

2111000103050002
EXAMINATION NOVEMBER 2024
BACHELOR OF COMPUTER APPLICATIONS
(THIRD SEMESTER)
WEB DESIGNING-I

[Time: As Per Schedule]

[Max. Marks: 70]

Instructions:

1. Fill up strictly the following details on your answer book
 - a. Name of the Examination: **BACHELOR OF COMPUTER APPLICATIONS (THIRD SEMESTER)**
 - b. Name of the Subject: **WEB DESIGNING-I**
 - c. Subject Code No: **2111000103050002**
2. Sketch neat and labelled diagram wherever necessary.
3. Figures to the right indicate full marks of the question.
4. All questions are compulsory.

Seat No:

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Student's Signature

Q.1 Chose the correct answers for following questions. (1 Mark for each MCQ) 14

1. Which tag used to write JavaScript code with html?
 - A) <SCRIPT>
 - B) <STYLE>
 - C) <LINK>
 - D) <HEAD>
2. From below which type of CSS applied in single webpages?
 - A) Internal css
 - B) External css
 - C) Both A and B
 - D) Importing css
3. Who invented Javascript?
 - A) Denish Richie
 - B) Tim Berner Lee
 - C) Brendan Eich
 - D) None of above
4. What is use of indexOf() function?
 - A) It is use to extract part of string
 - B) It is use to give length of string
 - C) It is use to get index of string
 - D) None of above

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5. What is the correct HTML for referring to an external javascript file named file.js?
- `<script>file.js</script>`
 - `<script src="file.js" ></script>`
 - `<link rel="stylesheet" type="text/css" href="file.js">`
 - None of all
6. What is the correct JavaScript syntax to change the content of the HTML element below?
- ```
<p name="demo">This is a demonstration.</p>
```
- `Document.getElementByName ("p").innerText = "Hi";`
  - `#demo.innerHTML = "Hi!";`
  - `Document.getElement ("p").innerHTML = "Hi!";`
  - `Document.getElementById ("demo").innerHTML = "Hi!";`
7. What is full form of DOM?
- Document object model
  - Direct object model
  - Disc object model
  - None of all
8. Which event is use in JavaScript if want to call function on lost focus from textbox?
- onClick
  - onmouseover
  - onblur
  - onLoad
9. From below which is use for giving style to webpage?
- JavaScript
  - CSS
  - Htm1
  - None of above
10. What is output of below javascript code:
- ```
var s="I like webdesigning";
document. write(s.substr(7,3));
```
- Wd
 - Like
 - Web
 - None of above
11. What is full form of www?
- World wide web
 - World wider web
 - Word wide web
 - World width web
12. From below what is true for Bootstrap?
- It's a javascript libray
 - Its is css libray
 - It's framework
 - None of above

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X211YE9AA1AX211YE9AA1AX211YE9AA1AX211YE9AA1A

13. What is by default port number of http?
- 22
 - 23
 - 24
 - 25

14. Which function is use to do email validation?
- IndexOf()
 - Substr()
 - Slice()
 - Split()

Q.2

- What is CSS? Explain types of CSS with example.
- Explain <FORM> with its components.

OR

- Explain events in JavaScript with examples.
- Explain DOM in example.

Q.3

- Explain Client-side and Server-side scripting with example.
- Explain JavaScript string functions with example.

OR

- Explain Anchor tag in HTML.
- Explain logical operators in Javascript.

Q.4

- Explain Message box in JavaScript.
- Explain switch case with example.

OR

- Explain Date object with its methods in JavaScript.
- Explain table tag with example in html.

Q.5

- Write a JavaScript code reverse string from textbox.
- Write a JavaScript code to remove blank spaces from string which given by textbox.

OR

- Write a JavaScript code to do mobile number validation. (mobile number is 10 digits only)
- Write a JavaScript code to give message at particular location of webpage.

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2111000103050003
EXAMINATION NOVEMBER 2024
BACHELOR OF COMPUTER APPLICATIONS
(THIRD SEMESTER)
305-02-MOBILE APPLICATION DEVELOPMENT-I (OLD)

[Time: As Per Schedule]

[Max. Marks: 70]

Instructions:

1. Fill up strictly the following details on your answer book
 - a. Name of the Examination: **BACHELOR OF COMPUTER APPLICATIONS (THIRD SEMESTER)**
 - b. Name of the Subject: **305-02-MOBILE APPLICATION DEVELOPMENT-I (OLD)**
 - c. Subject Code No: **2111000103050003**
2. Sketch neat and labelled diagram wherever necessary.
3. Figures to the right indicate full marks of the question.
4. All questions are compulsory.

Seat No:

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Student's Signature

Q.1 Answer the following questions in short: (ANY SEVEN)

14

1. Give Difference between Fixed and wireless network.
2. What is Mobile Agent?
3. Explain Android Virtual Machine.
4. Explain JDK and it's important in android?
5. What is Comment in XML?
6. What is the use of Manifest.xml file in Android?
7. Define Document Prolog section in XML.
8. What is the use of isChecked ()?

Q.2 Answer the following. (ANY TWO)

14

- [A] What is Toggle Button? Explain it with its attributes and methods.
[B] Explain Android Activity Life cycle in detail.
[C] Explain Multiplexing with its types, advantages and disadvantages.

Q.3 Answer the following. (ANY TWO)

14

[A] Explain Characteristics and Uses of XML.

[B] Explain Components of Android Application.

[C] What is Toast class and how to display a message using Toast? Explain it with example.

Q.4 Answer the following. (ANY TWO)

14

[A] Explain Architecture of Android in detail.

[B] Explain XML Declaration and Rules of declaration.

[C] What is layout in android? Explain Liner Layout in detail.

Q.5 Answer the following. (ANY TWO)

14

[A] Explain Dalvik Virtual Machine with its working.

[B] Explain Wireless Application Protocol in detail.

[C] Explain Button Widget with its Event, Attributes and suitable example.

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EXAMINATION NOV-DEC - 2024
BACHELOR OF COMPUTER APPLICATIONS (NCP-NEP)
(THIRD SEMESTER)
VAC-BHARATIYA GYAN PARAMPARA

[Time: As Per Schedule]

[Max. Marks: 25]

Instructions:

1. નીચે દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fill up strictly the following details on your answer book
- a. Name of the examination : B.C.A. (NCP-NEP) (SEM. III)
- b. Name of the Subject : VAC-BHARATIYA GYAN
PARAMPARA
- c. Subject Code No : 2411000903070001
2. Sketch neat and labelled diagram wherever necessary
3. Figures to the right indicate full marks of the question.
4. All questions are compulsory.

Seat No:

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Student's Signature

English Version

[Max. Marks: 25]

Q.1. 7 – MCQ (2 Marks each) (Any 5 out of 7) (10)

1. What did Tavernier, a French merchant, note about muslin cloth in India in the mid-17th century?
(A) They were heavy and coarse
(B) They were so light that they were barely noticeable in the hand and almost transparent
(C) They were made of silk
(D) They were brightly colored
2. Which of the following is not one of the furnaces described by Vagbhata in 'Rasaratna Samucchaya'?
(A) Mahagajaputa (B) Gajaputa
(C) Varahaputa (D) Angar Koshti
3. What was destroyed by the Mughal invaders that severely impacted the Indian knowledge tradition?
(A) Indian trade routes
(B) Indian ports and shipping industry
(C) Libraries and educational institutions like Nalanda
(D) Indian agricultural systems

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[1 of 4]

X211Y4AF17BX211Y4AF17BX211Y4AF17BX211Y4AF17B

6. કયા વેદને વૈદિક યુગની સંસ્કૃતિ, જ્ઞાન અને વિજ્ઞાનને સમાવિષ્ટ જ્ઞાનના જ્ઞાનકોશ તરીકે વર્ણવવામાં આવે છે?
(A) ઋગ્વેદ (B) યજુર્વેદ
(C) સામવેદ (D) અથર્વવેદ
 7. વેદોને સમજવા માટે જરૂરી ઘટક તરીકે નીચેનામાંથી કોનો ઉલ્લેખ નથી?
(A) શિક્ષા (B) કલ્પ
(C) તંત્ર (D) જ્યોતિષ
- પ્ર.ર. નીચેના જવાબો લખો (15)
- પ્ર.ર. (અ) ટૂંકનોંધ લખો (૨ માંથી કોઈ પણ ૧) (05)
1. ભારતીય જ્ઞાન પરંપરામાં પશુચિકિત્સા
 2. ભારતના છ વેદાંગની સંક્ષિપ્તમાં ચર્ચા કરો.
- પ્ર.ર. (બ) ટૂંકનોંધ લખો (૨ માંથી કોઈ પણ ૧) (05)
1. ભારતીય જ્ઞાન પરંપરા હાસના કારણો
 2. નાટક સાહિત્ય
- પ્ર.ર. (ક) ટૂંકનોંધ લખો (૨ માંથી કોઈ પણ ૧) (05)
1. પ્રાચીન ભારતમાં કૃષિવિજ્ઞાન
 2. વાયિક પરંપરા સમજાવો.

***** END *****

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4. How many traditional life-cycle rituals or sacraments (sanskaras) are typically observed in Indian culture?
 (A) 8 (B) 12
 (C) 16 (D) 24
5. Who is considered to be the Adi Acharya of Ayurveda?
 (A) Indra and Dhanvantari (B) Chyavana and Janaka
 (C) The Ashvini Kumars (D) Sushruta and Charaka
6. Which Veda is described as an encyclopedia of knowledge encompassing Vedic-era civilization, culture, knowledge, and science?
 (A) Rigveda (B) Yajurveda
 (C) Samaveda (D) Atharvaveda
7. Which of the following is not mentioned as a component needed to understand the Vedas?
 (A) Shiksha (B) Kalpa
 (C) Tantra (D) Jyotisha

Q.2. Write Following Answers (15)

Q.2. (a) Short Notes (Any 1 out of 2) (05)

1. Veterinary Medicine in Indian Knowledge Tradition
2. Briefly discuss the six Vedangas of India.

Q.2. (b) Short Notes (Any 1 out of 2) (05)

1. Causes of Indian knowledge tradition
2. Drama literature

Q.2. (c) Short Notes (Any 1 out of 2) (05)

1. Agriculture in Ancient India
2. Explain oral tradition.

[2 of 4]

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X211Y4AF17BX211Y4AF17BX211Y4AF17BX211Y4AF17B

Gujarati Version [Max. Marks: 25]

Q.1. 7-MCQ (દરેકનો ૨ માર્ક્સ) (૭ માંથી કોઈ પણ ૫) (10)

1. 17મી સદીના મધ્યમાં ભારતમાં મલમલના કાપડ વિશે કેન્ય વેપારી ટેવર્નિયરે શું નોંધ્યું?
 (A) તે ભારે અને બરછટ હતા
 (B) તે એટલા હળવા હતા કે તેઓ ભાગ્યે જ હાથમાં અને લગભગ પારદર્શક હતા.
 (C) તે રેશમના બનેલા હતા
 (D) તે તેજસ્વી રંગીન હતા
2. 'રસરત્ન સમુચ્ચય'માં વાઙ્મય દ્વારા વર્ણવવામાં આવેલી ભક્તિઓમાંથી કઈ ભક્તિ નથી?
 (A) મહાગજપુટ (B) ગજપુટ
 (C) વરાહપુટ (D) અંગાર કોષ્ટી
3. મુઘલ આક્રમણકારોએ શું નષ્ટ કર્યું જેણે ભારતીય જ્ઞાન પરંપરાને ગભીર અસર કરી?
 (A) ભારતીય વેપાર માર્ગો
 (B) ભારતીય બંદરો અને શિપિંગ ઉદ્યોગ
 (C) પુસ્તકાલયો અને નાલંદા જેવી શૈક્ષણિક સંસ્થાઓ
 (D) ભારતીય કૃષિ પ્રણાલીઓ
4. ભારતીય સંસ્કૃતિમાં સામાન્ય રીતે કેટલા પરંપરાગત સંસ્કારો જોવા મળે છે?
 (A) 8 (B) 12
 (C) 16 (D) 24
5. આયુર્વેદના આદિ આચાર્ય કોને માનવામાં આવે છે?
 (A) ઈન્દ્ર અને ધન્વંતરી (B) ચ્યવન અને જનક
 (C) અશ્વિની કુમારો (D) સુશ્રુત અને ચરક

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2411000903022001
EXAMINATION NOVEMBER 2024
BACHELOR OF COMPUTER APPLICATIONS (NCP-NEP)
(THIRD SEMESTER)
MAJOR-2-OBJECT ORIENTED PROGRAMMING AND DATA
STRUCTURES (TH) (NEW)

[Time: As Per Schedule]

[Max. Marks:25]

Instructions:

1. Fill up strictly the following details on your answer book

- a. Name of the Examination: **BACHELOR OF COMPUTER APPLICATIONS (NCP-NEP) (THIRD SEMESTER)**
- b. Name of the Subject: **MAJOR-2-OBJECT ORIENTED PROGRAMMING AND DATA STRUCTURES(TH) (NEW)**
- c. Subject Code No : **2411000903022001**

2. Sketch neat and labelled diagram wherever necessary.
3. Figures to the right indicate full marks of the question.
4. All questions are compulsory.

Seat No:

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Student's Signature

Q.1 MCQ (5 out of 7)

5

1. By Default member of the class are _____ in Nature

- | | |
|--------------|------------|
| 1) Protected | 2) Private |
| 3) Public | 4) Static |

2. Which of Following is not the member of class?

- | | |
|--------------------|---------------------|
| 1) Static function | 2) Friend function |
| 3) Const function | 4) Virtual function |

3. Which Operator cannot be Overloaded

- | | |
|------|-------|
| 1) + | 2) == |
| 3) * | 4) :: |

4. The Postfix form of $A*B+C/D$ is _____

- | | |
|------------|------------|
| 1) ABCD+/* | 2) AB*CD/+ |
| 3) *AB/CD+ | 4) A*BC+/D |

2111000103030002
EXAMINATION NOVEMBER 2024
BACHELOR OF COMPUTER APPLICATIONS (THIRD SEMESTER)
DATABASE HANDLING USING PATHON

[Time: As Per Schedule]

[Max. Marks: 70]

Instructions:

1. Fill up strictly the following details on your answer book

- a. Name of the Examination : **BACHELOR OF COMPUTER APPLICATIONS (THIRD SEMESTER)**
- b. Name of the Subject : **DATABASE HANDLING USING PATHON**
- c. Subject Code No : **2111000103030002**

2. Sketch neat and labelled diagram wherever necessary.
3. Figures to the right indicate full marks of the question.
4. All questions are compulsory.

Seat No:

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Student's Signature

Q.1 Answer the following questions. (Attempt any Seven)

16

- 1) What are the primary advantages of using SQLite?
- 2) How does SQLite handle data types and type affinity?
- 3) What considerations should be made when handling CSV files in SQLite?
- 4) How to enable or disable a trigger in SQLite?
- 5) How to dump a specific table into a file in SQLite?
- 6) How do you dump an entire database into a file?
- 7) What is the purpose of a module in Python?
- 8) How to set the PYTHONPATH in environment?
- 9) What are some common DataFrame functions in Pandas, and how does the `describe()` function help summarize data?
- 10) What is central tendency measures?
- 11) How mean, median, and mode differ from one another?
- 12) Explain the different file modes available in Python when handling CSV files.

Q.2 Answer Following: (Any Two)

14

- Discuss the advantages and features of SQLite. How does its dynamic typing and type affinity contribute to its flexibility in data management?
- Explain the concepts of transactions in SQLite, including the processes of rollback and commit. How do these mechanisms ensure data integrity and consistency?
- Analyze various data filtering techniques available in SQLite, such as DISTINCT, WHERE, and LIKE. How do these filters enhance the query capabilities?
- Discuss the use of GROUP BY and HAVING in aggregating data, providing specific scenarios where they are applicable.

Q.3 Answer Following (Any Two)

14

- Explain the concept of modules in Python. How do modules help organize code, and what are the steps to use a module in Python effectively?
- Describe the role of 'PYTHONPATH' in Python. How does it influence module import, and how can you set 'PYTHONPATH' in different operating systems? Also, explain the concepts of Namespace and Scope in Python and how they are managed across modules.
- What are packages in Python, and how do they differ from modules? Describe the structure of a package and the purpose of '__init__.py' in package creation. Provide an example of creating and using a package in a Python project.
- Outline the steps to interact with SQLite database in Python. How is the 'sqlite3' module imported, and what functionalities does it provide for database management in Python.

Q.4 Answer Following (Any Two)

14

- Explain the different file modes in Python for working with text and CSV files. How do 'read', 'write', and 'append' modes differ when handling files?
- Describe the 'DictReader()' and 'DictWriter()' classes in Python's CSV module. How do these classes handle data in the form of dictionaries?
- Outline the process of handling CSV and Excel files using Pandas DataFrames. How can data be extracted from a CSV or Excel file, and how can it be written back to these file formats?

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[2 of 3]

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- Explain how to extract specific attributes (columns) and rows from a DataFrame in Pandas. How can filtering and selection be applied to retrieve particular data subsets? Provide examples to demonstrate the use of indexing and selection methods in Pandas.

Q.5 Write Short-Notes: (Any Two)

12

- Importance of Data Visualization using dataframe.
- Comparison of Bar, Line and scatter plot.
- Histogram and Barchart.

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X211Y47E0BEX211Y47E0BEX211Y47E0BEX211Y47E0BE

2111000103040002
EXAMINATION NOVEMBER 2024
BACHELOR OF COMPUTER APPLICATIONS
(THIRD SEMESTER)
OOPS AND DATA STRUCTURES

[Time: As Per Schedule]

[Max. Marks: 70]

Instructions:

1. Fill up strictly the following details on your answer book
 - a. Name of the Examination: **BACHELOR OF COMPUTER APPLICATIONS (THIRD SEMESTER)**
 - b. Name of the Subject: **OOPS AND DATA STRUCTURES**
 - c. Subject Code No: **2111000103040002**
2. Sketch neat and labelled diagram wherever necessary.
3. Figures to the right indicate full marks of the question.
4. All questions are compulsory.

Seat No:

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Student's Signature

Q.1 Answer the following in short:

14

- 1) Define the term class and object.
- 2) What is data hiding and encapsulation?
- 3) What is the condition to check for overflow situation in double ended queue?
- 4) How does new operator in C++ differ from malloc () in C?
- 5) What is pure virtual function?
- 6) What is data structure? List out its types.
- 7) What is recursion? Give one example of it.

Q.2 Answer the following in short: (Any TWO)

14

- 1) Explain the difference between procedural programming and OOPs.
- 2) What is Inheritance? Explain multilevel Inheritance with an example.
- 3) Explain function overriding with an example.

Q.3 Answer the following in short: (Any TWO)

14

- 1) Explain the concept of friend function with proper illustration.
- 2) Explain the use of public, private and protected access control with proper example.
- 3) Explain types of constructors with an example.

Q.4 Answer the following in short:

14

- 1) Define Stack. Write an algorithm to push and pop element in stack.

OR

- 1) Write an algorithm to convert Infix expression into Postfix form.
- 2) Explain stack and queue with an example.

Q.5 Answer the following in short:

14

- 1) Write a program to overload binary '+' operator using friend function.

OR

- 1) Write a program to add and delete elements in circular queue.
- 2) Write algorithms to perform insert and delete operations on simple queue.

2411000903033001
EXAMINATION NOVEMBER 2024
BACHELOR OF COMPUTER APPLICATIONS (NCP-NEP)
(THIRD SEMESTER)
MAJOR-3-WEB DESIGNING - I(TH)

[Time: As Per Schedule]

[Max. Marks: 25]

Instructions:

1. Fill up strictly the following details on your answer book
 - a. Name of the Examination: **BACHELOR OF COMPUTER APPLICATIONS (NCP-NEP) (THIRD SEMESTER)**
 - b. Name of the Subject: **MAJOR-3-WEB DESIGNING - I(TH)**
 - c. Subject Code No: **2411000903033001**
2. Sketch neat and labelled diagram wherever necessary.
3. Figures to the right indicate full marks of the question.
4. All questions are compulsory.

Seat No:

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Student's Signature

Q.1 MCQ (Any 5 out of 7)

5

1. Find one odd tag of HTML from following.
 - A. Table
 - B. Td
 - C. Tr
 - D. Form
2. How a nice basic table with stripes on rows with class styles of a table is generated?
 - A. Table
 - B. Table-striped
 - C. Table-bordered
 - D. Table-hover
3. Which of the following is not a valid JavaScript variable name?
 - A. 2names
 - B. first_and_last_names
 - C. FirstAndLast
 - D. None of the above
4. The correct syntax for referring to an external script called "vnsgu.js" is _____.
 - A. <script href=" vnsgu.js">
 - B. <script name=" vnsgu.js">
 - C. <script src=" vnsgu.js">
 - D. None of the above

5. The meaning of "this" keyword in JavaScript is
A. Reference of current object
B. Reference of previous object
C. Variable which contains value
D. None of the above

6. The output of the following JavaScript code will be _____
var pow=new Function("num1","num2","return
Math.pow(num1,num2)"); document.writeln(pow(2,3));
A. 8
B. 3
C. 6
D. Error

7. To which object does the confirm() method belongs to?
A. document
B. window
C. frame
D. date

Q.2 [A] Explain different Form Elements along with their attributes. 4

OR

[A] Explain different ways of adding CSS. Give their advantages and disadvantages. 4

[B] Discuss different types of tables in Bootstrap. 4

OR

[B] Explain Bootstrap Grid. 4

Q.3 [A] Discuss the difference between Client-side and Server-side Scripting. 4

OR

[A] Explain different loops in JavaScript. 4

[B] What is Date Object? Explain getDate(), getDay(), getMonth(), setDate(), setMonth(), setDay() Date methods. 4

OR

[B] What is DOM? Explain writeln(), getElementById(), getElementsByName() DOM Methods. 4

Q.4 [A] Explain JavaScript Built-in functions. 4

OR

[A] Explain Alert(), Prompt(), Confirm() Dialogue boxes. 4

2411000903033003
EXAMINATION NOVEMBER 2024
BACHELOR OF COMPUTER APPLICATIONS (NCP-NEP)
(THIRD SEMESTER)
MAJOR-3-MOBILE APPLICATION DEVELOPMENT - I (TH)
(NEW)

[Time: As Per Schedule]

[Max. Marks: 25]

Instructions:

1. Fill up strictly the following details on your answer book
 - a. Name of the Examination: **BACHELOR OF COMPUTER APPLICATIONS (NCP-NEP) (THIRD SEMESTER)**
 - b. Name of the Subject: **MAJOR-3-MOBILE APPLICATION DEVELOPMENT - I (TH) (NEW)**
 - c. Subject Code No: **2411000903033003**
2. Sketch neat and labelled diagram wherever necessary.
3. Figures to the right indicate full marks of the question.
4. All questions are compulsory.

Seat No:

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Student's Signature

Q.1 Answer the following (Any 5)

5

- (1) Which component in the Android system is responsible for converting Java bytecode into a format that Dalvik can understand?
 - [a] Android Studio
 - [b] dx tool
 - [c] AVD Manger
 - [d] Java Compiler
- (2) Which of the following elements is mandatory in every AndroidManifest.xml file?
 - [a] <service>
 - [b] <receiver>
 - [c] <application>
 - [d] <provider>
- (3) Which of the following is NOT a characteristic of XML?
 - [a] case-sensitive
 - [b] tags are predefined
 - [c] human-readable
 - [d] support nested elements
- (4) Which method is used to display a Toast message in Android?
 - [a] show()
 - [b] display()
 - [c] makeText()
 - [d] toast()

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[1 of 3]

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(5) What interface must be implemented to handle button click events in Android?

- [a] View.OnClickListener
- [b] Button.OnClickListener
- [c] View.OnClickListeneer
- [d] Button.OnClickListeneer

(6) Which class is used to create an AlertDialog in Android?

- [a] Dialog
- [b] Alert
- [c] AlertDialog.Builder
- [d] Dialog Box

(7) Which method is used to check if a CheckBox is checked in Android?

- [a] isSelected()
- [b] isChecked()
- [c] isPressed()
- [d] isEnabled()

Q.2 [A] Explain android architecture in brief.

4

OR

[A] What is Emulator? How we can create AVD?

[B] Explain significance of Android Manifest.xml file with its components.

4

OR

[B] What is Activity? How new activity is created? How it differs from Layout?

Q.3 [A] What is XML? What is the use of XML in Mobile Application Development?

4

OR

[A] Define syntax and rules for declaring XML document.

[B] Explain Button Widget with its attributes.

4

OR

[B] Explain ToggleButton with its methods and attributes.

Q.4 [A] Differentiate CheckBox and RadioButton. What is the significance of RadioGroup?

4

OR

[A] Explain AutoComplete Text View with proper example.

5. If the variance of a data set is 16, what is the standard deviation?
 a) 4 b) 8 c) 16 d) -4
6. In a box plot, what does the box represent?
 a) The entire range of the data b) The interquartile range (IQR)
 c) The mean of the data d) The mode of the data
7. Which function is used to write a data frame into a CSV file?
 a) save.csv() b) write.csv()
 c) Store.csv()-() d) write. dataframe()

[B] Answer the following (Any Five)

5

- Write the relation between mean, median and mode.
- In a dataset, if the class has maximum frequency, then that class is _____ class of the set.
- What does the 'class ()' function do in R?
- What is the subset () function used for?
- Write mean formula for discrete observations in grouped data.
- How can you access a specific column of a data frame?
- Write probability range.

Q.2

[A]

1. Find mean for following data

X	15	16	17	18	19	20	21
F	3	10	15	10	8	3	1

2. The probability distribution of a random variable x is as follows:

x_i	-2	-1	0	1	2
$p(x_i)$	0.15	0.3	0.3	0.15	0.1

Find the value of following:

- (i) $E(x)$ (ii) $E(3x + 1)$ (iii) $E(x + 1)^2$ (iv) $V(x)$

OR

[A]

1. Find median for following data

Class	20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60
F	35	45	70	105	90	74	51	30

2. Assuming that boys and girls are equally probable find the number of families out of 1600 families each having 5 children, with (i) 3 boys (ii) 5 girls (iii) 2 or 3 boys (iv) all children of the same gender.

[B]

- If mean mark of 10 students is 30 out of 50. Later on it found that every student will get 4 extra marks then what is the new mean?
- For Poisson distribution if $p(1) = p(2)$ then find $p(3)$

OR

[B]

- If mean of 10 observation is 6.3, later on one observation 9 is found faulty then what is the new mean of remaining observations?
- Prove that mean of Poisson distribution is m .

Q.3

[A]

- How to use cut () function? Explain with example.
- Explain Slice Function with syntax and example.

OR

[A]

- Explain Basic commands of R.
- Using "marks.csv", Explain following topics.
 (i) How to import data into data frame from csv and excel file formats in R?
 (ii) How to add, remove and rename variables and attributes in R?

[B]

- State any six uses of R programming in Data Analysis.
- List characteristics of clean data.

OR

[B]

- List key aspects of data analysis.
- Write short note on common symptoms of messy data.