

This question paper contains 3 printed pages]

AA—1002—2025

FACULTY OF ALL

B.A./B.Com./B.Sc. (First Year) (First Semester) EXAMINATION

APRIL/MAY, 2025

(NEP-2020 Pattern)

INDIAN KNOWLEDGE SYSTEM

Paper-IKS-1101

(Wednesday, 2-4-2025)

Time : 10.00 a.m. to 12.00 noon

Time—2 Hours

Maximum Marks—40

N.B. :— (i) All questions carry equal marks.

(ii) Question no. 1 is compulsory.

(iii) Solve any three of the remaining five questions (Q. Nos. 2 to 6).

(iv) Figures to the right indicate full marks.

(i) सर्व प्रश्नाना समान गुण आहेत.

(ii) प्रश्न क्र. 1 अनिवार्य आहे.

(iii) उर्वरित 5 प्रश्नापैकी कोणतेही 3 प्रश्न सोडवा (प्र. क्र. 2 ते 6).

(iv) उजवीकडील अंक पूर्ण गुण दर्शवितात.

P.T.O.

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(2)

AA—1002—2025

1. Solve the following questions (2.5 marks each) : 10
- (a) What is the Indian Knowledge System ?
- (b) Describe in detail the nature of Buddhist philosophy, its four Noble Truths and the Eightfold Path.
- (c) What is the significance of city planning in ancient Indian architecture ?
- (d) What is the importance of the contributions of Sushruta Samhita and Vagbhata ?
- खालील प्रश्न सोडवा (प्रत्येकी 2.5 गुण) :
- (a) भारतीय ज्ञान प्रणाली म्हणजे काय ?
- (b) बौद्ध दर्शनाचे स्वरूप, त्याचे चार आर्यसत्ये आणि अष्टांगिक मार्ग यांचे सविस्तर वर्णन करा.
- (c) प्राचीन भारतीय स्थापत्यकलेतील शहर नियोजनाचे महत्त्व काय आहे ?
- (d) सुश्रुत संहिता आणि वाग्भट यांच्या योगदानाचे महत्त्व काय आहे ?
2. What is the significance of the Gurukula system, and how did it operate within the context of ancient Indian education ? 10
- गुरुकुल पद्धतीचे महत्त्व काय आहे आणि ती प्राचीन भारतीय शिक्षण पद्धतीत कशी कार्यरत होती ?
3. What is the concept of Nāstika systems ? Provide a detailed introduction to Jainism, including its nature, concepts and scriptures, as one of the Nāstika systems. 10
- नास्तिक प्रणाली म्हणजे काय ? जैन धर्म या नास्तिक प्रणालीचे स्वरूप, संकल्पना आणि साहित्याचा सविस्तर परिचय द्या.
4. What is the concept of Indian Economics ? 10
- भारतीय अर्थशास्त्राची संकल्पना काय आहे ?

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(3)

AA—1002—2025

5. How was the metal industry in ancient India ? 10
प्राचीन भारतातील धातू उद्योग कसा होता ?
6. Solve the following questions (2.5 marks each) : 10
- (a) What were the features of the ancient Indian education system ?
- (b) What does 'Apoorva' mean, and what is its significance ?
- (c) Provide a detailed description of the concept and tradition of ancient Indian music.
- (d) How did the historical development of astronomy unfold in India ?
- खालील प्रश्न सोडवा (प्रत्येकी 2.5 गुण) :
- (a) भारतीय प्राचीन शिक्षण पद्धतीची वैशिष्ट्ये कोणती होती ?
- (b) अपूर्वा म्हणजे काय आणि त्याचे महत्त्व काय आहे ?
- (c) प्राचीन भारतीय संगीताची संकल्पना आणि परंपरा याबद्दल सविस्तर वर्णन करा.
- (d) भारतामध्ये खगोलशास्त्राचा ऐतिहासिक विकास कसा झाला ?

AA—1002—2025

3

This question paper contains 2 printed pages]

AA—01—2025

**FACULTY OF HUMANITIES/SCIENCE AND TECHNOLOGY AND
COMMERCE AND MANAGEMENT**

B.A./B.Sc./B.Com. (First Year) (First Semester) EXAMINATION

APRIL/MAY, 2025

(NEP-2020)

ENGLISH (Comp.)

Paper-I(HENGAEC-1101)

(Developing Spoken Communication)

(Friday, 4-4-2025)

Time : 10.00 a.m. to 12.00 noon

Time—2 Hours

Maximum Marks—40

N.B. :— (i) Question No. 1 is compulsory.

(ii) Attempt any three questions from Q. Nos. 2 to 5.

(iii) Figures to the right indicate full marks.

1. Write short notes on :

10

(i) Types of communication

(ii) Imperative sentences

(iii) Tips for proposing vote of thanks

(iv) Telephonic conversation.

P.T.O.

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(2)

AA—01—2025

2. Explain, how verbal communication differs from nonverbal communication. 10
3. Illustrate the usage of exclamations in English language by giving suitable examples. 10
4. Draft a Welcome Speech for the College Annual Function. 10
5. Ramesh calls up Rohan to convince him to go to college trip. Draft the conversation. 10

AA—01—2025

2

This question paper contains 2 printed pages]

AA—09—2025

FACULTY OF HUMANITIES

B.A./B.Sc./B.Com. (First Year) (First Semester) EXAMINATION

APRIL/MAY, 2025

(NEP-2020)

HINDI (MIL)

Paper-I-HHINMIL-1101

(साहित्य कलश और व्यावहारिक हिंदी, भाग-1)

(Monday, 7-4-2025)

Time : 10.00 a.m. to 12.00 Noon

Time—2 Hours

Maximum Marks—40

N.B. :— (i) पहला प्रश्न अनिवार्य है।

(ii) प्रश्न क्रमांक 2 से 6 में से किन्हीं तीन प्रश्नों के उत्तर लिखिए।

(iii) सभी प्रश्नों के समान अंक हैं।

1. निम्नलिखित में से किन्हीं दो पर टिप्पणियाँ लिखिए :

10

(अ) 'ब्लॉग' की उपयोगिता

(ब) दूरदर्शन के विज्ञापन की विशेषताएँ

(क) 'पंच परमेश्वर' कहानी का समझू साहू।

(ड) 'जो बीत गई सो बात गई' कविता का आशय।

P.T.O.

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(2)

AA—09—2025

2. 'चीफ़ की दावत' कहानी की कथावस्तु लिखिए। 10
3. 'गीत फरोश' कविता की संवेदना को स्पष्ट कीजिए। 10
4. ब्लॉग के स्वरूप पर प्रकाश डालिए। 10
5. आकाशवाणी के विज्ञापन की विशेषताएँ लिखिए। 10
6. 'उर्फ़ सैम' कहानी की कथावस्तु लिखिए। 10

AA—09—2025

2

This question paper contains 2 printed pages]

AA—10—2025

FACULTY OF HUMANITIES

B.A./B.Sc./B.Com. (First Year) (First Semester) EXAMINATION

APRIL/MAY, 2025

MARATHI (MIL)

Paper—AECMAR-1101

(गद्य, पद्य व उपयोजित मराठी-I)

(Monday, 7-4-2025)

Time : 10.00 a.m. to 12.00 noon

Time—2 Hours

Maximum Marks—40

N.B. :— (i) पहिला प्रश्न सोडविणे अनिवार्य आहे.

(ii) सर्व प्रश्नांना समान गुण आहेत.

1. टिपा लिहा (कोणत्याही दोन) :

10

(अ) 'काळ्या तोंडाची' या कथेतील चंपी

(ब) 'युगायुगाची गुलामी चाल' मधील स्त्री

(क) कार्यालयीन पत्रलेखनाचे घटक

(ड) इतिवृत्ताचे स्वरूप.

P.T.O.

WT

(2)

AA—10—2025

(पुढील प्रश्न क्रमांक 2 ते प्रश्न क्रमांक 6 या मधील कोणतेही तीन प्रश्न सोडवा) : 30

2. 'पुरुषांकडून स्त्रियांवर होणाऱ्या अन्यायाचे विवेचन' ताराबाई शिंदे यांनी कसे केले आहे ते लिहा.
3. 'भुरा' या नायकाच्या जीवन संघर्षाचे चित्रण शरद बावीस्कर यांनी कसे केले आहे ते स्पष्ट करा.
4. प्रेमाचा उत्कट आविष्कार 'अंदाज आरशाचा' या गझलेतून कसा उमटला आहे. ते लिहा.
5. दुष्काळी परिस्थितीमुळे होरपळलेल्या गावाचे चित्रण रवी कोरडे यांनी कसे केले आहे ?
6. कार्यालयीन पत्रलेखन करतांना कोणत्या बाबीची काळजी घेतली पाहिजे ते लिहा.

AA—10—2025

2

This question paper contains 2 printed pages]

NEPSK—101—2025

FACULTY OF COMPUTER STUDIES

B.Sc. (First Year) (First Semester) EXAMINATION

APRIL/MAY, 2025

DATA SCIENCE

SDTSCT-1101

(Data Analysis with Excel-I)

(Wednesday, 9-4-2025)

Time : 10.00 a.m. to 12.00 noon

Time—2 Hours

Maximum Marks—40

- N.B.** :— (i) Question No. 1 is compulsory.
- (ii) From Q. Nos. 2 ro 6 solve any *three*.
- (iii) Figures to the right indicate full marks.
- (iv) Assume suitable data, if necessary.
- (v) Use of any electronic media such as mobile phone, digital diary and electronic calculator is not permitted.

1. Attempt the following (2 marks each) : 10

- (a) What is a cell address in Excel ?
- (b) Describe the VLOOKUP function in Excel.
- (c) Define data.

P.T.O.

- (d) Discuss the purpose of data validation.
- (e) Explain the use of the INDEX and MATCH functions.
2. Attempt any ONE of the following : 10
- (a) Explain the process of importing and formatting data in Excel.
- (b) Describe the use of Pivot Tables for data summarization.
3. Attempt any ONE of the following : 10
- (a) Discuss how to create charts and graphs in Excel.
- (b) Explain hypothesis testing using Excel.
4. Attempt any ONE of the following : 10
- (a) Describe correlation and regression analysis in Excel.
- (b) Provide an example of statistical data analysis in a real-world scenario.
5. Attempt any ONE of the following : 10
- (a) Explain advanced data modelling techniques in Excel.
- (b) Describe the Goal Seek function and its uses.
6. Write short notes on the following : 10
- (a) Creating Charts in Excel.
- (b) Different Formula in Excel

This question paper contains 2 printed pages]

NEPSK—102—2025

FACULTY OF SCIENCE AND TECHNOLOGY

B.Sc. (First Year) (First Semester) EXAMINATION

APRIL/MAY, 2025

(NEP Pattern)

DATA SCIENCE

Paper—SDTSMT-1101

(Web Technology-I)

(Saturday, 12-4-2025)

Time : 10.00 a.m. to 12.00 noon

Time—2 Hours

Maximum Marks—40

- N.B.** :— (i) Question No. 1 is compulsory.
- (ii) From Q. Nos. 2 ro 6 solve any *three*.
- (iii) Figures to the right indicate full marks.
- (iv) Assume suitable data, if necessary.
- (v) Use of any electronic media such as mobile phone, digital diary and electronic calculator is not permitted.

1. Attempt the following (2 marks each) : 10

- (a) Explain role of web server.
- (b) Explain head tag.
- (c) Explain anchor tag.

P.T.O.

- (d) What is ordered list ?
- (e) What are advantages of HTML5 ?
2. Attempt the following (5 marks each) : 10
- (a) Explain client side programming.
- (b) Explain web protocols in detail.
3. Attempt the following (5 marks each) : 10
- (a) Explain table tag with example.
- (b) Write a program to demonstrate image tags.
4. Attempt the following (5 marks each) : 10
- (a) Explain frame tag with example.
- (b) Write a program to demonstrate form tag in HTML.
5. Attempt the following (5 marks each) : 10
- (a) Explain elements of HTML5.
- (b) Write a program to demonstrate creating form inputs and validations.
6. Write short notes on the following (5 marks each) : 10
- (a) Unordered list
- (b) Body tags.

This question paper contains 2 printed pages]

NEPSK—103—2025

FACULTY OF SCIENCE AND TECHNOLOGY

B.Sc. (First Year) (First Semester) EXAMINATION

APRIL/MAY, 2025

(NEP 2020 Pattern)

DATA SCIENCE

SDTSMT-1102

(Programming with Python-I)

(Wednesday, 16-4-2025)

Time : 10.00 a.m. to 12.00 noon

Time—2 Hours

Maximum Marks—40

- N.B.** :— (i) Question paper consists of **6** questions, each of **10** marks.
(ii) Question No. **1** is compulsory.
(iii) Solve any *three* from Q. No. **2** to Q. No. **6**.

1. Attempt the following (**2** marks each) : 10

- (a) Tuples in Python.
- (b) What is dictionary ?
- (c) Explain Python variables.
- (d) Explain comments in Python.
- (e) Explain indentation in Python.

P.T.O.

WT

(2)

NEPSK—103—2025

2. Attempt the following questions : 10
- (a) What is history of Python ?
 - (b) Explain identifiers in Python.
3. Attempt the following questions : 10
- (a) Explain data type conversion.
 - (b) Define for loop with *one* example.
4. Attempt the following questions : 10
- (a) Explain Python functions.
 - (b) What is Python and explain features of Python.
5. Attempt the following questions : 10
- (a) What are the keywords in python ?
 - (b) Describe Python operator precedence.
6. Attempt the following questions : 10
- (a) Explain any *three* data types in detail.
 - (b) Write a program to print given number is even or odd.

NEPSK—103—2025

2

This question paper contains 2 printed pages]

AA—1003—2025

FACULTY OF ALL

B.A./B.Com./B.Sc. (First Year) (Second Semester) EXAMINATION

APRIL/MAY, 2025

(NEP-2020 Pattern)

VALUE EDUCATION

(VECCOI-1151)

(Constitution of India-I)

(Thursday, 3-4-2025)

Time : 10.00 a.m. to 12.00 noon

Time—2 Hours

Maximum Marks—40

N.B. :- (i) Question No. 1 is compulsory.

(ii) Students are required to solve a total of 4 questions.

(iii) Students are required to solve any *three* of the remaining five questions (Q. Nos. 2 to 6).

(i) प्रश्न क्रमांक एक अनिवार्य आहे.

(ii) एकूण 4 प्रश्न सोडविणे आवश्यक आहे.

(iii) प्रश्न क्रमांक 2 ते 6 पैकी कोणतेही तीन प्रश्न सोडवा.

1. Write short notes on (All) (2.5 marks each) :

10

(a) Explain the sources of Indian Constitution

(b) Discuss the Directive Principles of State Policy

(c) Comment on Judicial activism

(d) Explain the utility of Rajya Sabha.

P.T.O.

This question paper contains 2 printed pages]

AA—16—2025

**FACULTY OF HUMANITIES/SCI. AND TECHNOLOGY AND
COMMERCE AND MANAGEMENT**

B.A./B.Com./B.Sc. (First Year) (Second Semester) EXAMINATION

APRIL/MAY, 2025

(NEP-2020)

ENGLISH (Compulsory)

Paper–II (HENGAEC-1151)

(Developing Written Communication)

(Tuesday, 8-4-2025)

Time : 10.00 a.m. to 12.00 noon

Time—2 Hours

Maximum Marks—40

N.B. :- (i) Question No. 1 is compulsory.

(ii) Attempt any *three* questions from Question Nos. 2 to 5.

(iii) Figures to the right indicate full marks.

1. Write short notes on : 10

(i) Purpose of a paragraph

(ii) Expanding Vocabulary

(iii) Types of resumes

(iv) Features of circulars.

P.T.O.

WT

(2)

AA—16—2025

2. Explain the principles of clear writing in detail. 10
3. What are the essential components of essay writing ? Discuss each component in detail. 10
4. Write a job application for the post of Marketing Coordinator at Infosys, Pune. 10
5. Prepare the meeting agenda of the “Marketing Team Strategy Session” including the introduction, review of the previous quarter, upcoming campaign, budget allocation and next steps. 10

AA—16—2025

2

This question paper contains 2 printed pages]

AA—02—2025

FACULTY OF HUMANITIES

B.A./B.Com./B.Sc. (NEP) (First Year) (Second Semester) EXAMINATION

APRIL/MAY, 2025

HINDI (MIL)

Paper HHINMIL-1151

(साहित्य कलश और व्यावहारिक हिंदी : भाग-II)

(Saturday, 5-4-2025)

Time : 10.00 a.m. to 12.00 noon

Time—2 Hours

Maximum Marks—40

N.B. :- (1) **पहला** प्रश्न अनिवार्य है।

(2) प्रश्न क्रमांक **2** से प्रश्न क्रमांक **6** में से किन्हीं **तीन** प्रश्नों के उत्तर लिखिए।

(3) **सभी** प्रश्नों के अंक समान हैं।

1. निम्नलिखित में से किन्हीं **दो** पर टिप्पणियाँ लिखिए :

10

(अ) 'कृत्रिम मेधा' की उपयोगिता।

(ब) 'बाशिंदा' कहानी का करेला ज्ञा।

(क) वाक् से पाठ प्रणाली।

(ड) 'फर्क नहीं पड़ता' कविता का आशय।

P.T.O.

WT

(2)

AA—02—2025

2. 'वसीयतनामा' कहानी की कथावस्तु लिखिए। 10
3. 'कदम मिलाकर चलना होगा' कविता में व्यक्त संदेश स्पष्ट कीजिए। 10
4. 'कृत्रिम मेधा' का अर्थ स्पष्ट करते हुए उसके महत्व को विशद कीजिए। 10
5. 'मुंबई काण्ड' कहानी में व्यक्त मानवीय मूल्यों का विश्लेषण कीजिए। 10
6. 'अपने घर की तलाश' कविता की मूल संवेदना पर प्रकाश डालिए। 10

AA—02—2025

2

This question paper contains 2 printed pages]

AA—03—2025

FACULTY OF HUMANITIES

B.A./B.Sc./B.Com. (First Year) (Second Semester) EXAMINATION

APRIL/MAY, 2025

(NEP-2020)

MARATHI (MIL)

Paper—AECMAR-1151

(मराठी साहित्य आणि व्यावहारिक मराठी—II)

(Saturday, 5-4-2025)

Time : 10.00 a.m. to 12.00 noon

Time—2 Hours

Maximum Marks—40

N.B. :- (i) पहिला प्रश्न सोडविणे अनिवार्य आहे.

(ii) सर्व प्रश्नांना समान गुण आहेत.

1. टिपा लिहा (कोणत्याही दोन) :

10

(अ) 'वाटा-पळवाटा' मधील सतीश

(ब) हायकू

(क) बातमी मूल्ये

(ड) जाहिरातीचा मसुदा.

P.T.O.

WT

(2)

AA—03—2025

पुढील प्रश्न क्रमांक 2 ते 6 यामधील कोणतेही तीन प्रश्न सोडवा : 30

2. 'रोमराज्य' या पाठातून लेखिकेने 'रोम' शहराचे वर्णन कसे केले ते तुमच्या शब्दात लिहा.
3. पंडित जवाहरलाल नेहरू यांनी आपल्या पत्रातून इंदूस कोणता संदेश दिला ते लिहा.
4. कवी केशवकुमार यांनी 'प्रेमाचा गुलकंद' या कवितेतून एकतर्फी प्रेमाचे चित्रण कसे केले ते सांगा.
5. 'आम्ही तुफानातील दिवे' या कवितेचा आशय स्पष्ट करा.
6. आकाशवाणीवरील जाहिरातीच्या स्वरूपाविषयी चर्चा करा.

AA—03—2025

2

Total No. of Printed Pages:02

SUBJECT CODE NO:- NEPSK-201-2025
FACULTY OF SCIENCE AND TECHNOLOGY
B. SC. (DATA SCIENCE) FIRST YEAR (SEM. II) (NEP)
EXAMINATION APRIL /MAY 2025
DATA ANALYSIS WITH POWER BI-I

[Time: 2:00 Hours]

[Max.Marks:40]

“Please check whether you have got the right question paper.”

N.B.

1. Question No. 1 is Compulsory.
2. From Qanoons. 2 to 6 solve any three.
3. Figures to the right indicate full marks.
4. Assume suitable data, if necessary.
5. Use of any electronic media such as mobile phone, digital diary, and electronic calculator is not permitted.

Q.1 Attempt the following (2 Marks each)

10

- a) Explain different data resources for importing data into power BI.
- b) Explain Importing Data from a Data Feed.
- c) Importing Data from Analysis Services
- d) What Is a Data Model?
- e) Explain Unpivoting Data.

Q.2 Attempt of the following (5 Marks each)

10

- a) Explain Making a User-Friendly Model
- b) Explain the xVelocity In-Memory Analytics Engine.

Q.3 Attempt of the following (5 Marks each)

10

- a) Explain Merging Data, Appending Data, Splitting Data with power Query.
- b) Explain Creating Table Relations in the data model.

Q.4 Attempt of the following (5 Marks each)

10

- a) Explain Transforming, Cleansing, and Filtering Data.
- b) Explain Setting Up the Power BI Environment.

Q.5 Attempt of the following (5 Marks each)**10**

- a) Explain Data modelling and different types of relationship in Power BI.
- b) Explain importing data from relational databases and text file.

Q.6 Write a short note of the following (5 Marks each)**10**

- a) What is power BI. Explain use of Power BI.
- b) Explain Power BI Interface in detail.

This question paper contains 2 printed pages]

NEPSK—202—2025

FACULTY OF SCIENCE AND TECHNOLOGY

B.Sc. (First Year) (Second Semester) EXAMINATION

APRIL/MAY, 2025

(NEP Pattern)

DATA SCIENCE

SDTSMT-1151

(Introduction to RDBMS-II)

(Tuesday, 15-4-2025)

Time : 10.00 a.m. to 12.00 noon

Time—2 Hours

Maximum Marks—40

- N.B.** :— (i) Question No. 1 is compulsory.
(ii) From question Nos. 2 to 6 solve any *three*.
(iii) Figures to the right indicate full marks.
(iv) Assume suitable data, if necessary.
(v) Use of any electronic media such as mobile phone, digital diary and electronic calculator is not permitted.

1. Attempt the following (2 marks each) : 10
- (a) Write a note on Alter Command.
(b) Write a note on Self Join.
(c) Explain the concept of Keys.
(d) Explain Before Triggers.
(e) Write a note on Creating table structure.

P.T.O.

WT

(2)

NEPSK—202—2025

2. Attempt the following (5 marks each) : 10
- (a) Explain Entity Relationship Model.
 - (b) Explain advantages of DBMS in detail.
3. Attempt the following (5 marks each) : 10
- (a) Explain the concept of Implicit Cursor.
 - (b) What is Normalization ? Explain 1NF in detail.
4. Attempt the following (5 marks each) : 10
- (a) Explain Codd's rules of DBMS in detail.
 - (b) Write a note on Outer Join.
5. Attempt the following (5 marks each) : 10
- (a) Explain single row functions.
 - (b) Explain Alter command in detail.
6. Write short notes on the following (5 marks each) : 10
- (a) Explain SQL commands in detail.
 - (b) Explain the concept of Exist and Any operator.

NEPSK—202—2025

2

This question paper contains 2 printed pages]

NEPSK—203—2025

FACULTY OF SCIENCE AND TECHNOLOGY

B.Sc. (First Year) (Second Semester) EXAMINATION

APRIL/MAY, 2025

(NEP Pattern)

DATA SCIENCE

SDTSMT-1152

(Operating System-II)

(Thursday, 17-4-2025)

Time : 10.00 a.m. to 12.00 noon

Time—2 Hours

Maximum Marks—40

- N.B.** :— (i) Question No. 1 is compulsory.
(ii) From Q. Nos. 2 to 6 solve any *three*.
(iii) Figures to the right indicate full marks.
(iv) Assume suitable data, if necessary.
(v) Use of any electronic media such as mobile phone, digital diary and electronic calculator is not permitted.

1. Attempt the following (2 marks each) : 10
- (a) Define a multiprocessor system.
 - (b) What is a page map table, and how does it assist in address translation ?
 - (c) Define external fragmentation and provide an example to illustrate it.
 - (d) What is meant by process ?
 - (e) How does a system call function ?

P.T.O.

2. Attempt the following (5 marks each) : 10
- (a) Explain operating system architecture.
 - (b) Explain operating system as resource manager.
3. Attempt the following (5 marks each) : 10
- (a) What are the important scheduling criteria in process management ?
 - (b) What is the priority scheduling algorithm ? Explain its operation and provide an example.
4. Attempt the following (5 marks each) : 10
- (a) Discuss how contiguous memory allocation manages memory.
 - (b) How does segmented memory allocation work in Operating Systems ?
5. Attempt the following (5 marks each) : 10
- (a) Describe the various methods of accessing files in an Operating System.
 - (b) Explain in detail directory and disk structure.
6. Write short notes on the following (5 marks each) : 10
- (a) Paging
 - (b) Round Robin scheduling.