

Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon

**Godhatma Shaikshanik Bahu-Uddeshiya Sanstha's
M. G. Tele Commerce, C and B. R Tele Science and K. Tele Management College, Thalner, Tal- Shirpur, Dist- Dhule.**

F. Y/S. Y/ T. Y. B. Sc December 2022 Examination

| Sr No | Date | Time | Class | Sem | Subject | Students | Jr. Super V | Name of Students |
|-------|----------|----------------|-------|-----|---|----------|-------------|--------------------------|
| 1 | 01-12-22 | 9:00 to 11:00 | FY | II | CH-201 Physical And Inorganic Chemistry | 1 | | Manoj |
| 2 | 01-12-22 | 3:00 to 5:00 | TY | VI | CH-601 Principal of Physical Chemistry-II | 3 | | Dinesh, Tulsidas, Yogesh |
| 3 | 02-12-22 | 12:00 to 2:00 | SY | IV | ZOO-401 Genetics | 1 | | Dinesh |
| 4 | 02-12-22 | 3:00 to 5:00 | TY | VI | CH-602 Chemistry of Inorganic Solids | 1 | | Dinesh |
| 5 | 03-12-22 | 3:00 to 5:00 | TY | VI | CH-603 Spectroscopic Methods of Structure Determination | 1 | | Dinesh |
| 6 | 05-12-22 | 3:00 to 5:00 | TY | VI | CH-604 Chemistry of Industrially Important Products | 1 | | Dinesh |
| 7 | 06-12-22 | 3:00 to 5:00 | TY | VI | CH-605 Analytical Techniques | 1 | | Dinesh |
| 8 | 07-12-22 | 12:00 to 2:00 | SY | IV | Marathi-232 Vinodi katha ani Vidnyanpar Lekhan | 1 | | Dinesh |
| 9 | 07-12-22 | 3:00 to 5:00 | TY | VI | CH-606 (A) Polymer Chemistry | 1 | | Dinesh |
| 10 | 09-12-22 | 12:00 to 2:00 | SY | IV | CH-402 Organic and Inorganic Chemistry | 1 | | Dinesh |
| 11 | 15-12-22 | 12:00 to 2:00 | SY | III | CS-301 Data Structure-I | 2 | | Mahesh, Chetana |
| 12 | 15-12-22 | 12:00 to 2:00 | SY | III | ZOO-301 Physiology | 11 | | |
| 13 | 16-12-22 | 09:00 to 11:00 | FY | I | Marathi-1A Lalit Lekhancha Abhyas | 18 | | |
| 14 | 16-12-22 | 12:00 to 2:00 | SY | III | BOT-301 Plant Anatomy | 9 | | |
| 15 | 17-12-22 | 09:00 to 11:00 | FY | I | CS-101 Essential of Computer Science | 2 | | Bhakti, Vishwajit |
| 16 | 17-12-22 | 3:00 to 5:00 | TY | V | CH-501 Principles of Physical Chemistry | 9 | | Dinesh |
| 17 | 19-12-22 | 09:00 to 11:00 | FY | I | MTH-101 Matrix Algebra - I | 2 | | Bhakti, Vishwajit |
| 18 | 19-12-22 | 12:00 to 2:00 | SY | III | CH-302 Organic and Inorganic Chemistry | 11 | | |
| 19 | 20-12-22 | 09:00 to 11:00 | FY | I | CH-101 Chemistry Paper-I | 16 | | |
| 20 | 20-12-22 | 12:00 to 2:00 | SY | III | BOT-302 Plant Physiology | 9 | | |
| 21 | 20-12-22 | 3:00 to 5:00 | TY | V | CH-502 Inorganic Chemistry | 9 | | Dinesh |
| 22 | 21-12-22 | 09:00 to 11:00 | FY | I | ZOO-101 Invertebrate Zoology | 16 | | |
| 23 | 21-12-22 | 12:00 to 2:00 | SY | III | MTH-302 (A) Group Theory | 2 | | Mahesh, Chetana |
| 24 | 22-12-22 | 09:00 to 11:00 | FY | I | PHY-101 Basic Mechanics | 18 | | |
| 25 | 22-12-22 | 3:00 to 5:00 | TY | V | CH-503 Organic Reaction Mechanism | 9 | | Dinesh |
| 26 | 23-12-22 | 09:00 to 11:00 | FY | I | BOT-101 Diversity of Lower Cryptogams | 16 | | |
| 27 | 23-12-22 | 12:00 to 2:00 | SY | III | CH-304 Basic Analytical Chemistry | 11 | | |
| 28 | 23-12-22 | 12:00 to 2:00 | SY | III | CS-304 Software and Hardware Intallation Skills | 2 | | Mahesh, Chetana |
| 29 | 24-12-22 | 09:00 to 11:00 | FY | I | MTH-102 Calculus of single variable | 2 | | Bhakti, Vishwajit |
| 30 | 24-12-22 | 12:00 to 2:00 | SY | III | CH-301 Physical And Inorganic Chemistry | 16 | | |
| 31 | 24-12-22 | 3:00 to 5:00 | TY | V | CH-504 Industrial Chemistry | 9 | | Dinesh |
| 32 | 26-12-22 | 09:00 to 11:00 | FY | I | ELE-102 Basics of Digital Electronics | 2 | | Bhakti, Vishwajit |
| 33 | 26-12-22 | 12:00 to 2:00 | SY | III | MAR - (Marathi) Vidnyan Katha ani nond lekhan | 13 | | |
| 34 | 27-12-22 | 09:00 to 11:00 | FY | I | CH-102 Chemistry Paper-II | 16 | | |
| 35 | 27-12-22 | 12:00 to 2:00 | SY | III | MTH-301 Calculus of Several Variables | 2 | | Bhakti, Vishwajit |
| 36 | 27-12-22 | 3:00 to 5:00 | TY | V | CH-505 Analytical Instrumentation | 9 | | Dinesh |
| 37 | 28-12-22 | 09:00 to 11:00 | FY | I | ZOO-102 Grasshopper the nonchordate | 16 | | |
| 38 | 28-12-22 | 12:00 to 2:00 | SY | III | PHY-302 (A) Electronics-I | 2 | | Mahesh, Chetana |
| 39 | 28-12-22 | 12:00 to 2:00 | SY | III | PHY-302 (B) Instrumentation | 2 | | Rinal, Shejal |
| 40 | 29-12-22 | 09:00 to 11:00 | FY | I | CS-102 Programming in C-I | 2 | | Bhakti, Vishwajit |
| 41 | 29-12-22 | 3:00 to 5:00 | TY | V | CH-506 (B) Green Chemistry | 9 | | Dinesh |
| 42 | 31-12-22 | 09:00 to 11:00 | FY | I | MTH-103 (B) Discrete Mathemetics | 2 | | Bhakti, Vishwajit |
| 43 | 31-12-22 | 12:00 to 2:00 | SY | III | PHY-301 Thermodynamics and Kinetic theory of gases | 4 | | |
| 44 | 02-01-23 | 09:00 to 11:00 | FY | I | BOT-102 Morphology of Angiosperms | 16 | | |
| 45 | 04-01-23 | 09:00 to 11:00 | FY | I | ELE-101 Circuit Components and network Analysis | 2 | | Bhakti, Vishwajit |
| 46 | 04-01-23 | 12:00 to 2:00 | SY | III | CS-302 Programming in C++-I | 2 | | Mahesh, Chetana |
| 47 | 04-01-23 | 12:00 to 2:00 | SY | III | ZOO-302 Biochemistry | 11 | | |
| 48 | 05-01-23 | 09:00 to 11:00 | FY | I | PHY-102 Dynamics and Properties of Matter | 18 | | |

M. G. Tele Commerce, C. and B. R. Tele Science, K. Tele Management College, Thalner**FY B Sc TIME TABLE - 2021-2022**

| Sr. No. | Time | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|----------------|-----------------------|---------------|----------------|------------------|-----------------|---------------|-----------------|
| 1 | 09:30 am To 10:10 am | CH (Y.H.V) | CH (Y.H.V) | CH (Y.H.V) | CH | CH | CH |
| 2 | 10:20 am To 11:00 am | BOT (N.R.P.) | BOT (N.R.P.) | BOT (N.R.P.) | BOT (N.R.P.) | BOT (N.R.P.) | BOT (N.R.P.) |
| 3 | 11:10 am To 11.50 am | PHY (K.S.P.) | PHY (K.S.P.) | PHY (K.S.P.) | PHY (K.S.P.) | PHY (K.S.P.) | - |
| 4 | 12:10pm To 12:50pm | ZOO (A.P.P) | ZOO (A.P.P) | ZOO (A.P.P) | ZOO (A.P.P) | ZOO (A.P.P) | ZOO (A.P.P) |
| 5 | 01:00 pm (Practicals) | BOT (N.R.P.) | ZOO (AP) | PHY (K.S.P.) | CH | - | - |

M. G. Tele Commerce, C. and B. R. Tele Science, K. Tele Management College, Thalner**SY B Sc TIME TABLE - 2021-2022**

| Sr. No. | Time | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|----------------|-----------------------|---------------|----------------|------------------|-----------------|---------------|-----------------|
| 1 | 09:30 am To 10:10 am | BOT (N.R.P.) | BOT (N.R.P.) | BOT (N.R.P.) | BOT (N.R.P.) | BOT (N.R.P.) | BOT (N.R.P.) |
| 2 | 10:20 am To 11:00 am | ZOO (A.P.P) | ZOO (A.P.P) | ZOO (A.P.P) | ZOO (A.P.P) | ZOO (A.P.P) | ZOO (A.P.P) |
| 3 | 11:10 am To 11.50 am | CH (Y.H.V) | CH (Y.H.V) | CH (Y.H.V) | CH (M.M.S.) | CH (M.M.S.) | CH (M.M.S.) |
| 4 | 12:10pm To 12:50pm | PHY (K.S.P.) | PHY (K.S.P.) | PHY (K.S.P.) | PHY (K.S.P.) | PHY (K.S.P.) | - |
| 5 | 01:00 pm (Practicals) | - | CH (Y.H.V) | BOT (Y.M.V.) | ZOO (AP) | PHY (K.S.P.) | - |

M. G. Tele Commerce, C. and B. R. Tele Science, K. Tele Management College, Thalner

TY B Sc TIME TABLE - 2021-2022

| Sr. No. | Time | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|----------------|-----------------------|---------------|----------------|------------------|-----------------|---------------|-----------------|
| 1 | 09:30 am To 10:10 am | CH (M.M.S.) | CH (M.M.S.) | CH (M.M.S.) | CH (Y.H.V) | CH (Y.H.V) | CH (Y.H.V) |
| 2 | 10:20 am To 11:00 am | CH | CH | CH | CH (Y.H.V) | CH (Y.H.V) | CH (Y.H.V) |
| 3 | 11:10 am To 11.50 am | CH | CH | CH | CH (Y.H.V) | CH (Y.H.V) | CH (Y.H.V) |
| 4 | 12:10pm To 12:50pm | CH (M.M.S.) | CH (M.M.S.) | CH (M.M.S.) | CH | CH | CH |
| 5 | 01:00 pm (Practicals) | CH (M.M.S.) | - | CH (Y.H.V) | - | CH | - |

M. G. Tele Commerce, C. & B. R. Tele Science and K. Tele Management College,

Thalner, Tal. Shirpur, Dist. Dhule

F. Y. B. Sc. Offline Internal Test – I Examination Time Table to be held in April 2022

| Date | Time | Subject | Students |
|------------|------------------------|-------------|----------|
| 18/04/2022 | 10:00 am to 11:00 am | CH-201 | 11 |
| | 11:00 am to 12:00 pm | CH-202 | 11 |
| | 12:00 pm to 01:00 pm | BOT-201 | 11 |
| | 01:00 am to 02:00 pm | BOT-202 | 11 |
| 19/04/2022 | 10:00 am to 11:00 am | ZOO-201 | 11 |
| | 11:00 am to 12:00 pm | ZOO-202 | 11 |
| | 12:00 pm to 01:00 pm | PHY-201 | 15 |
| | 01:00 am to 02:00 pm | PHY-202 | 15 |
| 20/04/2022 | 10:00 am to 11:00 am | ELE-201 | 04 |
| | 11:00 am to 12:00 pm | ELE-202 | 04 |
| | 12:00 pm to 01:00 pm | CS-201 | 04 |
| | 01:00 am to 02:00 pm | CS-202 | 04 |
| 21/04/2022 | 10:00 am to 11:00 am | MTH-201 | 04 |
| | 11:00 am to 12:00 pm | MTH-202 | 04 |
| | 12:00 noon to 01:00 pm | Environment | 15 |

Important Notes:

- 1) All the students should note that there will be no repetition of internal Exam.
- 2) All are expected to attend offline exam. as per above time table.
- 3) No online exam for this semester.
- 4) As per Univ. circular, the exam. will not an objective but descriptive exam only.
- 5) The syllabus for the internal test Exam. will be communicated to you by the respective teacher / informed through students whatsapp group.



PRINCIPAL
M.G.Tele Com.,C. & B.R.Tele Sci.,
and K.Tele Management College,
Thalner Tal. Shirpur,Dist.Dhule.

M.G. Tele Commerce, C and B, R Tele Science and K. Tele Management College, Thalner, Tal-Shirpur, Dist- Dhule.

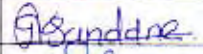


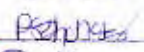
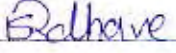



I - Internal Exam attendance 2021-22 MAY 2022

Date:

Class: 3-Y. BSC

Subject: Zoology (200402)

Sem: IV

| Sr. No | Name of student | PRN | Sign of Student |
|--------|-------------------------------|------------------|---|
| 1) | Gaurav Kailas Saundane | 2020015400039366 |  |
| 2) | Shinde Prathmesh Mahes | 2018015400196216 |  |
| 3) | veeles Dilak Patil | 2020015400046497 |  |
| 4) | Dhangers Rameshwarra samadhan | 2019015400122552 |  |
| 5) | Adhave Swapnali Raju | 2012015400189701 |  |
| 6) | shirsath Mayuri Anjaneshwarra | 2020015400039364 |  |
| 7) | shimpi Seema Gulab | 2020015400039331 |  |
| 8) | Vaishnavi Tijabrao Patil | 2020015400222281 |  |
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Name of Supervisor: N. R. Pawara.

Signature:



M.G. Tele Commerce, C and B. R Tele Science and K. Tele Management College, Thalner, Tal-Shirpur, Dist- Dhule.

I - Internal Exam attendance 2021-22 May 2022

Date:

Class: B.Y. BSC

Subject: Zoology (200401)

Sem: IV

| Sr. No | Name of student | PRN | Sign of Student |
|--------|-----------------------------|------------------|-----------------|
| 1) | Shimpi Seema Gulab | 2020015400039331 | |
| 2) | Shirsath Mayuri Dnyaneshwar | 2020015400039364 | |
| 3) | Dhangar Rameshwar Samadhan | 2019015400129552 | |
| 4) | Adhave Swapnali Raju | 2012015400189701 | |
| 5) | Shinde Prathamesh Mahesh | 2018015400196216 | |
| 6) | Saindane Gaurav Karles | 2020015400039346 | |
| 7) | Patil Neelish Dipak | 2020015400046497 | |
| 8) | Vaishnavi Tijabrao Patil | 2020015400221281 | |
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Name of Supervisor: N. R. Pawar.

Signature:

Name:- Shinde Prathamesh Mahesh.

Class:- BSc [Chem.] Sub: Botany. (Bot.)

PRN. No:- 2018015400196216.



Que. 2. Answer the following.

① Define Embryology

→ Plant Embryology deals with the Sexual Cycle of Plant.

② Types of Ovules.

→ There are 6 Types of Ovules.

i) Orthotropous iv) Campylotropous.

ii) Anatropous v) Hemitri

iii) Amphitropous vi) Circinotropous.

③ Name of the types of Embryo sacs?
with example.

→ There are 3 types of Embryo sacs.

① Monospermic [Polygonum]

② Bispermic [Allium]

③ Tetraspermic [Peperomia].

④ Define Anemophily.

→ It is a mode of cross pollination of transfer of pollen grains from a mature anther to the stigma of a pistil which is accomplished through the agency of wind.

Q. 1.

① what is tapetum?

→ It is the inner most layer of anther

2) Name the layers of typical anther wall

→ (i) Epidermis →

(ii) During anther Development the epidermal cells undergo repeated anticlinal divisions in order to cope up with rapidly enlarging internal tissue.

(iii) Endothecium →

Normally the endothecium is single layered but in some plants it may become multilayered.

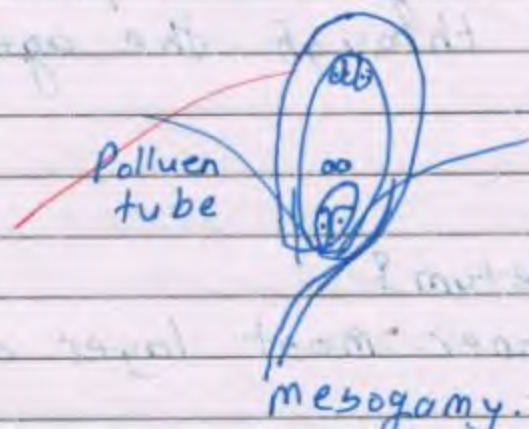
(iv) Middle layers →

These are generally ephemeral cells and as a rule become flattened & crushed during meiosis in the pollen mother cells.

3) Explain the Process of Fertilization.

→ During fertilization the pollen grains germinate on the stigma by pollen tubes which grow through the style and find their way in to ovules where they discharge the sperms in vicinity of egg.

4) Describe mesogamy with diagram.



Que. 3:

- ① Explain the structure of typical ovule.
- ① Orthotropous → In this type of ovule is erect or straight so that the funicle, chalaza and micropyle lie in on the same vertical line, as in members of Polygonaceae & Piperaceae.
- ② Anotropous → In this type the ovule bends along the funicle so that the micropyle lies close to the hilum.
- ③ Amphitropous → In this type the ovule is placed transversely at a right angle to its stalk or funicle, as found in Lemna.
- ④ Hemitropous → In this type the body of the ovule is straight but twisted in such a way that it is placed transversely at right angle, so the line is at right angle.
- ⑤ Campylotropous → In this type the transverse ovule is bent round like a horse-shoe so the micropyle & the chalaza do not lie in the same straight line.
- ⑥ Circinotropous → In this type the nucellus & the axis remain in the same line in the beginning, but due

②

→ The transfer of pollen grains from anther to the stigma is called pollination. They have 2 types.

① Self Pollination & ② Cross Pollination

① Self Pollination → They have also 2 types

① Autogamy → It is type of self poll? in which intersexual or perfect flower is pollinated by its own pollen. They Occure by 3 method.

① Homogamy ② Cleistogamy ③ Bud pollination.

② Geitonogamy → It is a type of poll? in which pollen grains of one flower are transferred to the stigma of other flower belonging to either the same plant

② Cross Pollination → It is the transfer of pollen grains from the anther of one flower to the stigma of a genetic-diff? flower. It is also called allogamy or Xenogamy.

19
20



Name → Vaishnavi Tijabao Patil.

SYBSc.

Sub → Bot - 401

Date → 18/04/22.

Q-1. Answer the following questions.

1) → Fertilisation occurs when a sperm fuses with the female act during intercourse and further forms an egg that gets implanted in uterus of the female.

2

3) → Porogamy is the phenomenon of the entry of pollen tube into the ovule through micropyle. Chalazogamy is the phenomenon of entry.

2

4) → Any of various reflective membranous layer of areas especially of choroid & retina of the eye.

2

5) → The anther wall contains four layers called the epidermis, endothecium, middle layer & tapetum.

2

Q-2] Answer the following question.

style \rightarrow It is a long, slender tubular structure which ~~contain~~ connect the stigma to the ovary

iii) Ovary \rightarrow It is the enclosed basal part of the gynoecium.

3) \rightarrow Types of embryo sac

1) Monosporic \rightarrow Meiosis in the diploid megaspore mother cell divides it into 4 haploid. With the degeneration of three, this is known as monosporic sac.

2) Bisporic

Bisporic embryo sacs contain nuclei derived from two members of a megaspore tetrad.

3) Tetrasporic \rightarrow

Tetrasporic embryo sacs contain nuclei derived from all four members of a tetrad.

4) \rightarrow Embryology

Embryology is the branch of biology that studies the prenatal development of gametes, fertilization and development of embryos and fuses.

Embryology encompasses the study of congenital disorders that occur before birth, known as teratology.

5) \rightarrow Anemophily

Anemophily or wind pollination is form of pollination, pollen is transported by wind.

Many of the world's most important crop plants are wind pollinated. These includes wheat, rice, corn, etc. Many economically imp

1) → The integument forming its outer layer the nucleus or remnant of the megasporangium and the female gametophyte formed from a haploid megaspore in its centre.

a) Orthotropous or straight :- In this type the ovule is erect or straight so that the funicle, chalaza and micropyle lie in one and the same vertical line as in members of polygonaceae.

(3) b) Anatropous :- In this type the ovule bends along the funicle so that the micropyle lies close to the hilum. The chalaza lies at other end.

c) Amphitropous :- In this type the ovule is placed transversely at a right angle to its

d) Hemitropous :- In this type the body of the ovule is straight but twisted in such way that it is placed transversely at right angle.

e) Campylotropous :- In this type the transverse ovule is bent round like horse shoe so that the micropyle and the chalazae do not lie the same straight line.

2) → Pollination

A) Self pollination → It is the transference of the pollen grains from the anther of a flower to the stigma of either the same or genetically similar flower.

i) Autogamy (Gk autos-self, gamos-marriage)

It is type of self pollination in which an intersexual or perfect flower is pollinated.

~~I) Geitonogamy (Gk geiton-neighbour).~~

It is type of pollination in which pollen grains of one flower are transferred to the stigma of another flower.

~~B) Cross pollination~~

Cross pollination is the transfer of pollen grains from the anther of one flower to the stigma of genetically different flower.

④

~~I) Anemophily → It is mode of cross pollination or transfer of pollen grains from a mature anther to the stigma of pistil which is accomplished through agency.~~

~~II) Hydrophily → It is mode of pollination or transfer of pollen grains from the mature anther of flower to the stigma of another flower which is accomplished through agency of water.~~



Mahajan Hitesh A.
F.Y. Bsc
Sub - Zoo (201)
Date - 18/01/2020

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04

Q.1 MCQ.

- ① Unicellular glands secrete a protein mucin.
- ② Sebaceous gland secretion, called sebum.
- ③ The first arch is known as mandibular arch.
- ④ Branchial arch support gills.
- ⑤ The pancreas ^{Liver} is the largest lobed glands in the body.
- ⑥ Which of the following lies behind the ~~mouth~~ mouth cavity.
→ pharynx.

Q.2

② Structure of pharyngeal arches -
In vertebrates, the pharyngeal arches are derived from all these

03



and Facial skeleton such a bone & cartilage. However, the existence of pharyngeal structure before neural crest called cells involved indicated by existence of neural crest - independent mechanisms of pharyngeal arch development.

④ Digestive system of mammals -

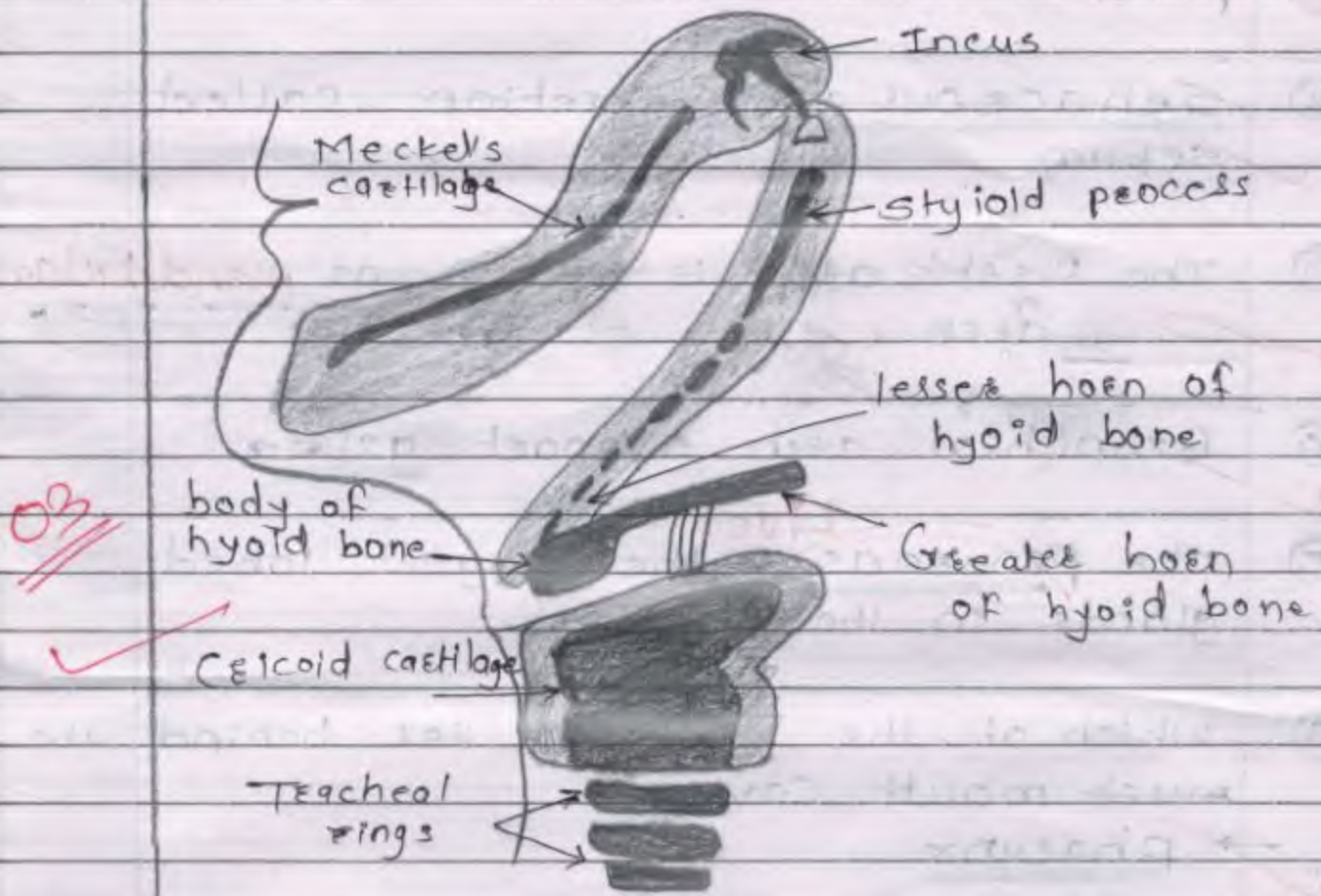


Fig - Digestive system of mammals.

⑤ Describe the pancreas & liver of vertebrates -

Liver - The liver is the largest lobed gland in the body, suspended by a double layer of peritoneum from the transverse septum or its representative.

A gall bladder is for storage of bile secreted by hepatic cells. A gall bladder is not indispensable and is lacking in many birds and mammals.

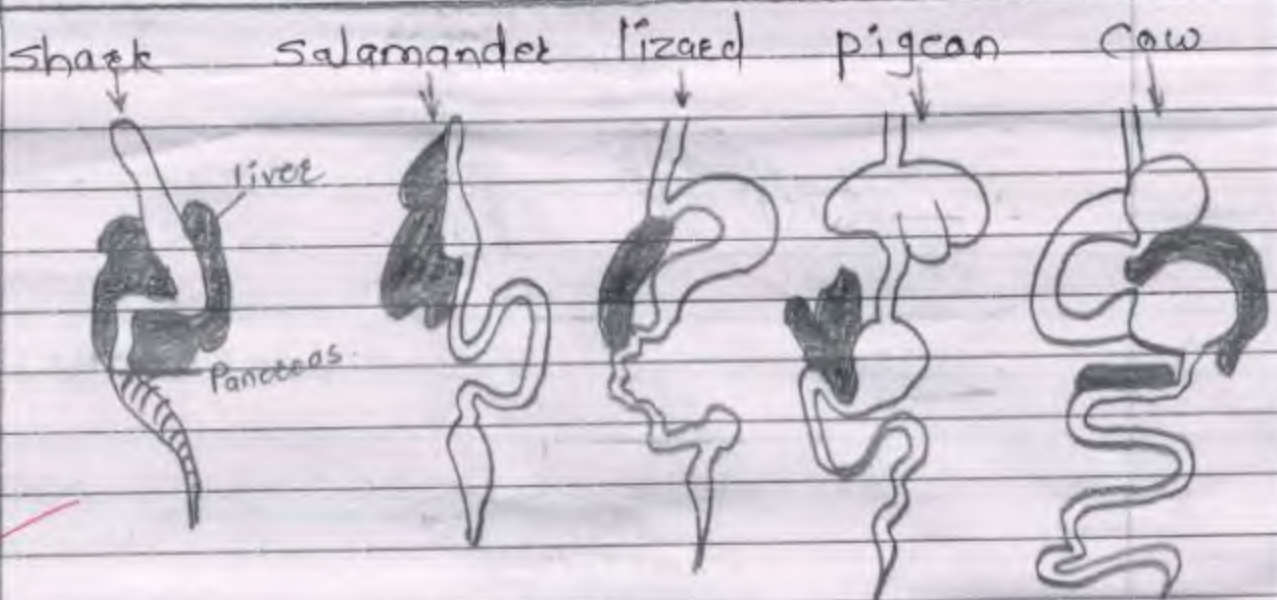


Fig - Liver and pancreas of vertebrates.

Pancreas - The pancreas is both an exocrine and endocrine gland, bound together by delicate strands of connective tissue, the exocrine part secretes digestive enzymes which are used in the duodenum through

Internal Test - I

16
20



Name :- Priyanka Sunil Patil

Sub :- Chem - 401

Date :- 06/03/2023

Class :- S.Y.Bsc.

Q.1 Attempt any five of the following question (10)

i) What is Weston standard cell?

→ There should be not be permanent damage of the cell due to passage of current through it. Weston cell satisfies all these conditions therefore, it is referred as "Weston standard cell".

ii) What is reference electrode?

→ iii) Helmholtz suggested that when some work obtained in system then out of the total internal energy change some part may be available to do work & some part may be unavailable to do work.

ii) What is reference electrode?

→ It is a primary reference electrode whose potential is arbitrarily taken as zero at all temperature. Hydrogen electrode is reversible to the hydrogen ions in the solⁿ.

v) What is standardisation of potentiometer?

→ Standard electrode & emf of cell is used for obtaining equilibrium constant (K_a).
The standard free energy change for electrochemical process is given by.

$$\Delta G^\circ = -nFE^\circ$$

Where, E° is standard emf.

vi) What is secondary reference electrode?

Secondary reference electrode have been widely used. The secondary reference electrode is the electrode for which potential is measured on the hydrogen electrode scale & it can be used to measure the potentials of other electrodes.

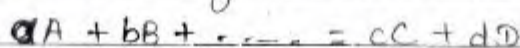
iv) Define emf of a cell

The maximum electromotive force of a cell or EMF of a cell is the maximum potential difference between two electrodes of a cell.

Q. 2. Answer the following questions (10)

1) Explain Nernst equation?

The equation gives the relation between electrode potentials & cell emf as a function of initial and final activities of substances involved in cell reactions consider any reaction such as,



The change in free energy ΔG , as a function of initial activities of reactants & final activities of products, is given as,

$$\Delta G = \Delta G^\circ + RT \ln \left(\frac{a_C^c \times a_D^d \dots}{a_A^a \times a_B^b \dots} \right)$$

Where ΔG° is standard free energy change, T is absolute temperature $^\circ K$ & R is molar gas constant.

a_c, a_d, \dots are activities of products,
 a_A, a_B, \dots are activities of reactants
 also we know $\Delta G = -nFE$

$\&$ $\Delta G^\circ = -nFE^\circ$

Where symbols have their usual meanings
 Substituting for ΔG and ΔG° in equation
 1.22, we get

$$-nFE = nFE^\circ + RT \ln \left(\frac{a_c \times a_d \dots}{a_A \times a_B \dots} \right)$$

dividing through out by $-nF$

$$E = E^\circ - \frac{RT}{nF} \ln \left(\frac{a_c \times a_d \dots}{a_A \times a_B \dots} \right) \quad (\ln x = 2.303 \log x)$$

$$E = E^\circ - \frac{2.303RT}{nF} \log_{10} \left(\frac{a_c \times a_d \dots}{a_A \times a_B \dots} \right)$$

Equation (1.23) gives the potential of any
 electrode or cell as a function of initial
 & final activities.

When activities of reactants & products
 are unity, then the the emf of the
 cell of electrode is equal to its standard
 potential.

A $E = E^\circ$

At 25°C , $T = 25 + 273 = 298\text{K}$

$R = 8.314$ Joules

$F = 96500$ coloumb

then $\frac{2.303RT}{F} = \frac{2.303 \times 8.314 \times 298}{96500} = 0.0591$

Therefore eqⁿ (1.24) becoms,

$$E = E^\circ - \frac{0.0591}{n} \log_{10} \left(\frac{a_c \times a_d \dots}{a_A \times a_B \dots} \right)$$

eqⁿ (1.24) & (1.25) are also known
 as Nernst eqⁿ for the emf of the
 electrode or cell.

→ 2) Explain Gibbs Free energy change.?

→ The most of the chemical reaction are carried out at constant pressure than at constant volume. Helmholtz Free energy corresponds to constant volume is inadequate to explain the process at constant pressure.

✓ Gibbs suggested that the energy available to do work according to Helmholtz free energy is many not be completely converted into maximum work even through this

16

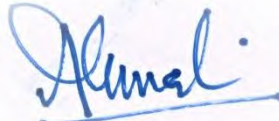
Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon
M. G. Tele Commerce, C. & B. R. Tele Science and K. Tele Management College,
Thalner, Tal. Shirpur, Dist. Dhule

F. Y. B. Sc. Offline External Practical Examination Time Table to be held in December 2022

| Date | Time | Subject | Students |
|------------|--------------------|-------------------|----------|
| 05-12-2022 | 10:00am To 01:00pm | Physics – 103 | 18 |
| 06-12-2022 | 10:00am To 01:00pm | Electronics – 103 | 02 |
| 07-12-2022 | 10:00am To 01:00pm | Botany – 103 | 16 |
| 08-12-2022 | 10:00am To 01:00pm | Zoology – 103 | 16 |
| 09-12-2022 | 10:00am To 01:00pm | Computer – 103 | 02 |
| | | Chemistry – 103 | 16 |

Important Notes:

- 1) All the students should note that there will be no repetition of external practical Exam.
- 2) All are expected to attend **offline exam**. as per above time table.
- 3) No online exam for this semester.
- 4) As per University circular, the **exam. will not an objective but descriptive exam only.**
- 5) The syllabus for the external practical Exam. will be communicated to you by the respective teacher / informed through students whatsapp group.


Dr. A. E. Mali
Principal



Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon

Jalgaon-425001, Maharashtra(India)

<http://nmuj.digitaluniversity.ac/>



Examination Hall Ticket

B.Sc.(with Credits) for December-2022 Examination

College: M. G. Tele Commerce, C. and B. R. Tele Science, K Tele Management College (240120)

ADHAVE

Name of Student: **ADHAVE SWAPNALI RAJU (SUNANDA)** Vernacular Name:

PRN: 2012015400189701 Gender: **Female** Phy. Challenged: **No** Medium: **English**

Sem-V(Regular-under CBCS [June-2019] Pattern) Division : 1,RollNo : 04

Seat Number : **338805** Exam Center: **Thalner (2425)**

Exam Venue: **240120** M. G. Tele Commerce, C. and B. R. Tele Science, K Tele Management College, At Po Thalner, City:Thalner, Taluka:Shirpur, District:Dhule, State:Maharashtra, Pin:425405

| SN | Paper Code | Paper Name (UA - University Assessment,CA - College Assessment) | Date | Time | Jr. Supervisor's Sign . |
|----|------------|--|-----------|------|-------------------------|
| 1 | 851301 | CH-501 Principles of Physical Chemistry-I | Theory | UA | |
| 2 | 851302 | CH-502 Inorganic Chemistry | Theory | UA | |
| 3 | 851303 | CH-503 Organic Reaction Mechanism | Theory | UA | |
| 4 | 851304 | CH-504 Industrial Chemistry | Theory | UA | |
| 5 | 851305 | CH-505 Analytical Instrumentation | Theory | UA | |
| 6 | 851362 | CH-506(B) Green Chemistry | Theory | UA | |
| 7 | 851362 | CH-506(B) Green Chemistry | Theory | CA | |
| 8 | 851305 | CH-505 Analytical Instrumentation | Theory | CA | |
| 9 | 851307 | CH-507 Practical Course based on Physical Chemistry | Practical | CA | |
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| 13 | 851303 | CH-503 Organic Reaction Mechanism | Theory | CA | |
| 14 | 851302 | CH-502 Inorganic Chemistry | Theory | CA | |
| 15 | 851301 | CH-501 Principles of Physical Chemistry-I | Theory | CA | |
| 16 | 85001 | AC-501(A) NSS | Practical | CA | |

Note for Repeater Student -As per Circular No- 36/2022 dated 03-10-2022, Point No. 37 (II), Repeater Student have to appear equivalence paper for which exam attempt chance is over for above mentioned each subject.



Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon

Jalgaon-425001, Maharashtra(India)

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Examination Hall Ticket

B.Sc.(with Credits) for December-2022 Examination

College: M. G. Tele Commerce, C. and B. R. Tele Science, K Tele Management College (240120)

Peshangar

Name of Student: **DHANGAR RAMESHWARI SAMADHAN (SUREKHA)** Vernacular Name: **धनगर रामेश्वरी समाधान**

PRN: 2019015400123552 Gender: **Female** Phy. Challenged: **No** Medium: **English**

Sem-V(Regular-under CBCS [June-2019] Pattern) Division : 1, RollNo : 02

Seat Number : **338806** Exam Center: **Thalner (2425)**

Exam Venue: **240120** M. G. Tele Commerce, C. and B. R. Tele Science, K Tele Management College, At Po Thalner, City:Thalner, Taluka:Shirpur, District:Dhule, State:Maharashtra, Pin:425405

| SN | Paper Code | Paper Name (UA - University Assessment, CA - College Assessment) | Date | Time | Jr. Supervisor's Sign . |
|----|------------|---|-----------|------|-------------------------|
| 1 | 851301 | CH-501 Principles of Physical Chemistry-I | Theory | UA | |
| 2 | 851302 | CH-502 Inorganic Chemistry | Theory | UA | |
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| 4 | 851303 | CH-503 Organic Reaction Mechanism | Theory | UA | |
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| 15 | 85001 | AC-501(A) NSS | Practical | CA | |
| 16 | 851301 | CH-501 Principles of Physical Chemistry-I | Theory | CA | |

Note for Repeater Student -As per Circular No- 36/2022 dated 03-10-2022, Point No. 37 (II), Repeater Student have to appear equivalence paper for which exam attempt chance is over for above mentioned each subject.



Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon

Jalgaon-425001, Maharashtra(India)

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Examination Hall Ticket

B.Sc.(with Credits) for December-2022 Examination

College: M. G. Tele Commerce, C. and B. R. Tele Science, K Tele Management College (240120)

Name of Student: **PATIL NEELESH DIPAK (REKHA)**

Vernacular Name: **पाटील निलेश दिपक**

PRN: 2020015400046497

Gender: **Male**

Phy. Challenged: **No**

Medium: **English**

Sem-V(Regular-under CBCS [June-2019] Pattern)

Division : 1, RollNo : 05

Seat Number : **338807**

Exam Center: **Thalner (2425)**

Exam Venue: **240120** M. G. Tele Commerce, C. and B. R. Tele Science, K Tele Management College, At Po Thalner, City:Thalner, Taluka:Shirpur, District:Dhule, State:Maharashtra, Pin:425405

| SN | Paper Code | Paper Name (UA - University Assessment, CA - College Assessment) | Date | Time | Jr. Supervisor's Sign . |
|----|------------|---|-----------|------|-------------------------|
| 1 | 851301 | CH-501 Principles of Physical Chemistry-I | Theory | UA | |
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Note for Repeater Student -As per Circular No- 36/2022 dated 03-10-2022, Point No. 37 (II), Repeater Student have to appear equivalence paper for which exam attempt chance is over for above mentioned each subject.



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Examination Hall Ticket

B.Sc.(with Credits) for December-2022 Examination

College: M. G. Tele Commerce, C. and B. R. Tele Science, K Tele Management College (240120)

Patil

Name of Student: **PATIL VAISHNAVI JIJABRAO (BHATUBAI)**

Vernacular Name: **पाटील वैष्णवी जिजाबराव**

PRN: 2020015400222281

Gender: **Female**

Phy. Challenged: **No**

Medium: **English**

Sem-V(Regular-under CBCS [June-2019] Pattern)

Division : 1, RollNo : 07

Seat Number : **338808**

Exam Center: **Thalner (2425)**

Exam Venue: **240120** M. G. Tele Commerce, C. and B. R. Tele Science, K Tele Management College, At Po Thalner, City:Thalner, Taluka:Shirpur, District:Dhule, State:Maharashtra, Pin:425405

| SN | Paper Code | Paper Name (UA - University Assessment, CA - College Assessment) | Date | Time | Jr. Supervisor's Sign . |
|----|------------|---|-----------|------|-------------------------|
| 1 | 851301 | CH-501 Principles of Physical Chemistry-I | Theory | UA | |
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| 15 | 851301 | CH-501 Principles of Physical Chemistry-I | Theory | CA | |
| 16 | 85001 | AC-501(A) NSS | Practical | CA | |

Note for Repeater Student -As per Circular No- 36/2022 dated 03-10-2022, Point No. 37 (II), Repeater Student have to appear equivalence paper for which exam attempt chance is over for above mentioned each subject.



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Saundane

Examination Hall Ticket

B.Sc.(with Credits) for December-2022 Examination

College: M. G. Tele Commerce, C. and B. R. Tele Science, K Tele Management College (240120)

Name of Student: SAINDANE GAURAV KAILAS (REKHA)

Vernacular Name: सैदाने गौरव कैलास

PRN: 2020015400039346

Gender: Male

Phy. Challenged: No

Medium: English

Sem-V(Regular-under CBCS [June-2019] Pattern)

Division : 1, RollNo : 03

Seat Number : 338809

Exam Center: Thalner (2425)

Exam Venue: 240120 M. G. Tele Commerce, C. and B. R. Tele Science, K Tele Management College, At Po Thalner, City:Thalner, Taluka:Shirpur, District:Dhule, State:Maharashtra, Pin:425405

| SN | Paper Code | Paper Name (UA - University Assessment, CA - College Assessment) | Date | Time | Jr. Supervisor's Sign . |
|----|------------|---|-----------|------|-------------------------|
| 1 | 851301 | CH-501 Principles of Physical Chemistry-I | Theory | UA | |
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| 16 | 85001 | AC-501(A) NSS | Practical | CA | |

Note for Repeater Student -As per Circular No- 36/2022 dated 03-10-2022, Point No. 37 (II), Repeater Student have to appear equivalence paper for which exam attempt chance is over for above mentioned each subject.



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Jalgaon-425001, Maharashtra(India)

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Simpi

Examination Hall Ticket

B.Sc.(with Credits) for December-2022 Examination

College: M. G. Tele Commerce, C. and B. R. Tele Science, K Tele Management College (240120)

Name of Student: **SHIMPI SEEMA GULAB (RATNA)**

Vernacular Name: **शिंपी सीमा गुलाब**

PRN: 2020015400039331

Gender: **Female**

Phy. Challenged: **No**

Medium: **English**

Sem-V(Regular-under CBCS [June-2019] Pattern)

Division : 1, RollNo : 01

Seat Number : **338810**

Exam Center: **Thalner (2425)**

Exam Venue: **240120** M. G. Tele Commerce, C. and B. R. Tele Science, K Tele Management College, At Po Thalner, City:Thalner, Taluka:Shirpur, District:Dhule, State:Maharashtra, Pin:425405

| SN | Paper Code | Paper Name (UA - University Assessment, CA - College Assessment) | Date | Time | Jr. Supervisor's Sign . |
|----|------------|---|-----------|------|-------------------------|
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| 15 | 851301 | CH-501 Principles of Physical Chemistry-I | Theory | CA | |
| 16 | 85001 | AC-501(A) NSS | Practical | CA | |

Note for Repeater Student -As per Circular No- 36/2022 dated 03-10-2022, Point No. 37 (II), Repeater Student have to appear equivalence paper for which exam attempt chance is over for above mentioned each subject.



Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon

Jalgaon-425001, Maharashtra(India)

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Examination Hall Ticket

B.Sc.(with Credits) for December-2022 Examination

College: M. G. Tele Commerce, C. and B. R. Tele Science, K Tele Management College (240120)

Signature

Name of Student: **SHINDE PRATHAMESH MAHESH (VANDANA)**

Vernacular Name: **शिंदे चंद्रशेखर महेश**

PRN: 2018015400196216

Gender: **Male**

Phy. Challenged: **No**

Medium: **English**

Sem-V(Regular-under CBCS [June-2019] Pattern)

Division : 1, RollNo : 08

Seat Number : **338811**

Exam Center: **Thalner (2425)**

Exam Venue: **240120** M. G. Tele Commerce, C. and B. R. Tele Science, K Tele Management College, At Po Thalner, City:Thalner, Taluka:Shirpur, District:Dhule, State:Maharashtra, Pin:425405

| SN | Paper Code | Paper Name (UA - University Assessment, CA - College Assessment) | Date | Time | Jr. Supervisor's Sign . |
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| 13 | 851304 | CH-504 Industrial Chemistry | Theory | CA | |
| 14 | 85001 | AC-501(A) NSS | Practical | CA | |
| 15 | 851302 | CH-502 Inorganic Chemistry | Theory | CA | |
| 16 | 851301 | CH-501 Principles of Physical Chemistry-I | Theory | CA | |

Note for Repeater Student -As per Circular No- 36/2022 dated 03-10-2022, Point No. 37 (II), Repeater Student have to appear equivalence paper for which exam attempt chance is over for above mentioned each subject.



Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon

Jalgaon-425001, Maharashtra(India)

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Examination Hall Ticket

B.Sc.(with Credits) for December-2022 Examination

College: M. G. Tele Commerce, C. and B. R. Tele Science, K Tele Management College (240120)

PCB

Name of Student: **SHIRSATH MAYURI DYANESHWAR (SANGITA)**

Vernacular Name: **शिरसाठ मयुरी जानेश्वर**

PRN: 2020015400039362

Gender: **Female**

Phy. Challenged: **No**

Medium: **English**

Sem-V(Regular-under CBCS [June-2019] Pattern)

Division : 1, RollNo : 06

Seat Number : **338812**

Exam Center: **Thalner (2425)**

Exam Venue: **240120** M. G. Tele Commerce, C. and B. R. Tele Science, K Tele Management College, At Po Thalner, City:Thalner, Taluka:Shirpur, District:Dhule, State:Maharashtra, Pin:425405

| SN | Paper Code | Paper Name (UA - University Assessment, CA - College Assessment) | Date | Time | Jr. Supervisor's Sign . |
|----|------------|---|-----------|------|-------------------------|
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| 15 | 851301 | CH-501 Principles of Physical Chemistry-I | Theory | CA | |
| 16 | 85001 | AC-501(A) NSS | Practical | CA | |

Note for Repeater Student -As per Circular No- 36/2022 dated 03-10-2022, Point No. 37 (II), Repeater Student have to appear equivalence paper for which exam attempt chance is over for above mentioned each subject.

| Paper Assessment Report | | | |
|---|-------------|-------------------------------------|---------------------|
| Duration: 2014-15 to 2019-20 | | | |
| M. G. Tele Commerce, C. & B. R. Tele Science and K. Tele Management College Thalner | | | |
| Cap Centre: R. C. Patel ACS College, Shirpur | | | |
| Sr. No. | Examination | Total No. of Answer- Books Assessed | Total Amount@ Rs.08 |
| 1 | Oct-14 | 401 | 3208 |
| 2 | Mar-15 | 425 | 3400 |
| 3 | Oct-15 | 487 | 3896 |
| 4 | Mar-16 | 508 | 4064 |
| 5 | Oct-16 | 541 | 4328 |
| 6 | Mar-17 | 563 | 4504 |
| 7 | Oct-17 | 298 | 2384 |
| 8 | Mar-18 | 231 | 1848 |
| 9 | Oct-18 | 236 | 1888 |
| 10 | Mar-19 | 262 | 2096 |
| 11 | Oct-19 | 203 | 1624 |
| Total | | 4155 | 33240 |


Dr. N. O. Girase
PRINCIPAL
 M.G. Tele Com., C & B.R. Tele Science
 And K. Tele Management College,
 Thalner, Tal. Shirpur, Dist. Dahanu

Bank : state Bank of India

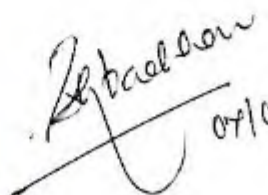
Branch : shirpur

cheque No : 893642

Amt. Rs : 33240 /-

Thirty three thousand Two hundred
 forty only.




 09/01/2020

Paper Assessment Report

Duration: 2014-15 to 2018-19

College: M.G. Tele College Thalner.

CAP Centre: R. C. Patel A C S College, Shirpur.

| Sr. No. | Exam | Total No. of Answer-Books assessed | Amount @Rs.12 | Remark |
|---------|----------|------------------------------------|---------------|--------|
| 1 | Oct-14 | 401 | 4812/- | |
| 2 | March-15 | 425 | 5100/- | |
| 3 | Oct-15 | 487 | 5844/- | |
| 4 | March-16 | 508 | 6096/- | |
| 5 | Oct-16 | 541 | 6492/- | |
| 6 | March-17 | 563 | 6756/- | |
| 7 | Oct-17 | 298 | 3576/- | |
| 8 | March-18 | 231 | 2772/- | |
| 9 | Oct-18 | 236 | 2832/- | |
| 10 | March-19 | 262 | 3144/- | |
| Total | | 3952 | Rs.47424/- | |

Amt. In words: Rs. Fourty-seven thousand four-hundred twenty four only



PRINCIPAL

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(Dr. S. G. Bachhav)

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एम. जी. तेले. वाणिज्य, सी. आणि बी. आर. तेले विज्ञान आणि के. तेले व्यवस्थापन
महाविद्यालय, थाळनेर, ता- शिरपूर, जि. धुळे

उत्तरपत्रिका तपशिल नमुना

| अ क्र. | परीक्षा वर्ष | उत्तर पत्रिकांचा प्रकार | विद्यापीठाकडून प्राप्त झालेल्या उत्तरपत्रिका (छपाई क्रमांकानुसार) | | एकुण संख्या | वापरलेल्या उत्तरपत्रिका (छपाई क्रमांकानुसार) | | एकुण वापरलेल्या उत्तरपत्रिका ची संख्या | शिल्लक उत्तरपत्रिका (छपाई क्रमांकानुसार) | | एकुण शिल्लक उत्तरपत्रिका (४-३) |
|-----------|--------------|-------------------------------|---|-------------|----------------|---|-------------|---|---|-------------|---|
| | | | ३ | ४ | | ५ | ६ | | ७ | ८ | |
| १ | २ | २० पानी | ८३०५८२२ | ते ८३०६००० | १७९ | १३८९६२७३ | ते १३८९६५०० | २२८ | ८३०५८२२ | ते ८३०६००० | १७९ |
| २ | | २० पानी | ८३०८८०१ | ते ८३०९२०० | ४०० | १३८९६५०१ | ते १३८९६५९७ | ९७ | ८३०८८०१ | ते ८३०९२०० | ४०० |
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| ४ | | २० पानी | ८३२४४०१ | ते ८३२४८०० | ४०० | - | ते ० | - | ८३२४४०१ | ते ८३२४८०० | ४०० |
| ५ | | २८ पानी | १०२४३७५१ | ते १०२४४००० | २५० | - | ते - | - | १०२४३७५१ | ते १०२४४००० | २५० |
| ६ | | २८ पानी | १०२५८००१ | ते १०२५८२५० | २५० | - | ते - | - | १०२५८००१ | ते १०२५८२५० | २५० |
| ७ | | २८ पानी | १०२६०५०१ | ते १०२६०७५० | २५० | - | ते - | - | १०२६०५०१ | ते १०२६०७५० | २५० |
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| २१ | | २८ पानी | १४८३४००१ | ते १४८३४२५० | २५० | - | ते - | - | १५२७६७५१ | ते १५२७७००० | २५० |
| २२ | | २८ पानी | १५२७६७५१ | ते १५२७७००० | २५० | - | ते - | - | १५३००७५१ | ते १५३०१००० | २५० |
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| २५ | | २८ पानी | १५३०४७५१ | ते १५३०५००० | २५० | - | ते - | - | - | - | - |
| एकुण.... | | | | | ६६०७ | | | ३२५ | | | ६२८२ |



Amal

Dr. A. E. Mali

PRINCIPAL

M.G. Tele Com., C & B.R. Tele Science
and K. Tele Management College,
Thalner, Tal. Shirpur, Dist. Dhule

कवयित्री बहिणाबाई चौधरी उत्तर महाराष्ट्र विद्यापीठ जळगांव, परीक्षा ऑक्टोबर/ नोव्हेंबर. २०१९

विवरण पत्रक, खर्च देयकतक्का (नमुना "ड")

| दिनांक | परिक्षेची वेळ | वर्ग | विषय | प्रिक्षेस बसलेले विद्यार्थी | ब्लॉक संख्या | नियुक्त केलेले कनिष्ठ पर्यवेक्षक | नियुक्त रिज़ीव्हिंग पर्यवेक्षक | नियुक्त केलेले अंतर्गत दक्षता पथक सदस्य | नियुक्त केलेले वरीष्ठ पर्यवेक्षक अंतर्गत + बहिस्थ | शेरा |
|------------|---------------------|----------------|----------------------------------|-----------------------------|--------------|----------------------------------|--------------------------------|---|---|------|
| 01/11/2019 | 9.00 am to 11.00 am | S.Y.Sc III, IV | Comp-221 & Zoo241 | 7 | 1 | 1 | 0 | 0 | 1 | |
| | 12.00 pm to 2.00 pm | S.Y.Sc III | CH-231 & CH-301 | 19 | 1 | 1 | 0 | 0 | 2 | |
| | 3.00 pm to 5.00 pm | S.Y.Sc IV | MTH-241 | 2 | 1 | 1 | 0 | 0 | 2 | |
| 02/11/2019 | 9.00 am to 11.00 am | S.Y.Sc IV | Ele-241 | 2 | 1 | 1 | 0 | 0 | 2 | |
| | 12.00 pm to 2.00 pm | S.Y.Sc III | Comp-211 & Zoo-231,Zoo-301 | 9 | 1 | 1 | 0 | 0 | 2 | |
| | 3.00 pm to 5.00 pm | S.Y.Sc IV | CH-241 | 7 | 1 | 1 | 0 | 0 | 2 | |
| 04/11/2019 | 9.00 am to 11.00 am | S.Y.Sc IV | Bot-241 | 5 | 1 | 1 | 0 | 0 | 2 | |
| 05/11/2019 | 9.00 am to 11.00 am | S.Y.Sc IV | CH-242 | 13 | 1 | 1 | 0 | 0 | 1 | |
| | 12.00 pm to 2.00 pm | S.Y.Sc III | Zoo-232 & Zoo-302, Comp-212 | 11 | 1 | 1 | 0 | 0 | 2 | |
| | 3.00 pm to 5.00 pm | S.Y.Sc IV | Ele-242 | 4 | 1 | 1 | 0 | 0 | 2 | |
| 06/11/2019 | 9.00 am to 11.00 am | S.Y.Sc IV | Bot-242 | 4 | 1 | 1 | 0 | 0 | 2 | |
| | 12.00 pm to 2.00 pm | S.Y.Sc III | Phy-301 | 4 | 1 | 1 | 0 | 0 | 2 | |
| | 3.00 pm to 5.00 pm | S.Y.Sc IV | Comp-222 & Zoo-242 | 9 | 1 | 1 | 0 | 0 | 2 | |
| 07/11/2019 | 12.00 pm to 2.00 pm | S.Y.Sc III | Bot-231 & Bot-301 | 9 | 1 | 1 | 0 | 0 | 2 | |
| 08/11/2019 | 12.00 pm to 2.00 pm | S.Y.Sc III | CH-302 & CH-232 | 21 | 1 | 1 | 0 | 0 | 2 | |
| | 3.00 pm to 5.00 pm | T.Y.Sc V | CH-351 | 16 | 1 | 1 | 0 | 0 | 2 | |
| 09/11/2019 | 12.00 pm to 2.00 pm | S.Y.Sc III | Phy-302(A),Phy-302(B),Phy-232(B) | 6 | 1 | 1 | 0 | 0 | 2 | |
| | 3.00 pm to 5.00 pm | T.Y.Sc V | CH- 352 | 12 | 1 | 1 | 0 | 0 | 1 | |
| 11/11/2019 | 9.00 am to 11.00 am | T.Y.Sc VI | CH- 363 | 1 | 1 | 1 | 0 | 0 | 2 | |
| | 12.00 pm to 2.00 pm | S.Y.Sc III | Bot- 302 & Bot- 232 | 7 | 1 | 1 | 0 | 0 | 2 | |
| | 3.00 pm to 5.00 pm | T.Y.Sc V | CH-353 | 17 | 1 | 1 | 0 | 0 | 1 | |
| 13/11/2019 | 9.00 am to 11.00 am | T.Y.Sc VI | CH-364 | 4 | 1 | 1 | 0 | 0 | 1 | |
| | 12.00 pm to 2.00 pm | S.Y.Sc III | MTH-232 | 1 | 1 | 1 | 0 | 0 | 1 | |
| 14/11/2019 | 3.00 pm to 5.00 pm | T.Y.Sc V | CH-354 | 12 | 1 | 1 | 0 | 0 | 1 | |
| | 12.00 pm to 2.00 pm | S.Y.Sc III | ELE-301 & ELE-231 | 7 | 1 | 1 | 0 | 0 | 2 | |
| 15/11/2019 | 3.00 pm to 5.00 pm | T.Y.Sc V | CH-355 | 13 | 1 | 1 | 0 | 0 | 2 | |
| | 12.00 pm to 2.00 pm | S.Y.Sc III | MAR-231 | 8 | 1 | 1 | 0 | 0 | 2 | |
| 16/11/2019 | 3.00 pm to 5.00 pm | T.Y.Sc V | CH-356 | 11 | 1 | 1 | 0 | 0 | 2 | |
| | 12.00 pm to 2.00 pm | S.Y.Sc III | ELE-302 & ELE-232 | 6 | 1 | 1 | 0 | 0 | 2 | |
| 19/11/2019 | 3.00 pm to 5.00 pm | S.Y.Sc IV | MAR-241 | 3 | 1 | 1 | 0 | 0 | 2 | |
| 21/11/2019 | 3.00 pm to 5.00 pm | S.Y.Sc IV | PHY-241 | 3 | 1 | 1 | 0 | 0 | 1 | |
| 22/11/2019 | 3.00 pm to 5.00 pm | S.Y.Sc IV | PHY-242 | 4 | 1 | 1 | 0 | 0 | 1 | |
| 22/11/2019 | 12.00 pm to 2.00 pm | S.Y.Sc III | CH-304 | 8 | 1 | 1 | 0 | 0 | 1 | |
| 01/12/2019 | 2.00 pm to 4.00 pm | S.Y.Sc IV | GK | 1 | 1 | 1 | 0 | 0 | 2 | |
| | | | | | 34 | 34 | | | 58 | |
| | | | | | | 75 | | | 100 | |
| | | | | | 2550 | | | | 5800 | |

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 ACCOUNTANTS
 SHIMPTON

Chartered Accountant



Dr. N. O. Girase
 PRINCIPAL
 vi.G. Tele Com. C & B.R. Tele Science
 And K. Tele Management College,
 Thalner, Tal. Shirour, Dist. Dhule

कवयित्री बहिणाबाई चौधरी उत्तर महाराष्ट्र विद्यापीठ जळगाव, परीक्षा मे/ जून/ जुलै २०२२

विवरण पत्रक, खर्च देयकतक्ता (नमुना "ड")

| अं.क्र | दिनांक | परीक्षेची वेळ | वर्ग | विषय | परीक्षेस बसलेले विद्यार्थी | ब्लॉक संख्या | नियुक्त केलेले कनिष्ठ परीक्षक | नियुक्त केलेले रीलीव्हिंग परीक्षक | नियुक्त केलेले अंतर्गत दक्षता पथक | नियुक्त केलेले वरिष्ठ परीक्षक + अंतर्गत बहिस्त | शेरा |
|--------|------------|-------------------|--------|---|----------------------------|--------------|-------------------------------|-----------------------------------|-----------------------------------|--|------|
| 1 | 14-06-2022 | 9:30am to 11:00am | SY IV | CH-401 (Physical and Inorganic Chemistry) | 9 | 1 | 1 | 0 | 0 | 2 | |
| 2 | 15-06-2022 | 3:30pm to 5:00pm | TY VI | CH-601 (Principles of Physical Chemistry-II) | 16 | 1 | 1 | 0 | 0 | 2 | |
| 3 | 16-06-2022 | 9:30am to 11:00am | SY IV | CS-401 (Date Structure-II) | 1 | 1 | 1 | 0 | 0 | 2 | |
| | | | | {ZOO-241} ZOO-401 (Genetics) | 11 | 1 | 1 | 0 | 0 | 2 | |
| 4 | 17-06-2022 | 3:30pm to 5:00pm | TY VI | CH-602 (Chemistry of Inorganic Solid) | 16 | 1 | 1 | 0 | 0 | 2 | |
| 5 | 20-06-2022 | 3:30pm to 5:00pm | TY VI | CH-603 (Spectroscopic Methods of Structure Determination) | 16 | 1 | 1 | 0 | 0 | 2 | |
| 6 | 21-06-2022 | 9:30am to 11:00am | SY IV | CS-402 (Programming in C++ -II) | 1 | 1 | 1 | 0 | 0 | 2 | |
| | | | | ZOO-402 (Evolutionary Biology) | 9 | 1 | 1 | 0 | 0 | 2 | |
| 7 | 22-06-2022 | 3:30pm to 5:00pm | TY VI | CH-604 (Chemistry of Industrially Important Products) | 16 | 1 | 1 | 0 | 0 | 2 | |
| 8 | 23-06-2022 | 9:30am to 11:00am | SY IV | CH-404 (Advanced Analytical Chemistry) | 9 | 1 | 1 | 0 | 0 | 2 | |
| | | 9:30am to 11:00am | SY IV | CS-404 (Network Security) | 1 | 1 | 1 | 0 | 0 | 2 | |
| 9 | 24-06-2022 | 3:30pm to 5:00pm | TY VI | CH-605 (Analytical Techniques) | 16 | 1 | 1 | 0 | 0 | 2 | |
| 10 | 25-06-2022 | 9:30am to 11:00am | SY IV | MAR-232 (Marathi-II) | 10 | 1 | 1 | 0 | 0 | 2 | |
| 11 | 26-06-2022 | 2:30pm to 4:00pm | SY IV | GK (General Knowledge - 99999) | 13 | 1 | 1 | 0 | 0 | 1 | |
| 12 | 27-06-2022 | 3:30pm to 5:00pm | TY VI | CH-606(A) (Polymer Chemistry) | 16 | 1 | 1 | 0 | 0 | 2 | |
| 13 | 28-06-2022 | 9:30am to 11:00am | SY IV | PHY-401 (Waves, Oscillations and acoustics) | 3 | 1 | 1 | 0 | 0 | 2 | |
| 14 | 30-06-2022 | 9:30am to 11:00am | SY IV | {CH-242} CH-402 (Organic and Inorganic Chemistry) | 10 | 1 | 1 | 0 | 0 | 2 | |
| 15 | 01-07-2022 | 3:30pm to 5:00pm | SY III | CH-304 (Basic Analytical Chemistry) | 1 | 1 | 1 | 0 | 0 | 2 | |
| 16 | 07-07-2022 | 3:30pm to 5:00pm | SY III | MAR-231 Marathi | 2 | 1 | 1 | 0 | 0 | 2 | |
| 17 | 08-07-2022 | 9:30am to 11:00am | SY IV | PHY-402 (Optics and Lasers) | 3 | 1 | 1 | 0 | 0 | 2 | |
| 18 | 14-07-2022 | 9:30am to 11:00am | SY IV | ELE-401 (Digital Communication) | 1 | 1 | 1 | 0 | 0 | 2 | |
| 19 | 16-07-2022 | 9:30am to 11:00am | SY IV | BOT-401 (Plant Embryology) | 7 | 1 | 1 | 0 | 0 | 2 | |
| 20 | 19-07-2022 | 9:30am to 11:00am | SY IV | ELE-402 (Microcontrollers and Applications) | 1 | 1 | 1 | 0 | 0 | 2 | |
| 21 | 23-07-2022 | 12:30pm to 2:00pm | SY IV | BOT-402 (Plant Metabolism) | 7 | 1 | 1 | 0 | 0 | 2 | |
| 22 | 27-07-2022 | 12:30pm to 2:00pm | SY III | ZOO-302 (Biochemistry) | 1 | 1 | 1 | 0 | 0 | 1 | |
| | | | | | | 25 | 25 | | | 48 | |
| | | | | | | X | 75 | | X | 100 | |
| | | | | | | | 1875 | | | 4800 | |



Almal
Dr. A. E. Mali
PRINCIPAL
M.G. Tele Com., C & B.R. Tele Science
and K. Tele Management College,
Thalner, Tal. Shirpur, Dist. Dhule

॥ अंतरी पेटवू ज्ञानज्योत ॥

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उत्तर महाराष्ट्र विद्यापीठ, जळगाव

NORTH MAHARASHTRA UNIVERSITY, JALGAON.

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Receipt no : 24,731

Date : 23.10.2019

Customer Name : GSBS'S MGT COM, C&BRT SCI. & KT MGT. CO
City: THALNER.

Customer No: 101100526

| Sr.No | A/c Head | Description | Dept | Amount Rs |
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| 1 | 11001300 | Printng of Ans.Books | 102000 | 5672 |

Total : 5672/-

Ref : DD No.003490

Inwords : FIVE THOUSAND SIX HUNDRED SEVENTY TWO RUPEES ONLY.

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Finance and Accounts Officer
Kavayitri Bahinabai Chaudhari
North Maharashtra University
Jalgaon

0007221

Certificate of the Chartered Accountant

Certify that expenditure incurred out of examination grant paid to M.G. Tele Commerce, C. & B. R. Tele Science & K. Tele Management College Thalner, Tal - Shirpur Dist -Dhule.

For the conduct of University examination held in October / November - 2019 has been incurred by observing scrupulously all rules and rates prescribed in the scale of remuneration pimpled.

I further certify that the amount of Rs. 37560/- has been fully utilized by the college for the purpose for which the grant is released.

FOR M/s. A.R. SHIMPI & ASSOCIATES

A. R. Shimpi

CHARTERED ACCOUNTANTS
(PROP. CA. ANUP R. SHIMPI)



VDIA - 19119024AAAA CB 8261

Place - Shirpur Date: - 26/12/19

Certified that audited statement of account for the above examination duly audited by the chartered accountant has been retained in the office and will be made available as and when necessary.

Please : Shirpur

Date :

[Signature]
PRINCIPAL
M.G. Tele Com. C & B. R. Tele Science
And K. Tele Management College
Thalner, Tal. Shirpur, Dist. Dhule.

| |
|-------------------------------|
| Senior Supervisor |
| Examiner Details |
| Flying Squad Details |
| Examination Panel Details |
| Practical Examination Details |

Senior Supervisor Details

Name of Examination Centre : M.G. TELE COMMERCE COLLEGE, CHINDHA AND BARAKU RAMAJI TELE SCIENCE COLLEGE, AND KESHARBAI TELE COLLEGE OF MANAGEMENT, THALNER

| Name of Senior Supervisor / Type of Supervisor | Name of College of Senior Supervisor | Contact Details | Period of Examination | | Name of University Examination |
|--|--|---------------------------------|-----------------------|------------|--------------------------------|
| | | | From | To | |
| PREM KIRAN GOPAL BHADANE [External] | [E240036] KISAN VIDYA PRASARAK SANSTHA S S.P.D.M. ARTS COMMERCE AND SCIENCE COLLEGE | 02563-259801 (O) 9420247019 (M) | 14-06-2022 | 25-06-2022 | EXAM JUNE-JULY 2022 |
| DR RAGHUNATH MANDARAM SHEWALE [Internal] | [E543796] M.G. TELE COMMERCE COLLEGE, CHINDHA AND BARAKU RAMAJI TELE SCIENCE COLLEGE, AND KESHARBAI TELE COLLEGE OF MANAGEMENT, THALNER | --- (O) -- (M) | 14-06-2022 | 25-06-2022 | EXAM JUNE-JULY 2022 |
| RAGHUNATH PANDHARINATH MAHAJAN [External] | [E240051] R C PATEL EDUCATIONAL TRUST S R.C.PATEL ARTS COMMERCE &SCIENCE COLLEGE SHIRPUR | 02563-257328 (O) 9421524780 (M) | 14-06-2022 | 25-06-2022 | EXAM JUNE-JULY 2022 |
| RAJU GIRDHAR PAWAR [External] | [E280061] ADIVASI SATPUDA SHIKSHAN PRASARAK MANDAL DHADGAON SANCHALIT MAHARAJ JANARDAN POHARYA VALVI ARTS & COMMERCE SHRI VISHNU KRISHNE KULKARNI SCIENCE COLLEGE DHADGAON TAL.AKRANI DIST.NANDURBAR | 02595-220396 (O) 9423288696 (M) | 26-06-2022 | 09-07-2022 | Exam June July 2022 |
| PARESH GOPAL PATIL [External] | [E240036] KISAN VIDYA PRASARAK SANSTHA S S.P.D.M. ARTS COMMERCE AND SCIENCE COLLEGE | --- (O) 9420110270 (M) | 26-06-2022 | 09-07-2022 | EXAM JUNE-JULY 2022 |
| ANAND JAYANTILAL MAHESHWARI [Internal] | [E240051] R C PATEL EDUCATIONAL TRUST S R.C.PATEL ARTS COMMERCE &SCIENCE COLLEGE SHIRPUR | 02563-257328 (O) 9420373709 (M) | 26-06-2022 | 09-07-2022 | EXAM JUNE-JULY 2022 |
| DILIP ATMARAM PATIL [External] | [E240051] R C PATEL EDUCATIONAL TRUST S R.C.PATEL ARTS COMMERCE &SCIENCE COLLEGE SHIRPUR | 02563-257328 (O) 9822710038 (M) | 26-06-2022 | 09-07-2022 | EXAM JUNE-JULY 2022 |
| VIJAY DNYANESHWAR ZUNJARRAO [External] | [E240080] ANNAPURNA VIDYA PRASARAK SANSTHA SANCHALIT LATE ANNASAHEB PITAMBER SHANKAR WADILE THALNER, TAL. SHIRPUR, DIST. DHULE | --- (O) -- (M) | 27-06-2022 | 09-07-2022 | Exam June July 2022 |
| BHAGWAN NIMBA GIRASE [External] | [E230066] GRAM VIKAS SANSTHA SANCHALIT ARTS COLLEGE BAMBHEDA | 02565-245576 (O) 9423243121 (M) | 11-07-2022 | 23-07-2022 | EXAM JUNE-JULY 2022 |
| RAHUL PITAMBAR JADHAV [External] | [E140065] PANKAJ SHAIKSHANIK AND SAMAJIK SANTHAS SANCHALIT PANKAJ ARTS COLLEGE CHOPDA | --- (O) -- (M) | 11-07-2022 | 23-07-2022 | EXAM JUNE-JULY 2022 |
| SANJAY SANTOSH PATIL [External] | [E140065] PANKAJ SHAIKSHANIK AND SAMAJIK SANTHAS SANCHALIT PANKAJ ARTS COLLEGE CHOPDA | 02586-222514 (O) 9881929180 (M) | 11-07-2022 | 23-07-2022 | EXAM JUNE-JULY 2022 |
| RAVINDRA HIMMATRAO PATIL [Internal] | [E240051] R C PATEL EDUCATIONAL TRUST S R.C.PATEL ARTS COMMERCE &SCIENCE COLLEGE SHIRPUR | --- (O) -- (M) | 11-07-2022 | 23-07-2022 | EXAM JUNE-JULY 2022 |
| ROHIDAS HUTARYA PAWARA [External] | [E240051] R C PATEL EDUCATIONAL TRUST S R.C.PATEL ARTS COMMERCE &SCIENCE COLLEGE SHIRPUR | --- (O) -- (M) | 11-07-2022 | 23-07-2022 | EXAM JUNE-JULY 2022 |
| DR RAGHUNATH MANDARAM SHEWALE [Internal] | [E543796] M.G. TELE COMMERCE COLLEGE, CHINDHA AND BARAKU RAMAJI TELE SCIENCE COLLEGE, AND KESHARBAI TELE COLLEGE OF MANAGEMENT, THALNER | --- (O) -- (M) | 25-07-2022 | 30-07-2022 | EXAM JUNE-JULY 2022 |
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| SANJAY SANTOSH PATIL [External] | [E140065] PANKAJ SHAIKSHANIK AND SAMAJIK SANTHAS SANCHALIT PANKAJ ARTS COLLEGE CHOPDA | 02586-222514 (O) 9881929180 (M) | 25-07-2022 | 30-07-2022 | EXAM JUNE-JULY 2022 |



Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon

कवयित्री बहिणाबाई चौधरी उत्तर महाराष्ट्र विद्यापीठ, जळगाव

Maharashtra, India

'A' Grade NAAC Re-accredited (4th Cycle)



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College code = 240120

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PRN No: 2023015400109971

Seat Number: 308178

Mobile Number: 9146924014

e-mail Id: sonarrahul421@gmail.com

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Course Name: F.Y.B.Sc. (plain)

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माझा रिझल्ट अजून उपलब्ध करून देण्यात आलेला नाही. त्यामुळे मला मे-2024 मध्ये होणा-या परिक्षेस फॉर्म भरणे येत नाही. तरी मला फॉर्म भरण्याची सुत्रा उपलब्ध करून देण्यात यावी.



(Signature)