Multisim Simulation, Diptrace PCB designer, Product Designing, Concept Generation, Concept Selection, Concept Testing, Development Process, Product Planning, Identifying Customer/ Consumer Needs, Product Specifications, Product Architecture, Industrial Design, Design For Manufacturing, Prototyping, General Knowledge Questions Related to Latest Innovations in the World.

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