



ARPUTHACOLLEGEOFARTS&SCIENCE

(Affiliated to Bharathidasan University)

Arputha Nagar, Vamban - 622 303. Alangudi (T.k), Pudukkottai (Dt)

www.arputhacollege.in

Date:

DEPARTMENT OF COMPUTER SCIENCE VALUE ADDED COURSE (2021 – 2022) ANDROID APPLICATION DEVELOPMENT WITH KOTLIN SYLLABUS

TOTAL HRS: 57HRS Unit I: KOTLIN BASICS

Introduction to Kotlin – Benefits – Different formats of availability – Kotlin Basics: Operators – Data types – Typecasting – Strings – String template expressions – variables – Conditionals and Loops – lists and arrays – Null safety. Functions – Different parameter passing mechanisms – Compact functions – Lambda and Higher order functions

Unit II: CLASSES AND OBJECTS

Classes: Constructors, Properties and Access modifiers – Inheritance – Interface – Abstract classes - Extension functions - Special classes: Data class, Pair and Triple, Pair To, Enum, Singleton, Companion. Packages.

Unit III: INTRODUCTION TO ANDROID

Anatomy of Android App – Layouts – Resources – Activities – Gradle files – Accessibility – Working with different layout types – Data binding. App Navigation: Multiple activities and intent – App Bar, Navigation drawer and menus – Fragments – Navigation UI.

Unit IV: ANDROID APPLICATION ARCHITECTURE

Activity Lifecycle – Logging – Fragment Lifecycle – Tasks and Back-stack – App Architecture UI: View model – data binding – Live data and its transforms. App Architecture Persistence: Storage – Room library – Asynchronous programming – Co-routines – Testing DB. Recycler Viewer – Advanced binding

Unit V: NETWORKING AND UI DESIGN

Networking: Android permissions – Connect to, use internet resources – web services. UI Design: Android styling – Typography – Material Design and components – Localization.

REFERENCE BOOKS:

S.NO	NAME OF THE BOOK	AUTHOR
1.	Kotlin in Action	Dmitry Jemerov and Svetlana Isakova
2.	Android Development with Kotlin	Marcin Moskala and Igor Wojda
3	Extensive Reading: https://developer.android.com/courses/android-development-with-kotlin/course	COLLEGEOR



ARPUTHA COLLEGE OF ARTS AND SCIENCE - VAMBAN

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DEPARTMENT OF COMPUTER SCIENCE VALUE ADDED COURSE (2021 – 2022)

ANDROID APPLICATION DEVELOPMENT WITH KOTLIN

Students Name List

Time: 1 Hrs/day

Duration: 57 Hrs

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S.NO	STUDENT NAME	DEPARTMENT	REG. NO	SIGNATURE
1	M.FLORA	II-BCOM	CB20C70827	Miflora
2	A.JENITTA	II-BCOM	CB20C70828	A. Jenitto
3	M.KAVIYA DHARANI	II-BCOM	CB20C70829	M. Kariyadharan
4	M.SINDHU	II-BCOM	CB20C70835	M. sindhy
5	B.SUBHASHINI	II-BCOM	CB20C70837	B. Subhagini
6	S.AMALA CHINNA RANI	III-CS	CB19S193451	S. Amala chimolani
7	P.KASTHURI	III-CS	CB19S193456	P. Kasthu
8	R.NIVETHINI	III-CS	CB19S193462	RNivethini
9	R.ABIRAMI	II-CS	CB20S199435	R. Abirani
10	J.EBIBANIYA	II-CS	CB20S199440	JEbibany
11	V.FEVIN SANTHAYEE	II-CS	CB20S199441	
12	A.FENCY FLORA	I-M.SC (CS)	P21272325	v fainsanthage
13	A.MOUNIKA	I-M.SC (CS)	P21272326	A Mourika
14	A.RAJALAKSHMI	I-M.SC (CS)	P21272327	A. Rajalakehmi
15	R.VIJAYALAKSHMI	I-M.SC (CS)	P21272329	R. wyenyalaleshini
16	S.ANTONYAMMAL	II-M.SC (CS)	P20273101	Satratoryammal
17	M.SAHAYA DAISY	II-M.SC (CS)	P20273103	M. Schoup h
18	K.THULASIMANI	II-M.SC (CS)	P20273104	KiThu la Limas:
19	S.VETRISELVI	II-M.SC (CS)	P20273105	M. Scharpdairy K. Thulasimani
20	R.ELACKIYA	II- B.SC (MATHS)	CB20S378203	R. Elaiking
21	V.MAHADEVI	II -B.SC (MATHS)	CB20S378205	R. Elacking v. Nahaderi

22		II- B.SC (MATHS)	CB20S378206	5. Mesminos
-	S.MESMIN STEPHY	II -B.SC (MATHS)	CB20S378207	S. Pooraram
23	S.POORANAM		CB20S378209	S' POUIMON)
24	K.SINDHU	II -B.SC (MATHS)		K. Sindhu
24	U.ELIZABETH PENIKINA	II-M.SC (MATHS)	P20193101	
26	S.KALAIVANI	II-M.SC (MATHS)	P20193102 P20193103	S. Kalaivani
27	R.LOURDHU MARY	II-M.SC (MATHS)	P20193103	2. Lowthings J. Mariyamal
28	J.MARIYANNAL	II-M.SC (MATHS)	P20193105	D. Megra
29	P.MEENA	II-M.SC (MATHS)	P21192326	V. Devadharshini
30	V.DEVADHARSHINI	I-M.SC (MATHS)	P21192334	K'hamya
31	K.RAMYA	I-M.SC (MATHS)	P21192336	M. Sangavi
32	M.SANGAVI	I-M.SC (MATHS)	CB21S381672	J. Kaleo Surari
33	T.KALEESWARI	I-B.SC (MATHS)	CB21S381673	M. Madhina
34	M.MADHINA	I-B.SC (MATHS)		
35	R.PARVATHI	III-B.SC MB	CB19S410555	R. Parothi
36	S.POTHUMPONNU	III-B.SC MB	CB19S410556	S. Pothumponnu
37	S.PRAVEENA	III-B.SC MB	CB19S410559	M. Ruthradevi
38	M.RUTHRADEVI	III-B.SC MB		
39	P.THAMIZHINI	III-B.SC MB	CB20S411796	P. Tranizhini J. Sneka
40	J.SNEKA	II-B.SC MB	CB20S411798	J. Ineka
41	S.SUBITHA	II-B.SC MB	CB20S411790	f. subjetty
42	R.VINOTHINI	II-B.SC MB		R. Vinothini
43	F.MONIKA	I- B.SC MB	CB21S412897	J. Monika
44	V.POTHUM PONNU	I- B.SC MB	CB21S412900	V. Johnmpomu

VAMBAN PIN: 622303

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DEPARTMENT OF COMPUTER SCIENCE VALUE ADDED COURSE-2021-2022 ANDROID APPLICATION DEVELOPMENT WITH KOTLIN STUDENTS ATTENDANCE SHEET

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DEPARTMENT OF COMPUTER SCIENCE VALUE ADDED COURSE-2021-2022 ANDROID APPLICATION DEVELOPMENT WITH KOTLIN STUDENTS ATTENDANCE SHEET

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s.NO	STUDENT NAME	DEPARTMENT	00112121	1012111	1012117	2811212.1	1000	15/11/05	23/10/22	11/01/22	22/145s	19/01/22	201122	21012	24,042	66/10/10	2812133	CC114 08	यानाह	16/2/2	17,020	18/02/2	21/02/	221121	72/M2/	7 14101	25/02	2000	Hoo Hoo	W.
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13	8 K.THULASIMANI	II-M.SC (CS)	X	X	X	X	×	X	2	X	X	X	x)	(>	CX	X	X	X	X	a	×	X	a	×	X	X	x	X	54	
15	S.VETRISELVI	II-M.SC (CS)	X	X	X	×	X	a	2	X	X	x	x >	CX	×	X	×	X	×	X	x	×	X	x	×	a	X	X	53	
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2	V MAHADEVI	II -B.SC (MATHS)	X	X	X	x	X	X	a	X	a	a	4	X)	(x	·X	X	X	X	X	×	×	X	1	1	0	UX	0	1 48	
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ARPUTHA COLLEGE OF ARTS AND SCIENCE - VAMBAN (Affiliated to Bharathidasan University - Tiruchirappalli)

DEPARTMENT OF COMPUTER SCIENCE VALUE ADDED COURSE-2021-2022 ANDROID APPLICATION DEVELOPMENT WITH KOTLIN STUDENTS ATTENDANCE SHEET

			31	22	22	24	25	26 3	7 3	8 3	9 4	10 4	1 4	2 4	13	44	45	46	47	48	49	50	51	52	53	54	55	56	57	9 4	3	K
5.NO	STUDENT NAME	DEPARTMENT	2 12/2/102	12/21/12	2 151517	28112121	24/2/2/	11212	03/01/22	04 KN172	05/01/22	19/01/22	20/10/122	21/01/22	24/01/22	25/01/22	2710172	2810122	20/01/22	21/01/22	16/11/12	17/02/2	121222	21102122	22112112	22102122	24 10212	25/02/2	2810212	TOT-NO-		REMBRKS
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25	U.ELIZABETH PENIKINA	II-M.SC (MATHS)	X	X	X	X	×	X	X	CX	4	a	X	X	X	X	X		X	x	X	x	x	X	x	X	a	X	X	5		-
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28	J.MARIYANNAL	II-M.SC (MATHS)	×	×	X	×	X	X	X	X	x	X	X	X	a	X	X	X	×	X	X	X	X	X	X	X	A	â	X	5		+
29	P.MEENA	II-M.SC (MATHS)	×	X	X	×	x	X	X	1	X	X	a.	X	X	X	x	7	x	X	X	X	X	X	7	X	X	X	X	5	_	+
30	V.DEVADHARSHINI	I-M.SC (MATHS)	X	X	X	à	×	x	X	x	x	X	X	X	7	X	x	x	X	x	X	X	X	a	X	X	X	x	12	5		+
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34	M.MADHINA	1-B.SC (MATHS)	x	X	X	×	×	x	X	-	X	X	X	X	A	X	X	X	X	X	X	x	X	X	X	-	X	+	X	_		┿
35	R.PARVATHI	III-B.SC MB	X	×	a	7	X	X	X	X:	X	X	X	-	X	a	X	X	X	x	K	X	a	X	-	_	1	K	X	-		+
36	S.POTHUMPONNU	III-B.SC MB	x	X	X	1	X	r	X	X	X	a	x		a	a	x	X	×	X	X	X	a	0		7	X	17	+	4		+
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31	8 M.RUTHRADEVI	III-B.SC MB	x	X	×	X	×	X	X	X	X	X	x	X	Y	X	X	x	X	X	X	X	×	-	12	1	X	, 5	-	5	-	+
36	9 P.THAMIZHINI	III-B.SC MB	X	X	X	×	×	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	10	-	X	-	4	4	4	+	-	+
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4.	2 R.VINOTHINI	II-B.SC MB	x	×	X	X	×	X	X	X	X	Q	x	x	5	K	*	X	X	X	X	1 >	X	1	()	1 >	()	()	1	X 5	5	1
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ARPUTHACOLLEGEOFARTS&SCIENCE

(Affiliated to Bharathidasan University)

Arputha Nagar, Vamban - 622 303. Alangudi (T.k), Pudukkottai (Dt)

www.arputhacollege.in

Date :

DEPARTMENT OF COMPUTER SCIENCE VALUE ADDED COURSE (2021 – 2022) ANDROID APPLICATION DEVELOPMENT WITH KOTLIN REPORT

Build a series of apps in Kotlin, which is the language that the majority of professional Android developers use. Incorporate and convert Java code into Kotlin using Android Studio, and learn Kotlin language conventions along the way. You'll also learn how to write Kotlin code to make it callable from Java code.

The course started on 02.11.2021 and ended on 28.02.2022. The Academic Council Members appointed Dr. G. Thilipkumar as the course coordinator.

In its successful completion, they learn a lot of things. They will be able to work with Snack Bar, Menus, Activities, Navigation and Views Android Dialogs, Themes and Menus Toasts, and SQLite and Content Providers Location using GPS and Google Maps. Earn it from Multisoft Virtual Academy if you want to become an efficient programmer in Kotlin!

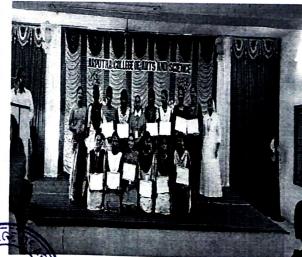
In its successful completion, they will be able to accomplish:

- How to use Android Studio to build your app
- How to run your app on a device or in the emulator
- How to add interactive buttons
- How to display a second screen

Out of 44 Students 44 Students were benefited by this course. Students who attended more than 45hours were provided certificates.

In this session learnt how to write Kotlin code to make it callable from Java code. Certificates were issued to all the participants after the completion of the course







(Affiliated to Bharathidasan University) Arputha Nagar, Vamban - 622303, Alangudi (TK), Pudukkottai (DT).

SKILL DEVELOPMENT PROGRAMME Value Added - Course Certificate

SUBCODE: 21CSVAAADWK

This is to Certify thatM.F.L.o.	RA
of IL-B.com	has completed Value Added Course on
Android appt development with Kotlin	onducted by the Department of during 2021-2022/2020. Semester.

Course
Co-Ordinator
COURES CO-ORDINATOR
Arputha College of Arts and Science
Arputha Nagar, Vamban,
Pudukkottai (Dt) • 622 303.

Head of the
Department
HEAD OF THE DEPARTMENT
DEPARTMENT OF COMPUTER SCIENCE,
ARPUTHA COLLEGE OF ARTS AND SCIENCE,
VAMBAN - 622 303.









ARPUTHA COLLEGE OF ARTS AND SCIENCE

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SKILL DEVELOPMENT PROGRAMME Value Added - Course Certificate

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COURES CO-ORDINATOR
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Arputha Nagar, Vamban,
Pudukkottai (Dt) - 622 303,

Head of the
Department
HEAD OF THE DEPARTMENT
DEPARTMENT OF COMPUTER SCIENCE,
ARPUTHA COLLEGE OF ARTS AND SCIENCE,
VAMBAN - 622 303.

Principal
PRINCIPAL

AMPUTHA COLLEGE OF ARTS & SCIENC
VAMBAN - 622 303.







ARPUTHA COLLEGE OF ARTS AND SCIENCE

(Affiliated to Bharathidasan University) Arputha Nagar, Vamban - 622303, Alangudi (TK), Pudukkottai (DT).

SKILL DEVELOPMENT PROGRAMME Value Added - Course Certificate

SUB CODE: 21CSVA AADWK

This is to Certify that R. PARVATH!	••••
of	
Ashaid apple Development with Kot line conducted by the Department of	
Computer Science during Semester.	

Course
Co-Ordinator
COURES CO-ORDINATOR
Arputha College of Arts and Science
Arputha Nagar, Vamban,

Department
HEAD OF THE DEPARTMENT
DEPARTMENT OF COMPUTER SCIENCE,
ARPUTHA COLLEGE OF ARTS AND SCIENCE,
VAMBAN : 622 303.

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Certificate

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ARPUTHA COLLEGE OF ARTS AND SCIENCE
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ARPUTHA COLLEGE OF ARTS & SCIENCVAMBAN - 622 303.







ARPUTHA COLLEGE OF ARTS AND SCIENCE, VAMBAN DEPARTMENT OF (COMPUTER SCIENCE) CERTIFICATE COURSE ASSESSMENT (2021-2022) ANDROID APPLICATION DEVELOPMENT WITH KOTLIN MULTIPLE CHOICE QUESTIONS

STUDENTS NAME: SUBJECT CODE: 21CSVAAADWK DURATION: 30 Min MAX MARKS: 50

ANSWER ALL QUESTIONS

- 1. Android is -
 - an operating system
 - a web browser
 - a web server
 - None of the above
- 2. Under which of the following Android is licensed?
 - OSS
 - Source forge
 - · Apache/MIT
 - None of the above
- 3. What is the syntax for creating a subclass in Kotlin?
 - Class Subclass: Superclass
 - Class Subclass extends Superclass
 - Class Subclass inherits Superclass
 - Class Subclass implements Superclass
- 4. For which of the following Android is mainly developed?
 - Servers
 - Desktops
 - Laptops
 - Mobile devices
- 5. Which of the following virtual machine is used by the Android operating system?
 - JVM
 - Dalvik virtual machine
 - Simple virtual machine
 - None of the above
- 6. What is the syntax for calling a method in Kotlin?
 - Object method()
 - Object function()
 - Object procedure()
 - Object call()
- 7. What is the keyword used to define a class in Kotlin?
 - Class
 - Struct
 - Object
 - Type



8. What is the keyword used to define an interface in Kotlin? Abstract Class Object Android is based on which of the following language? Interface Java

- C++
- None of the above

10. What is the keyword used to define a singleton class in Kotlin?

- Singleton
- Object
- Static
- Final

11. APK stands for -

- · Android Phone Kit
- Android Page Kit
- Android Package Kit
- None of the above

12. How many types of constructors available in Kotlin?

- One
- Two
- Three
- Four

13. What is the use of data class in Kotlin?

- · extract the basic data types
- delete the basic data types
- present the basic data types
- holds the basic data types

14. Is there any Ternary Conditional Operator in Kotlin like in Java?

- TRUE
- FALSE
- Can be true or false
- Cannot say

15. What is the syntax for declaring a variable as volatile in Kotlin?

- var x: Long? = nuil
- Volatile var x: Long?
- Volatile var x
- Volatile var x: Long? = null

16. Elvis Operator is used for handling null expectations in Kotlin

- FALSE
- Can be true or false
- Cannot say



17. All c	classes in Kotlin classes are by default?
• 1	PRIMIC
	realed
• 1	phytract
	final
18. Kot	lin was developed by?
•	IBM
• 1	NetBeans
• .	JetBrains
	Oracle
	at does API stand for?
• ,	Application Programming Interface
•	Android Programming Interface
•	Android Page Interface
	Application Page Interface
20. Ko	tlin is a statically-typed programming language which runs on the?
	JCM
•	JVM
•	JPM
•	JDM
	tich file extension is used to save Kotlin files?
	.java
	.kot
	.kt
•	.kotlin
	22. Does Kotlin support primitive Datatypes?
	Yes
	No .
•	Can be yes or no
•	Can not say
	hat is an immutable variable?
•	A variable that can be changed
•	A variable used for string interpolation
	A variable that cannot change, read-only
	None of the above
	helps to iterate through a range.
	perator
	Ranges operator
	Or operator
	Conditional operator
	otlin is interoperable with Java because it uses JVM bytecode. Yes
	No.
	Can be yes or no
•	Can not say
	[a](IQAC).€

DIPLOMA IN COMPUTER APPLICATIONS (DCA) ANSWER KEY

- 1. an operating system
- 2. Apache/MIT
- 3. Class Subclass: Superclass
- 4. Mobile devices
- 5. Dalvik virtual machine
- 6. Object method ()
- 7. Class
- 8. Interface
- 9. Java
- 10. Object
- 11. Android Page Kit
- 12. Two
- 13. holds the basic data types
- 14. FALSE
- 15. Volatile var x: Long? = null
- 16. TRUE
- 17. final
- 18. JetBrains
- 19. Application Programming Interface
- 20. JVM
- 21. .kt
- 22. No
- 23. A variable that cannot change, read-only
- 24. Ranges operator
- 25. Yes



ARPUTHA COLLEGE OF ARTS AND SCIENCE, VAMBAN DEPARTMENT OF (COMPUTER SCIENCE)
CERTIFICATE COURSE ASSESSMENT (2021-2022)
ANDROID APPLICATION DEVELOPMENT WITH KOTLIN MULTIPLE CHOICE QUESTIONS

STUDENTS NAME: R. ELACKIYA [II. B.S. MATHS]
SUBJECT CODE: 21CSVAAADWK

DURATION: 30 Min

MAX MARKS: 50

ANSWER ALL QUESTIONS

- 1. Android is
 - an operating system ~
 - · a web browser
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8. What is the keyword used to define an interface in Kotlin?	
Abstract	
• Class	
• Object	
9. Android is based on which of the following language?	
Java	-
• C++	
• C	
None of the above	
10. What is the keyword used to define a singleton class in Koti	in?
Singleton	
• Object	
• Static	
© Final	
11. APK stands for -	
Android Phone Kit	
Android Page Kit	
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None of the above	
12. How many types of constructors available in Kotlin?	
• One	
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17. All classes in Kotting .
17. All classes in Kotlin classes are by default?
• sealed
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(•) final
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18. Kotlin was developed by? IBM
NetBeans
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• Oracle
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20. Kotlin is a statically town
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• JCM
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21. Which file extension is made
21. Which file extension is used to save Kotlin files?
• .kot
(O) .kt
• .kotlin
22. Does Kotlin support primitive Datatypes? • Yes
O No
• Can be yes or no
• Can not say
23. What is an immutable variable?
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A variable that can be changed A variable made.
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A variable that cannot change, read-only None of the above
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And operator helps to iterate through a range.
· Ranges operator
Or operator
• Condition
Conditional operator Kotlin is interested.
25. Kotlin is interperable with Java because it uses JVM bytecode.
• No
• Can be yes or no
• Can not say
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(' ' ' ' ' ' ' '

ARPUTHA COLLEGE OF ARTS AND SCIENCE, VAMBAN DEPARTMENT OF (COMPUTER SCIENCE) GERTIFICATE COURSE ASSESSMENT (2021-2022) ANDROID APPLICATION DEVELOPMENT WITH KOTLIN MULTIPLE CHOICE QUESTIONS

STUDENTS NAME: P. PARVATHI [III-MICRO-BIO].

DURATION: 30 Min

MAX MARKS: 50

SUBJECT CODE: 21CSVAAADWK ANSWER ALL QUESTIONS

1. Android is -

an operating system

- a web browser
- a web server
- None of the above
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19. What does API stand for?
And does Art stand for?
Application Programming Interface Android Programming Interface
Trogramming Intended
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• Application Page 1
Application Page Interface Kotlin is a server of the server of
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tone
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25. Kotlin is interoperable with Java because it uses JVM bytecode.
• Yes
• No
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W.07 \\ \tag{2}
• Can not say

ARPUTHA COLLEGE OF ARTS AND SCIENCE, VAMBAN
DEPARTMENT OF (COMPUTER SCIENCE)
CERTIFICATE COURSE ASSESSMENT (2021-2022)
ANDROID APPLICATION DEVELOPMENT WITH KOTLIN
MULTIPLE CHOICE QUESTIONS

STUDENTS NAME: R. NIVETHINI LII B.Sc., CST SUBJECT CODE: 21CSVAAADWK

DURATION: 30 Min MAX MARKS: 50

ANSWER ALL QUESTIONS

- 1. Android is -
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/
• Object • Interface
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• C++
None of the above
 10. What is the keyword used to define a singleton class in Kotlin? Singleton
Object Static
• Final
11. APK stands for -
Android Phone Kit Android Page Kit
That old Page Kit
Android Package Kit None of the above
12. How many types of annual state of annual s
12. How many types of constructors available in Kotlin? One
© Two
• Three
• Four
13. What is the use of data class in Kotlin?
extract the basic data types
delete the basic data types
 present the basic data types
holds the basic data types
14. Is there any Ternary Conditional Operator in Kotlin like in Java?
• TRUE
Can be true or false
Cannot say
15. What is the syntax for declaring a variable as volatile in Kotlin?
var x: Long? = null
• Volatile var x: Long?
Volatile var x Volatile var x
 Volatile var x: Long? = null Elvis Operator is used for handling null expectations in Kotlin
TRUE
• FALSE
Can be true or false
· Cannot say

17. All	classes in Kutlin classes
•	classes in Kotlin classes are by default?
•	sealed
•	abstract
0	final
	tlin was developed by?
•	IBM
	NetBeans
	JetBrains
•	Oracle
19. Wh	at does API stand for?
•	Application B
	Application Programming Interface
-	Audivid Programming Intent
•	Audroid Page Interface
20 V	Application Page Interface
20. Ko	tlin is a statically-typed programming language which runs on the?
_	JCM
•	JVM
•	JPM
•	JDM
•	ich file extension is used to save Kotlin files?
	.java .kot
_	.kt
_	
	kotlin
	22. Does Motlin support primitive Datatypes? Yes
	No .
	,
	Can be year no
	Can not say
-3. W H	at is an immutable variable?
	A variable that can be changed
•	A variable used for string interpolation
•	variable that cannot change, read-only
24	None of the above
	helps to iterate through a range.
And ope	
_	Canges o stor
	Or opera
	Conditio perator
25. Kott	The state of the s
3 Y	8
• N	
• 0	an be year no
• C	an not



ARPUTHA COLLEGE OF ARTS AND SCIENCE - VAMBAN (Affiliated to Bharathidasan University - Tiruchirappalli)

DEPARTMENT OF COMPUTER SCIENCE

CERTIFICATE COURSE (2021–2022)

ANDROID APPLICATION DEVELOPMENT WITH KOITLIN

Students Mark List

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4	M.SINDHU	CB20C70835	II-BCOM	50	50
5	B.SUBHASHINI	CB20C70837	II-BCOM	50	49
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