

Nalanda Open University
Annual Examination - 2021
B.Sc. Zoology (Honours), Part-I
Paper-I

Time: 3.00 Hrs.

Full Marks: 80

Answer any Five questions. Question No. 1 is Compulsory. All questions are of equal value

1. Multiple choice questions. (Each question carries **Two** marks).
 - (i) The intermediate host of filarial worm is:
 - (a) Tsetsefly
 - (b) Housefly
 - (c) Female Culex mosquito
 - (d) Sandfly
 - (ii) Locomotory organs of starfish is:
 - (a) Podia
 - (b) Pseudopodia
 - (c) Polian vesicle
 - (d) Cilia.
 - (iii) Which one is a Jelly fish:
 - (a) Aurelia
 - (b) Obelia
 - (c) Metridium
 - (d) Hormiphora.
 - (iv) Microfilaria is the larva of :
 - (a) Tape Worm
 - (b) Round Worm
 - (c) Pin Worm
 - (d) Filarial Worm
 - (v) Infective stage of Entamoeba histolytica is:
 - (a) Uninucleate eyst
 - (b) Binucleate cyst
 - (c) Tetranucleate cyst
 - (d) Pentanucleate eyst.
 - (vi) Ostia are found on the body surface of which of the following animals:
 - (a) Syscon
 - (b) Obelia
 - (c) Fasciola
 - (d) Ascaris
 - (vii) Two types of nucleus are found in:
 - (a) Verticella
 - (b) Amoeba
 - (c) Paramecium
 - (d) Euglena
 - (viii) Movement of food vacuoles in Paramecium along a definite path is Called:
 - (a) Exomixis
 - (b) Endomixis
 - (c) Cylosis
 - (d) None of the above.
2. Describe the structure and life cycle of Entamoeba histolytica .
3. Give an account of canal system of sponges.
4. Describe the mouth parts of cockroach with their functions.
5. Describe the nervous system of Pila.
6. Give an account of Water Vesicular system of starfish.
7. Describe the life cycle of Protozoa which causes Kala-agar.
8. Describe the life cycle of Taenia Solium.
9. Describe the excretory organs of leech with suitable diagram.
10. Write short notes on any **Two** of the following:
 - (a) Statocysts.
 - (b) Bipinnaria larva
 - (c) Radialarva
 - (d) Polymorphism.



Programme of B.Sc. Part-I Zoology (Hons.)
Annual Practical Counselling & Practical Examination - 2021
 Venue : 1st Floor Zoology Lab, Biscomaun Tower, Patna - 800 001
(A) Practical Counselling Classes of Zoology (Hons.)

Date	Paper	Time	Enrolment No
31.03.2022	I and II	11.00 AM to 03.00 PM	All Old Students

(B) Practical Examination of Zoology (Hons.)

Date	Paper	Time	Enrolment No
02.04.2022	I	08.30 AM to 11.00 AM	All Old Students
02.04.2022	II	11.30 AM to 02.00 PM	

Nalanda Open University
Annual Examination - 2021
B.Sc. Zoology (Honours), Part-I
Paper-II

Time: 3.00 Hrs.

Full Marks: 80

Answer any Five questions. All questions are of equal value

1. What is Biosphere? Describe the different types of lithosphere.
2. Describe the abiotic and biotic components of Pond Ecosystem.
3. Write an essay on wild life conservation in India.
4. Define pollution. Discuss sources and controls of water pollution.
5. What is innate behavior? Discuss various kinds of innate behaviour with suitable illustration.
6. Describe the different mode of parental care in fisher.
7. Write the names of five pests of sugar canes and mention the life-cycle of any one of them.
8. Describe various kinds of learnt behavior with suitable examples.
9. Describe the biological clock and its significances.
10. Write short notes on *any two* of the following:
 - (a) Beedance
 - (b) Food web
 - (c) Mutualism
 - (d) Acid Rain



Programme of B.Sc. Part-I Zoology (Hons.)
Practical Counselling and Examination 2021
Venue : 1st Floor, Zoology Lab, Biscomaun Tower, Patna
(A) Practical Counselling Classes of Zoology (Hons.)

Date	Enrollment No.	Batch	Paper	Time
31.03.2022	All Old Students & 200510001 to 200510109	Z1	I and II	11:00 AM to 03:00 PM
01.04.2022	200510110 to 200510200	Z2	I and II	11:00 AM to 03:00 PM
05.04.2022	200510201 to 200510295	Z3	I and II	11:00 AM to 03:00 PM
06.04.2022	200510296 to 200510495	Z4	I and II	11:00 AM to 03:00 PM
09.04.2022	200510496 to 200510630	Z5	I and II	11:00 AM to 03:00 PM

(B) Practical Examination of Zoology (Hons.)

Date	Enrollment No.	Batch	Paper	Time
02.04.2022	All Old Students & 200510001 to 200510109	Z1	I	08:30 AM to 11:00 AM
			II	11:30 AM to 02:00 PM
04.04.2022	200510110 to 200510200	Z2	I	08:30 AM to 11:00 AM
			II	11:30 AM to 02:00 PM
07.04.2022	200510201 to 200510295	Z3	I	08:30 AM to 11:00 AM
			II	11:30 AM to 02:00 PM
08.04.2022	200510296 to 200510495	Z4	I	08:30 AM to 11:00 AM
			II	11:30 AM to 02:00 PM
11.04.2022	200510496 to 200510630	Z5	I	08:30 AM to 11:00 AM
			II	11:30 AM to 02:00 PM

Nalanda Open University
Annual Examination - 2021
B.Sc. Zoology (Subsidiary), Part-I
Paper-I

Time: 3.00 Hrs.

Full Marks: 80

Answer any Five questions. All questions are of equal value

1. Describe the structure and life cycle of obelia.
2. Describe the reproductive organs of Pheretima.
3. Describe the nervous system of Pila-globosa.
4. Describe Water-vascular system in Starfish.
5. Describe the ultra-structure of an animal cell.
6. Describe the process of crossing over and mention its utility.
7. Give an account of Parthenogenesis.
8. Describe the process of locomotion in Hydra.
9. Discuss different theories of Darwinism.
10. Write short notes on **any Two** of the following:
 - (a) Bipinnaria larva
 - (b) Golgi Body
 - (c) Statocyst of Prawn
 - (d) Green gland of Palaemon



**Practical Counselling Classes and Practical Examination Programme, 2021 of
B.Sc., Part-I (Zoology Subsidiary, Paper-I)**

Venue : 1st Floor, Zoology Lab, Biscomaun Tower, Patna

(A) Practical Counselling Class Programme

<i>Date</i>	<i>Enrollment No.</i>	<i>Paper</i>	<i>Time</i>
12.04.2022	All B.Sc Honours Student	I	08.30 AM to 10.30 AM

(B) Practical Examination of Zoology (Hons.)

<i>Date</i>	<i>Enrollment No.</i>	<i>Paper</i>	<i>Time</i>
13.04.2022	All B.Sc Honours Student	I	08.00 AM to 10.30 AM

Nalanda Open University
Annual Examination - 2021
B.Sc. Zoology (Honours), Part-II
Paper-III

Time: 3.00 Hrs.

Full Marks: 80

Answer any Five questions. All questions are of equal value.

1. What do you mean by retrogressive metamorphosis ? Explain with one example.
2. Describe the process of respiration in Labio-rohita.
3. Classify living reptiles up to orders giving example.
4. Describe distribution and affinities of Prototheria.
5. Describe feeding mechanism of a Snake.
6. Describe general character and affinities of Dipnoi.
7. Describe the systematic position and external features of Herdmania.
8. Describe the different feathers found in Pigeon.
9. Write an essay on “Origin and evolution of Chordates”.
10. Write notes on any **Two** of the following:-

(a) Syrinx	(b) Morula stage
(c) Wheel organ in Amphioxus	(d) Tadpole Larva.



Nalanda Open University, Patna
Programme of B.Sc. Part-II Zoology (Hons.),
Practical Class and Practical Examination, 2021
Venue : 1st Floor, Zoology Lab, Biscomaun Tower, Patna

(A) Practical Counselling Class

<i>Date</i>	<i>Enrollment No.</i>	<i>Batch</i>	<i>Paper</i>	<i>Time</i>
17.05.2022	All Old Students & 190510001 to 190510066	Z1	III & IV	11:00 AM to 04:00 PM
18.05.2022	190510067 to 190510169	Z2	III & IV	11:00 AM to 04:00 PM
21.05.2022	190510170 to 190510279	Z3	III & IV	11:00 AM to 04:00 PM
23.05.2022	190510280 to 190510378	Z4	III & IV	11:00 AM to 04:00 PM
26.05.2022	190510379 to 190510550	Z5	III & IV	11:00 AM to 04:00 PM

(B) Practical Examination

<i>Date</i>	<i>Batch</i>	<i>Paper</i>	<i>Time</i>	<i>Paper</i>	<i>Time</i>
19.05.2022	Z1	III	08:00 AM to 11:00 AM	IV	11.00 AM to 02.00 PM
20.05.2022	Z2	III	08:00 AM to 11:00 AM	IV	11.00 AM to 02.00 PM
24.05.2022	Z3	III	08:00 AM to 11:00 AM	IV	11.00 AM to 02.00 PM
25.05.2022	Z4	III	08:00 AM to 11:00 AM	IV	11.00 AM to 02.00 PM
27.05.2022	Z5	III	08:00 AM to 11:00 AM	IV	11.00 AM to 02.00 PM

Nalanda Open University
Annual Examination - 2021
B.Sc. Zoology (Honours), Part-II
Paper-IV

Time: 3.00 Hrs.

Full Marks: 80

Answer any Five questions. All questions are of equal value.

1. Describe the integumental derivatives of mammal.
2. Describe the development of Chick embryo up to three-germinal layers.
3. Give an account of gastrulation in Frog.
4. Justify the statement that “Birds are glorified Reptiles.”
5. What is placenta ? Describe the development of placenta and its functions in mammal.
6. How brain of reptiles differs from the brain of mammal.
7. Describe the mammalian heart in detail.
8. Give an account of different types of cleavage pattern.
9. Describe aortic arches in Bird.
10. Write notes on any **Two** of the following:-
 - (a) Airsac
 - (b) Sweet gland
 - (c) Bicuspid valve
 - (d) Medulla oblongata



Nalanda Open University, Patna
Programme of B.Sc. Part-II Zoology (Hons.),
Practical Class and Practical Examination, 2021
Venue : 1st Floor, Zoology Lab, Biscomaun Tower, Patna
(A) Practical Counselling Class

Date	Enrollment No.	Batch	Paper	Time
17.05.2022	All Old Students & 190510001 to 190510066	Z1	III & IV	11:00 AM to 04:00 PM
18.05.2022	190510067 to 190510169	Z2	III & IV	11:00 AM to 04:00 PM
21.05.2022	190510170 to 190510279	Z3	III & IV	11:00 AM to 04:00 PM
23.05.2022	190510280 to 190510378	Z4	III & IV	11:00 AM to 04:00 PM
26.05.2022	190510379 to 190510550	Z5	III & IV	11:00 AM to 04:00 PM

(B) Practical Examination

Date	Batch	Paper	Time	Paper	Time
19.05.2022	Z1	III	08:00 AM to 11:00 AM	IV	11.00 AM to 02.00 PM
20.05.2022	Z2	III	08:00 AM to 11:00 AM	IV	11.00 AM to 02.00 PM
24.05.2022	Z3	III	08:00 AM to 11:00 AM	IV	11.00 AM to 02.00 PM
25.05.2022	Z4	III	08:00 AM to 11:00 AM	IV	11.00 AM to 02.00 PM
27.05.2022	Z5	III	08:00 AM to 11:00 AM	IV	11.00 AM to 02.00 PM

Nalanda Open University
Annual Examination – 2021
(Only For Yoga Hon's)
B.Sc. Zoology (Subsidiary), Part-II
Paper-II

Time: 3.00 Hrs.

Full Marks: 80

Answer any Five questions. All questions are of equal value.

1. Describe the digestive system of scoliodon.
2. Describe the distribution and affinities of prototheria.
3. Give an account of flight adaptation in Bird.
4. Give an account of structure and classification of protein.
5. Classify living reptiles up to orders with examples.
6. Describe the development of chick up to three germinal layers.
7. Explain the statement "Pituitary gland is a master endocrine gland."
8. Describe the structure and functions of different hormones secreted by Adrenal gland.
9. Discuss retrogressive metamorphosis in Herdmania.
10. Write notes on any two of the following:
 - (a) Goiter
 - (b) Placoid scle
 - (c) Air sacs
 - (d) Hypoxia



B.Sc. Zoology, Chemistry & Physics (Subsidiary), Part II, Practical Exam 2021

[For B.Sc Yoga (Hons. Part-II Students)]

Venue: For Zoology - 1st Floor, Zoology Lab, Biscomaun Tower, Patna-1

For Physics- 1st Floor, Physics Lab, Biscomaun Tower, Patna-1

For Chemistry- 1st Floor, Chemistry Lab, Biscomaun Tower, Patna-1

Annual Practical Examination 2021

Date	Time	
	11.00 AM to 2.00 PM	2.30 PM to 05.30 PM
29.09.2022	-----	Zoology (Subsidiary)
30.09.2022	Chemistry (Subsidiary)	Physics (Subsidiary)

Nalanda Open University
Annual Examination - 2021
B.Sc. Zoology (Honours), Part-III
Paper-V

Time: 3.00 Hrs.

Full Marks: 80

Answer any five questions. Questions No. 1 is compulsory. All questions carry equal marks.

1. Multiple choice questions. (Each question carries Two marks)
 - (i) Ultrafiltration occurs in:

(a) Renal tubules	(b) Blood capillaries
(c) Glomerulus	(d) Urinary bladder
 - (ii) Which of the blood group is universal donor?

(a) Group 'A'	(b) Group 'AB'
(c) Group 'B'	(d) Group 'O'
 - (iii) Vitamin D is absorbed in:

(a) Small intestine	(b) Stomach
(c) Large intestine	(d) Pancreas
 - (iv) Vitamin 'E' is stored in:

(a) Microsome	(b) Mitochondria
(c) Both (a) and (b)	(d) None of these
 - (v) The main function of kidney is:

(a) Passive absorption	(b) Ultrafiltration
(c) Selective absorption	(d) Both (b) and (c)
 - (vi) Protein present in the matrix of connective tissues is:

(a) Collagen	(b) Protamine
(c) Globulin	(d) Albumin
 - (vii) Non-reducing sugar is:

(a) Lactose	(b) Maltose
(c) Sucrose	(d) Glucose
 - (viii) Heart of man is:

(a) Digenetic	(b) Myogenic
(c) Cardiogenic	(d) Neurogenic
2. Give an account of different factors responsible for blood clotting.
3. Describe structure of carbohydrate.
4. Give an account of Glycolysis.
5. Describe the biochemical changes that take place in muscle contraction and relaxation.
6. What are amino acids? Classify them.
7. What are the different kinds of vitamins? Mention their functions.
8. Give an account of B-oxidation of fatty acids.
9. Give an account of Lung ventilation in mammal.
10. Write notes on any **Two** of the following:

(a) ECG	(b) Nephron
(c) Pancreas	(d) Cardiac output



Programme of B.Sc. Part-III Zoology (Hons.)
 Annual Practical Counselling & Practical Examination - 2021
 Venue : 1st Floor Zoology Lab, Biscomaun Tower, Patna - 800 001
 (A) Practical Counselling Class

Date	Enrollment No.	Batch	Paper	Time
17.06.2022	All Old Students & 180510001 to 180510050	Z1	V, VI & VII	10:00 AM to 06:00 PM
18.06.2022	All Old Students & 180510001 to 180510050	Z1	VIII	10:00 AM to 12:30 PM
18.06.2022	180510051 to 180510200	Z2	V & VI	12:30 PM to 05:30 PM
20.06.2022	180510051 to 180510200	Z2	VII & VIII	10:00 AM to 03:00 PM

(B) Practical Examination

Date	Enrollment No.	Batch	Paper	Time	Paper	Time
21.06.2022	All Old students & 180510001 to 180510050	Z1	V	08:00 AM to 11:00 AM	VI	11.00 AM to 02.00 PM
22.06.2022	All Old students & 180510001 to 180510050	Z1	VII	08:00 AM to 11:00 AM	VIII	11.00 AM to 02.00 PM
23.06.2022	180510051 to 180510200	Z2	V	08:00 AM to 11:00 AM	VI	11.00 AM to 02.00 PM
24.06.2022	180510051 to 180510200	Z2	VII	08:00 AM to 11:00 AM	VIII	11.00 AM to 02.00 PM

Nalanda Open University

Annual Examination - 2021

B.Sc. Zoology (Honours), Part-III

Paper-VI

Time: 3.00 Hrs.

Full Marks: 80

Answer any five questions. Question No. 1 is compulsory. All questions carry equal marks.

1. Multiple choice questions. (Each question carries two marks)
 - (i) Mutation which alter the chemical structure of genes at molecular level is :
 - (a) Chromosomal mutation
 - (b) Reverse mutation
 - (c) Point mutation
 - (d) Lethal mutation
 - (ii) Male honey bee is :
 - (a) Triploid
 - (b) Haploid
 - (c) Tetraploid
 - (d) Diploid
 - (iii) Polyploide means occurrence of :
 - (a) Haploid set of chromosome
 - (b) Diploide set of chromosome
 - (c) More than two sets of chromosome
 - (d) None of the above.
 - (iv) Down's syndrome in human being is due to :
 - (a) Monosomy
 - (b) Trisomy
 - (c) Nullisomy
 - (d) Triploid
 - (v) The site of cholestrol synthesis is :
 - (a) Nucleus
 - (b) Golgi body
 - (c) Mitochondria
 - (d) Endoplasmic reticulum
 - (vi) Which of the following organ is vestigial organ in man :
 - (a) Spleen
 - (b) Coelia
 - (c) Islet of Langerhans
 - (d) Appendix
 - (vii) Enzyme are synthesized in the cell by :
 - (a) Mitochondria
 - (b) Lysosome
 - (c) Ribosome
 - (d) Golgi Complex
 - (viii) Ribosome was discovered by :
 - (a) Bovari
 - (b) Porter
 - (c) Palade
 - (d) Kollinker
2. Give an account of DNA replication.
3. Write an essay on mutation.
4. Describe ultra structure of mitochondria and discuss its functions.
5. Give an account of active transport.
6. Describe mendal's Law of inheritance.
7. Describe the role of endoplasmic reticulum in cell secretion.
8. Give an account of Fertilization.
9. Describe the structure and function of RNA.
10. Write notes on **any Two** of the following:
 - (a) Lethal mutation
 - (b) Genotype and Phenotype
 - (c) Kappa Particle
 - (d) Passive transport



Programme of B.Sc. Part-III Zoology (Hons.)

Annual Practical Counselling & Practical Examination - 2021

Venue : 1st Floor Zoology Lab, Biscomaun Tower, Patna - 800 001

(A) Practical Counselling Class

Date	Enrollment No.	Batch	Paper	Time
17.06.2022	All Old Students & 180510001 to 180510050	Z1	V, VI & VII	10:00 AM to 06:00 PM
18.06.2022	All Old Students & 180510001 to 180510050	Z1	VIII	10:00 AM to 12:30 PM
18.06.2022	180510051 to 180510200	Z2	V & VI	12:30 PM to 05:30 PM
20.06.2022	180510051 to 180510200	Z2	VII & VIII	10:00 AM to 03:00 PM

(B) Practical Examination

Date	Enrollment No.	Batch	Paper	Time	Paper	Time
21.06.2022	All Old students & 180510001 to 180510050	Z1	V	08:00 AM to 11:00 AM	VI	11.00 AM to 02.00 PM
22.06.2022	All Old students & 180510001 to 180510050	Z1	VII	08:00 AM to 11:00 AM	VIII	11.00 AM to 02.00 PM
23.06.2022	180510051 to 180510200	Z2	V	08:00 AM to 11:00 AM	VI	11.00 AM to 02.00 PM
24.06.2022	180510051 to 180510200	Z2	VII	08:00 AM to 11:00 AM	VIII	11.00 AM to 02.00 PM

Nalanda Open University

Annual Examination - 2021

B.Sc. Zoology (Honours), Part-III

Paper-VII

Time: 3.00 Hrs.

Full Marks: 80

Answer any five questions. Question No. 1 is compulsory. All questions carry equal marks.

1. Multiple choice questions. (Each question carries Two marks)
 - (i) India falls under:
 - (a) Oriental region
 - (b) Ethiopian region
 - (c) Australian region
 - (d) Palartic region
 - (ii) Presence of six digit in hands is the result of:
 - (a) Somatic variation
 - (b) meristic variation
 - (c) Substantive variation
 - (d) None of these
 - (iii) The book "Origin of species was published in:
 - (a) 1859
 - (b) 1809
 - (c) 1858
 - (d) 1956
 - (iv) Overproduction of individual will lead to:
 - (a) Survival
 - (b) Increase in fitness
 - (c) Mutation
 - (d) Stuggle
 - (v) Human evolution originated in:
 - (a) China
 - (b) Africa
 - (c) Jawa
 - (d) France
 - (vi) Egg is fertilized but zygote is unviable due to:
 - (a) Genetic mortality
 - (b) Hybrid in viability
 - (c) Zygote mortality
 - (d) Hybrid sterility
 - (vii) Isolation of a segment of population may result in:
 - (a) Inbreeding
 - (b) Dominance
 - (c) Netbreeding
 - (d) Their extinction.
 - (viii) Modern horse appeared in:
 - (a) Eocene
 - (b) Mesocene
 - (c) Oligocene
 - (d) Policene
2. Describe the Australian region and its funna.
3. Give an account of theories of animal distribution.
4. Describe variation with suitable examples.
5. Discuss Darwin's theory of natural selection in detail.
6. Describe role of isolation in evolution and also discuss reproductive isolation.
7. Give an account of evolution of Man.
8. Discuss the general peculiarities of oceanic islands.
9. Write an essay on fossil history of horse.
10. Write notes on any **Two** of the following:
 - (a) Gorilla
 - (b) somatic variation.
 - (c) Independent assortment
 - (d) Mesozoic area



Programme of B.Sc. Part-III Zoology (Hons.)

Annual Practical Counselling & Practical Examination - 2021

Venue : 1st Floor Zoology Lab, Biscomaun Tower, Patna - 800 001

(A) Practical Counselling Class

Date	Enrollment No.	Batch	Paper	Time
17.06.2022	All Old Students & 180510001 to 180510050	Z1	V, VI & VII	10:00 AM to 06:00 PM
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20.06.2022	180510051 to 180510200	Z2	VII & VIII	10:00 AM to 03:00 PM

(B) Practical Examination

Date	Enrollment No.	Batch	Paper	Time	Paper	Time
21.06.2022	All Old students & 180510001 to 180510050	Z1	V	08:00 AM to 11:00 AM	VI	11.00 AM to 02.00 PM
22.06.2022	All Old students & 180510001 to 180510050	Z1	VII	08:00 AM to 11:00 AM	VIII	11.00 AM to 02.00 PM
23.06.2022	180510051 to 180510200	Z2	V	08:00 AM to 11:00 AM	VI	11.00 AM to 02.00 PM
24.06.2022	180510051 to 180510200	Z2	VII	08:00 AM to 11:00 AM	VIII	11.00 AM to 02.00 PM

Nalanda Open University
Annual Examination - 2021
B.Sc. Zoology (Honours), Part-III
Paper-VIII

Time: 3.00 Hrs.

Full Marks: 80

Answer any Five questions. All questions carry equal marks.

1. Describe the structure and functions of thyroid gland.
2. Give an account of endocrine functions of Pancreas.
3. Describe mean, mode and median with example.
4. Describe the merit and demerits of arithmetic mean.
5. Give an account of methods of fossil formation.
6. Describe the concept of Census.
7. Describe the role of biostatistics in biology.
8. Describe chi-square test.
9. Describe the different methods of sampling.
10. Write notes on any **two** of the following:
 - (a) Standard error
 - (b) Structure of testis
 - (c) Student-t-test
 - (d) Adrenal Cortex



Programme of B.Sc. Part-III Zoology (Hons.)
Annual Practical Counselling & Practical Examination - 2021
 Venue : 1st Floor Zoology Lab, Biscomaun Tower, Patna - 800 001
 (A) Practical Counselling Class

Date	Enrollment No.	Batch	Paper	Time
17.06.2022	All Old Students & 180510001 to 180510050	Z1	V, VI & VII	10:00 AM to 06:00 PM
18.06.2022	All Old Students & 180510001 to 180510050	Z1	VIII	10:00 AM to 12:30 PM
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(B) Practical Examination						
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24.06.2022	180510051 to 180510200	Z2	VII	08:00 AM to 11:00 AM	VIII	11.00 AM to 02.00 PM