Faculty of Science and Technology

Scheme of Teaching, Learning, Examination & Evaluation leading to Two Years PG Degree Master of Herbal Science following Three Years UG Programme w.e.f. 2023-24

(Two Years- Four Semesters Master's Degree Programme- NEPv23 with Exit and Entry Option

M. Sc. Herbal Science (Semester- I)[Level 5.5]

						Teachi	ng & Le	arning Scheme		Duration			Examinat	ion & Evalu	ation Sche	me		
		T 6	G 1. 4					arining Seneme		Of Exam		Maxir	num Mark	s				
S. N.	Subject	Type of Course	Subject Code	Т		ng Perio Week	d	Credits		Hours	Theor	y	Pra	ctical	Total		imum Passi	.ng
				L	Т	P	Total	L/T Practical	Total		Theory+MCQ Internal	Theory External	Internal	External	Marks	Marks Internal	Marks External	Grade
0	*Pre-Requisite Course(s) if applicable/MOOC/Internship/Field Work cumulatively If students wish to opt Minor Course of UG as Major for PG, balance 12 CreditsCourse will have to be completed (As and when applicable)	Th-Prq		0	0	0	0	Additional Cred earned = (1) mi (1). Credits from DSC Courses (minus) (2).The Credits earned from the 0 Minor at UG, no	nus(2) n Major in UG already Course as ow to be	2	20	30			50	08	12	P
1	Research Methodology and IPR	Th- Major		4			4	4	4	3	40	60			100	16	24	P
2	DSC-I.1 Introduction to Herbal Science	Th- Major		4			4	4	4	3	40	60			100	16	24	P
3	DSC-II.1 Taxonomy of Medicinal Plants	Th- Major		4			4	4	4	3	40	60			100	16	24	P
	DSC-III.1 Medicinal Plant Cultivation	Th- Major		3			3	3	3	3	40	60			100	16	24	P
4	DSE-I 1. Phytochemistry and Pharmacognosy- I 2. Herbal Drug Technology- I	Th- Major Elective		3			3	3	3	3	40	60			100	16	24	Р
																	m Passing arks	Grade
5	DSC-I.1 (Lab-1)	Pr- Major				2	2	1	1	3			25	25	50		25	P
6	DSC- II.1 (Lab-2)	Pr- Major				2	2	1	1	3			25	25	50		25	P
7	DSC-III.1 (Lab- 3)	Pr- Major				2	2	1	1	3			25	25	50		25	P
8	DSE-I (Lab-4)	Pr-				2	2	1	1	3			25	25	50		25	P

	Basket of two electives	Major Elective									
9	# On Job Training, Internship/ Apprenticeship; Field projects Related to Major @ during vacations cumulatively	Related to DSC	cum during Seme	vacat	vely ions of Iand	4*					P*
10	Co-curricular Courses: Health and wellness, Yoga Education, Sports and Fitness, Cultural Activities, NSS/NCC, Fine/Applied/Visual/Performing Arts During SemesterI, II, III and IV	Generic Optional	90 Cum From S		vely						
	TOTAL					22			700 + 50		

Pre-requisite Course mandatory if applicable: **Prq**, Theory :**Th**, Practical/Practicum: **Pr**, Faculty Specific Core: **FSC**, Department Specific Core: **DSC**, Department Specific Elective: **DSE**, Laboratory: **Lab**, **OJT**: On Job Training: Internship/Apprenticeship; Field projects: **FP**; **RM**: Research Methodology; Research Project: **RP**, **Co-curricular Courses: CC**

Note: # On Job Training, Internship/ Apprenticeship; Field projects Related to Major (During vacations of Semester I and Semester II) for duration of 120 hours mandatory to all the students, to be completed during vacations of Semester I and/or II. This will carry 4 Credits for learning of 120 hours. Its credits and grades will be reflected in the Semester II credit grade report.

Note: Co-curricular Courses: In addition to the above, CC also include but not limited to Academic activities like paper presentations in conferences, Aavishkar, start-ups, Hackathon, Quiz competitions, Articles published, Participation in Summer school/ Winter School / Shortterm course, Scientific Surveys, Societal Surveys, Field Visits, Study tours, Industrial Visits, online/offline Courses on Yoga (Yoga for IQ development, Yoga for Ego development, Yoga for Anger Management, Yoga for Eyesight Improvement, Yoga for Physical Stamina, Yoga for Stress Management, etc.). These can be completed cumulatively during SemestersI, II, III and IV. Its credits and grades will be reflected in semester IV credit grade report.

Corrigendum: For Examination and Evaluation of Theory Courses, 40 % of Marks shall be assigned to the Internal Examination and 60% of Marks shall be assigned to the end-semester external university examination.

Now, MCQ, if any, will be part of the Internal Assessment only (40%).

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(Two Years- Four Semesters Master's Degree Programme- NEPv23 with Exit and Entry Option

M. Sc. Herbal Science (Semester- II) [Level 6.0]

						Teacl	ning & I	Learnin	ng Scheme		Duration				on & Evalua	ation Sche	eme		
S.		Type of	Subject								Of Exam		Maxim	um Marks					
N.	Subject	Course	Code	Te		ng Pe Weel			Credits		Hours	Theor	y	Pra	ctical	Total	Min	imum Passi	ng
				L	T	P	Total	L/T	Practical	Total		Theory+MCQ Internal	Theory External	Internal	External	Marks	Marks Internal	Marks External	Grade
1	DSC-I.2 (Bioactive Principles from Plants)	Th- Major		4			4	4		4	3	40	60			100	16	24	P
2	DSC-II.2 (Biotechnology in Secondary Metabolite Production)	Th- Major		4			4	4		4	3	40	60			100	16	24	P
3	DSC-III.2 (Adulteration, Drug Evaluation, and Pharmacopoeial Standard)	Th- Major		3			3	3		3	3	40	60			100	16	24	P
4	DSE-II 1. Phytochemistry and Pharmacognosy- II 2. Herbal Drug Technology- II	Th- Major Elective		3			3	3		3	3	40	60			100	16	24	P
																		 m Passing arks	
5	DSC-I.2 (Lab-V)	Pr- Major				2	2		1	1	3			25	25	50	2	25	P
6	DSC-II.2 (Lab- VI)	Pr- Major				2	2		1	1	3			25	25	50	2	25	P
7	DSC-III.2 (Lab- VII)	Pr- Major				2	2		1	1	3			25	25	50	2	25	P
8	DSE-II (Lab-VIII) Elective	Pr- Major Elective				2	2		1	1	3			25	25	50	2	25	P
9	# On Job Training, Internship/ Apprenticeship; Field projects Related to Major @ during vacations cumulatively	Related to Major		cum d vaca Se Se) Hou ulativ uring ations meste Iand nester	vely g s of er r II				4*									P*
10	Co-curricular Courses: Health	Generic		90	Hou	rs													

and wellness, Yoga Education, Sports and Fitness, Cultural Activities, NSS/NCC, Fine/Applied/Visual/Performing Arts During Semester I, II, III and IV	Optional	Cumulatively From Sem I to Sem IV										
		• Stu		on with a PG Diplo Total minimum 4 C after First Y	Credits cum	Vacations of	Semester	and Semes	ster II fro	m internshi	p in order t	o exit
TOTAL				18+4*					600			

Pre-requisite Course mandatory if applicable: **Prq**, Theory: **Th**, Practical/Practicum: **Pr**, Faculty Specific Core: **FSC**, Department Specific Elective: **DSE**, Laboratory: **Lab**, OJT: On Job Training: Internship/ Apprenticeship; Field projects: **FP**; **RM**: Research Methodology; Research Project: **RP**, **Co-curricular Courses: CC**

Note: # On Job Training, Internship/ Apprenticeship; Field projects Related to Major(During vacations of Semester I and Semester II) for duration of 120 hours mandatory to all the students, to be completed during vacations of Semester I and/or II. This will carry 4 Credits for learning of 120 hours. Its credits and grades will be reflected in Semester II credit grade report.

Note: Co-curricular Courses: In addition to the above, CC also include but not limited to Academic activities like paper presentations in conferences, Aavishkar, start-ups, Hackathon, Quiz competitions, Article published, Participation in Summer school/ Winter School / Short term course, Scientific Surveys, Societal Surveys, Field Visits, Study tours, Industrial Visits, online/offline Courses on Yoga (Yoga for IQ development, Yoga for Ego development, Yoga for Anger Management, Yoga for Physical Stamina, Yoga for Stress Management, etc.). These can be completed cumulatively during Semester I, II, III and IV. Its credits and grades will be reflected in semester IV credit grade report.

Faculty of Science and Technology

Scheme of Teaching, Learning, Examination & Evaluation leading to Two Years PG Degree Master of Herbal Science following Three Years UG Programme w.e.f. 2023-24

(Two Years- Four Semesters Master's Degree Programme- NEPv23 with Exit and Entry Option

M. Sc. Herbal Science (Semester- III) [Level 6.5]

							g & Learni				Duration	,		Examinat	tion & Evalu	ation Scho	eme		
S. N.	Subject	Type of Course	Subject Code	Te	eaching Per W				Credits		Of Exam Hours	Theo		mum Marks Prae	ctical		Mir	nimum Passi	ing
				L	T	P	Total	L/T	Practical	Total		Theory+ MCQ Internal	Theory External	Internal	External	Total Marks	Marks Internal	Marks External	Grade
1	DSC-I.3 Contemporary Applied Technological Advancements in Herbal Science	Th- Major		4			4	4		4	3	40	60			100	16	24	P
2	DSC-II.3 Indian System of Medicine: Ayurveda	Th- Major		4			4	4		4	3	40	60			100	16	24	P
2	DSC-III.3 Pharmacognosy and Pharmacology	Th- Major		3			3	3		3	3	40	60			100	16	24	P
3	DSE-III 1. Phytochemistry and Pharmacognosy- III 2. Herbal Drug Technology- III	Th- Major Elective		3			3	3		3	3	40	60			100	16	24	P
																		n Passing arks	
4	DSC-I.3 (Lab- IX)	Pr- Major				2	2		1	1	3			25	25	50	2	25	P
5	DSC-II.3 (Lab- X)	Pr- Major				2	2		1	1	3			25	25	50	2	25	P
6	DSC-III.3 (Lab- XI)	Pr- Major				2	2		1	1	3			25	25	50	2	25	P
7	DSE-III (Lab- XII) Elective	Pr- Major Elective				2	2		1	1	3			25	25	50	2	25	P
	Research Project Phase-I	Major			2	4	6	2	2	4				50		50	2	25	P
8	Co-curricular Courses: Health and wellness, Yoga Education, Sports and Fitness, Cultural Activities, NSS/NCC, Fine/Applied/Visual/Performing Arts	Generic Optional			Hours latively I to Ser														

During Semester I, II, III and IV										
TOTAL					22			650		

Pre-requisite Course mandatory if applicable: **Prq**, Theory :**Th**, Practical/Practicum: **Pr**, Faculty Specific Core: **FSC**, Department Specific Core: **DSC**, Department Specific Elective: **DSE**, Laboratory: **Lab**, **OJT**: On Job Training: Internship/Apprenticeship; Field projects: **FP**; **RM**: Research Methodology; Research Project: **RP**, **Co-curricular Courses: CC**

Note: Co-curricular Courses: In addition to the above, CC also include but not limited to Academic activities like paper presentations in conferences, Aavishkar, start-ups, Hackathon, Quiz competitions, Article published, Participation in Summer school/ Winter School / Short term course, Scientific Surveys, Societal Surveys, Field Visits, Study tours, Industrial Visits, online/offline Courses on Yoga (Yoga for IQ development, Yoga for Ego development, Yoga for Anger Management, Yoga for Eyesight Improvement, Yoga for Physical Stamina, Yoga for Stress Management, etc.). These can be completed cumulatively during Semester I, II, III and IV. Its credits and grades will be reflected in semester IV credit grade report.

Faculty of Science and Technology

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(Two Years- Four Semesters Master's Degree Programme- NEPv23 with Exit and Entry Option

M. Sc. Herbal Science (Semester- IV)[Level 7.0]

					Т	eachin	g & Learni	ng Sche	eme		Duration			Examina	tion & Evalu	ation Scho	eme		
s.	G 11	Type of	Subject	т	eaching	Dariad					Of Exam Hours		Maxi	mum Mark	S	T	Mir	nimum Passi	ing
N.	Subject	Course	Code	1	Per W				Credits			Theo	ry	Pra	ctical	Total	IVIII	iiiiuiii F assi	ing
				L	Т	P	Total	L/T	Practical	Total		Theory+ MCQ Internal	Theory External	Internal	External	Marks	Marks Internal	Marks External	Grade
1	DSC-I.4 Plant Nutraceuticals	Th-Major		4			4	4		4	3	40	60			100	16	24	P
2	DSC-II.4 indian Systems of Medicine: Siddha, Unani and Tibetan	Th-Major		4			4	4		4	3	40	60			100	16	24	P
3	DSC- III.4 Medicinal Plants Case Studies	Th-Major		3			3	3		3	3	40	60			100	16	24	P
4	DSE-IV 1. Phytochemistry and Pharmacognosy- IV 2. Herbal Drug Technology- IV	Th-Major Elective		3			3	3		3	3	40	60			100	16	24	Р
																		n Passing arks	
	DSC-I.4 (Lab- XIII)	Pr-Major				2	2		1	1	3			25	25	50		25	P
5	DSC-II.4 (Lsb- XiV)	Pr-Major				2	2		1	1	3			25	25	50		25	P
7	DSC-III.4(Lab- XV)	Pr-Major				2	2		1	1	3			25	25	50	2	25	P
8	DSE-IV(Lab- XVI) (Basket of two electives)	Pr-Major Elective				2	2		1	1	3			25	25	50	2	25	P
9	Research Project Phase-II	Major			2	8	10	2	4	6	3			75	75	150	7	75	P
10	Co-curricular Courses: Health and wellness, Yoga Education, Sports and Fitness, Cultural Activities, NSS/NCC, Fine/Applied/Visual/Performing Arts During Semester I, II, III and IV	Generic Optional			Hours ulatively 1 I to Sei														

TOTAL					24			750		

Pre-requisite Course mandatory if applicable: **Prq**, Theory :**Th**, Practical/Practicum: **Pr**, Faculty Specific Core: **FSC**, Department Specific Core: **DSC**, Department Specific Elective: **DSE**, Laboratory: **Lab**, **OJT**: On Job Training: Internship/ Apprenticeship; Field projects: **FP**; **RM**: Research Methodology; Research Project: **RP**, **Co-curricular Courses: CC**

Note: Co-curricular Courses: In addition to the above, CC also include but not limited to Academic activities like paper presentations in conferences, Aavishkar, start-ups, Hackathon, Quiz competitions, Article published, Participation in Summer school/ Winter School / Short term course, Scientific Surveys, Societal Surveys, Field Visits, Study tours, Industrial Visits, online/offline Courses on Yoga (Yoga for IQ development, Yoga for Ego development, Yoga for Anger Management, Yoga for Eyesight Improvement, Yoga for Physical Stamina, Yoga for Stress Management, etc.). These can be completed cumulatively during Semester I, II, III and IV. Its credits and grades will be reflected in semester IV credit grade report.

Table: Comprehensive Credits distribution amongst the type of Courses over Two Years (Four Semesters) PG Programme and Minimum Credits to be earned for PG Degree [Master in Faculty Science and Technology; Major – Herbal Science]

Sr.	Type of Course		Total Credits	Minimum
No.	15.170		Offered	Credits Required
1	MAJOR			
	i. DSC	56		56
	ii. DSE	16		16
	TOTAL		72	72
2	Research Methodology and IPR (FSC/DSC: Major)	04	04	04
2	On Job Training, Internship/ Apprenticeship; Field projects Related to Major	04	04 for 120 Hours OJT/FP cum.	02 (Minimum 60 Hours OJT/FP is mandatory)
3	Research Project	10	10	10
	OPTIONAL			
4	Co-Curricular Courses (offline and/or online as applicable): Co-curricular Courses: Health and wellness, Yoga Education, Sports and Fitness, Cultural Activities, NSS/NCC, Fine/Applied/Visual/Performing Arts, CC also include but not limited to Academic activities like paper presentations in conferences, Aavishkar, start-ups, Hackathon, Quiz competitions, Articlepublished, Participation in Summer school/ Winter School / Shortterm course, Scientific Surveys, Societal Surveys, Field Visits, Study tours, Industrial Visits, online/offline Courses on Yoga (Yoga for IQ development, Yoga for Ego development, Yoga for Anger Management, Yoga for Eyesight Improvement, Yoga for Physical Stamina, Yoga for Stress Management, etc.).		Limited to Maximum 03 only (For 90 Hours of CC cumulatively)	00
	TOTAL			
	TOTAL		93	88

Table A: Comprehensive Credit Distribution for CC

S.	Activities (offline/online as applicable)			Credit	s at Level	S		Letter Grade
N.		College	University	State	Zone if exist	National	International if exist	
1	Health and wellness, Yoga* Competitions *If a Course (online/offline) on Yoga is completed for 60 Hours, 2 credits will be awarded to the student (1 Credit = 30 Hours)	1	2	3	4	5	6	P (Pass)
2	Unnat Bharat Abhiyan[UBA]	1	2	3	4	5	6	P (Pass)
3	Sports and fitness activities (see separate Table B)	1	1/2	2/3	3/4	4/5	5/6	P (Pass)
4	Cultural activities, Fine/Applied/Visual/Performing Arts	1	2	3	4	5	6	P (Pass)
5	N.S.S. activities Camps	1	2	3	4	5	6	P (Pass)
6	Academic activities like Research Paper/Article/Poster presentations, Aavishkar, start-up, Hackathon, Quiz competitions, other curricular, co-curricular activities, student exchange program etc.	1	2	3	4	5	6	P (Pass)
	Research Paper/Article published		1	2	-	4	6	P (Pass)
7	Participation in Summer school/ Winter School / Short term course			2 (Credits			P (Pass)
	(not less than 30 hours 1 or 2 weeks duration) (not less than 60 hours 2 or 3 weeks duration)			4 (Credits			P (Pass)
	Scientific Surveys, Societal Surveys			2 (Credits			P (Pass)
	Field Visits, Study tours, Industrial Visits,				Credit			P (Pass)
8	NCC Activities			As	given in 7	Γable C		

Table B: Credit Distribution for Sports and Fitness

Sr. No.	Particulars of Sports Status (Individual/ Team)	Credits	Letter Grade
1	College Level Participation	1	P (Pass)
2	University Level Participation	1	P (Pass)
3	University Level Rank 1, 2, 3	2	P (Pass)
4	State Level Participation	2	P (Pass)
5	State Level Rank 1, 2, 3	3	P (Pass)
6	Zonal Level Participation	3	P (Pass)
7	Zonal Level Rank 1, 2, 3	4	P (Pass)
8	National Level Participation	4	P (Pass)
9	National Level Rank 1, 2, 3	5	P (Pass)
10	International Level Participation	5	P (Pass)
11	International Level 1,2,3	6	P (Pass)

Table C: Credit Distribution for NCC activities

Sr. No.	Particulars of NCC Activities	Credits	Letter Grade
1	Participation in NCC activities	1	P (Pass)
2	'B' Certificate obtained	2	P (Pass)
3	'C' Certificate obtained	3	P (Pass)
4	State Level Participation	4	P (Pass)
5	National level Participation	5	P (Pass)
6	International Level Participation	6	P (Pass)

Sant Gadge Baba Amravati University, Amravati Additional Instructions to the Paper Setters M.Sc.Herbal Science as per Scheme under NEP 2020

The duration of University theory examination shall be of Three hours or appropriate hours as prescribed in the syllabus/curriculum of the pertinent course

The Maximum Marks for the Question Paper shall be 60

The Question Paper shall consist of Short Answer type (60%) and Long Answer type (40%) questions.

Examiner shall set Long answer type Questions and Short Answer type Questions as specified in the following Table or as applicable as per the curriculum.

There shall be internal choice for Short-Answer type Question as well as Long Answer type Question for every Unit.

The Question paper should be set based on the Course Outcomes (COs) defined in the curriculum and setter shall ensure that all the outcomes are addressed through appropriate questions. Read and study the Course Outcomes of a paper/subject/course very carefully.

The Questions should help to measure attainment of their corresponding Course Outcomes as prescribed in the syllabus/curriculum. All questions must be mapped to their related Course Outcomes.

Questions paper should try to address the different levels of learning (Bloom's Taxonomy)

i.e. Knowledge/Remembering, Understanding, Applying, Analyzing, Evaluating and Creating

All Units mentioned in the course should be covered with equal weightage. The question paper shall be set so as to cover the entire syllabus of the respective course (paper).

The degree of difficulty of the question paper should be such that a student, who has engaged himself in the continuous learning process should be able to clear with ease. However, for scoring further his all-round knowledge and skills should be tested.

Model Solutions/answers to the short answer type questions and long answer type questions and scheme of marking for all question shall be submitted along with the question paper in a separate envelope.

Please ensure that the total marks for a course/subject/paper amounts to the prescribed total as notified in the scheme/curriculum. The total number of marks available for each question and each part of a question should be shown in the mark scheme and must tally with the marks shown on the question paper.

Avoid Questions like "Write short notes on ..."

The question paper should be precise and should be designed such that the questions:

- are unambiguous
- are asked for appropriate marks
- The questions should be serially numbered as 01, 02, 03, 04, 05, 06 etc.
- Sub-questions, if any, shall be numbered as A,B,C,D,... continuously for all Units
- It must be ensured that all questions are from within the prescribed syllabus

The paper setters should specify whether any Charts, Graphs, Tables, Codes, Books etc. are to be provided to the students. The use of which shall be permitted during the actual conduct of the examination.

For Short-Answer type Questions, ensure that:

- the item calls for a single, brief answer
- the item has been written as a direct question

- the desired response is related to the main point of the item
- clues to the answer have been avoided (e.g. "a" or "an", length of the blank)
- the units and degree of precision is indicated for numerical answers.

 For Long Answer type questions, make sure that:
 questions starting questions with "who", "what", "when", "where", "name", "list" are avoided as these terms limit the response.
 questions must follow Bloom's taxonomy with inclusion of following levels:

Table 1: Sample Terms for inclusion in Questions

Outcome	Sample Terms		
Comparing	Compare, classify, describe, distinguishbetween, explain, outline, summarize, etc.		
Interpreting	Convert,draw,estimate,illustrate,interpret,restate,summarize,translate, etc.		
Inferring	Derive, draw, estimate, extend, extrapolate, predict, propose, relate, etc.		
Applying	Arrange,compute,describe,demonstrate,illustrate,rearrange,relate, summarize, etc.		
Analyzing	Breakdown,describe,diagram,differentiate,divide,list,outline,separate, etc.		
Creating	Compose, design, devise, draw, formulate, makeup, present, propose, etc.		
Synthesizing	Arrange, combine, construct, design, rearrange, regroup, relate, write, etc.		
Generalizing	Construct, develop, explain, formulate, generate, make, propose, state, etc.		
Evaluating	Appraise, criticize, defend, describe, evaluate, explain, judge, write, etc.		

Table 2. Distribution of Marks amongst Question paper

Total marks	Marks for Long -	Distribution of Unit wise Long/Short Answer type Questions
of Theory Paper	Short Answer	
60	60	Long Answer: Two Questions
		5 Marks (Two Questions) or 10 Marks (One Question)
		Short Answer: Four Questions
		3 + 3 + 4 Marks

Note: For a unit, an identical pattern of long and short answer shall be adhered for internal choice, that is 'either-or' questions shall be in same pattern.

Table 3: Model Question Paper Pattern

Sr. No of		Marks
Question	Questions	allotted
S		to each
		Question
	M.Sc. I (Botany) Semester-I Examination NEP - 2020	
	Paper Title As per Curriculum	
	Time: Three Hours Total marks: 60 N.B.: (1) All questions are compulsory	
	Draw well labelled diagrams whenever necessary.	
	Students may use various colors to signify answers.	
Q. No.	Explain in Brief (Short Type)	
A.		3
B.		3
C.		4
	OR	
D.		3
E.		3
F.		4
Q. No.	Explain in detail (Long type question)	
G.		10
	OR	
H.		10
Q. No.	Explain in detail (Long type question)	
I.		5
J.		5
	OR	
K.		5
L.		5

Note:

Paper Setter Shall set 4 Short Type and Two Long Type (either 10 Marks for One Question or 5 Marks each for Two Questions)

The Units from the Curriculum for Short and Long Type of Questions shall not be same for all the sets. Paper Setter shall decide it variably from the Units under the curriculum. Avoid / Minimize the questions-based Fist level of learning as per Blooms Taxonomy like – Define, State, Quote, List the steps, Identify, Who Discovered, Name the parts of, Recite the rules for, etc.

Strictly Avoid -

Once the Question Type is decided and prefixed as Explain / Describe / Distinguish / in details then while setting sub questions under the same should not repeat the usage of the same For Ex.

Q1: Describe in Details:

Sub question 1A: Describe functional aspects of F1 Particles Sub question 1B: Explain Biosynthetic pathway of Pyruvic Acid Sub question 1B: Distinguish between Aerobic and Anaerobic Respiration Instead, it should be:

Q1: Describe in Details:

Sub question 1A: Functional aspects of F1 Particles Sub question 1B: Biosynthetic pathway of Pyruvic Acid

Sub question 1B: Features of Aerobic and Anaerobic Respiration

Consistency shall be maintained in sub-questions as A, B, C, D, Z

On exhaustion of the alphabets use AA, AB, AC, AD AZ in continuation for the further questions.