



Kristu Jayanti College

AUTONOMOUS

Reaccredited A++ Grade by NAAC | Affiliated to Bengaluru North University

Bengaluru

SI.No.: 082360

Semester IV Programme MCA

Sec A

Reg. No.

2	2	M	C	A	A	1	7		
---	---	---	---	---	---	---	---	--	--

Course Code

M	C	A	B	0	4	B	4	1
---	---	---	---	---	---	---	---	---

Course Title

Software Testing Tools

Date of Exam

1	6	0	3	2	0	2	4
---	---	---	---	---	---	---	---

Exam

Mid term Examination 2024

PARTICULARS	MARKS OBTAINED	MAXIMUM MARKS

Student's Signature

Examiner's Signature with Date

OBVIOUS	MANIFEST
---------	----------

TOTAL MARKS

(1)

- 1) Describe Software Testing and different types of Software testing with necessary diagrams (8)

- 2) Test cases for following scenarios (12)

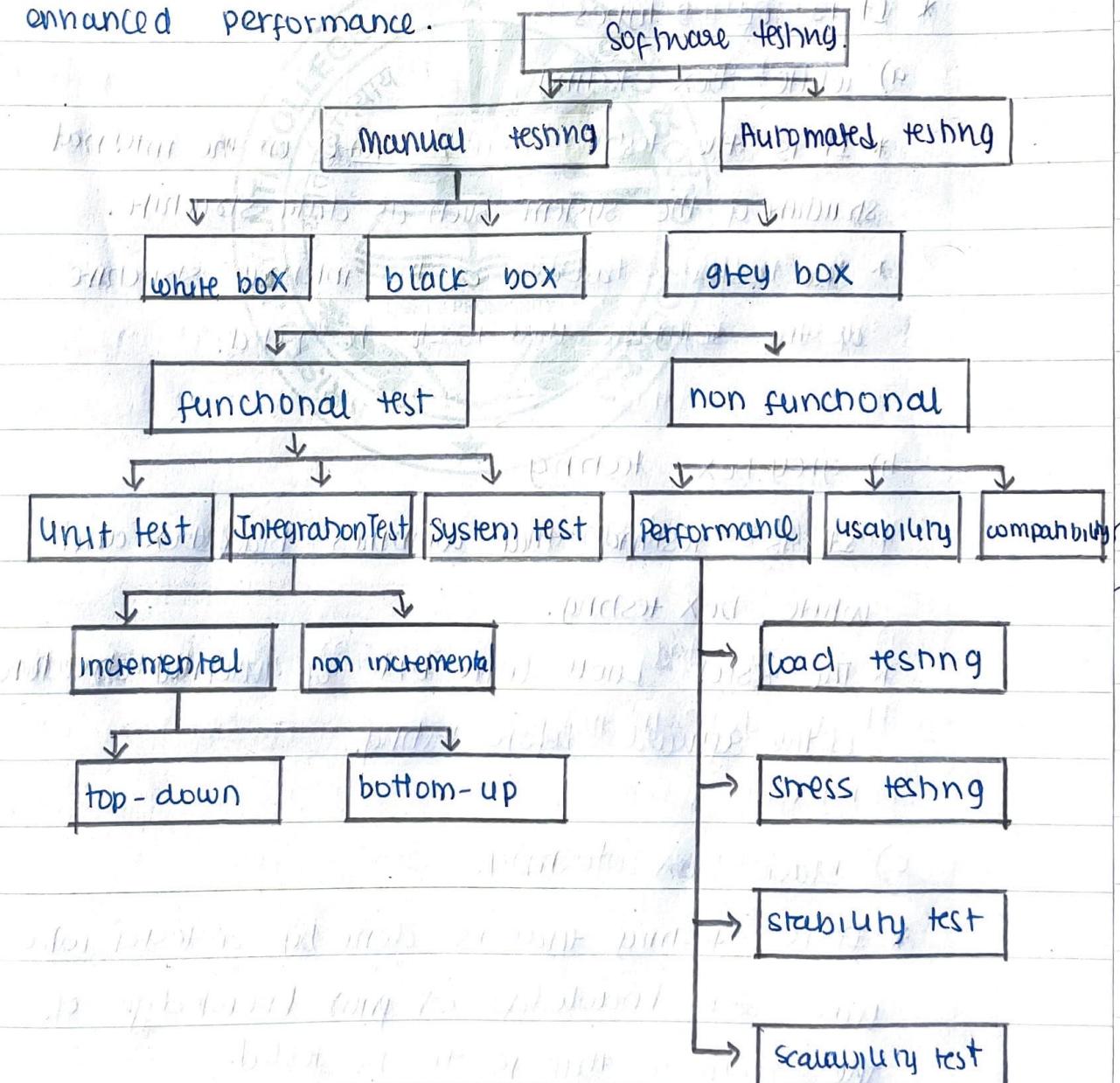
- searching for mobile phone
- selecting 32 gb ram
- adding selected mobile phone to cart
- remove mobile phone from cart

- 3) <http://regres.in/api/users> restful end points .

ans1

Software Testing

- * It is the quality check done on the software before it is deployed.
- * It checks for bugs and when it identifies defects it is then passed to developer team to fix the bug.
- * The process of quality check done on the project to check whether it is ready to be released.
- * When software testing is done, the benefit is to the end users for having a bug free software and enhanced performance.



1) white box testing

- * It is the testing done on the internal structure of the system such as data structure.
- * The tester is aware of the internal structure of the software that is to be tested.

1) manual testing

- * It is the testing that is done by tester by manually constructing test cases and test data.

* It is of 3 types

a) white box testing

- * It is the testing that is done on the internal structure of the system such as data structure.

- * The tester is aware of the internal structure of the software that is to be tested.

b) grey box testing

- * It is testing that combines black box and white box testing.

- * The tester know little bit of internal structure of the software before testing.

c) black box testing.

- * It is testing that is done by a tester who has zero knowledge or prior knowledge of the software that is to be tested.

2 types of black box testing

① Functional testing

* It tests the system's functional

* whether the system functions properly as the functional requirement.

→ It is of 3 types.

a) Unit testing

* It is done by testing each unit of code or each module, whether they are functioning as per the requirements.

b) Integration testing

* It is done by testing when combined with a unit, whether they can function properly or whether they create defect.

c) System testing

* It is done when all units are combined together as a system. It checks when its combined altogether if its functioning or not.

② non-functional testing

* It tests the non-functional requirement of the system, whether it is performing well or it can be scaled up or down on demand basis.

• non-functional requirement is of 3 types

a) performance testing

* It tests whether the system performs properly under certain condition, situation.

b) usability testing

* It tests whether the products are of use to the end users or it is not usable.

c) compatibility testing

* It tests whether the software is compatible with any other devices.

② Automated testing

* These testings are done by using another software, without the tester having to do it manually.

③ Integration testing is of 2 types

1) incremental

• It is done in incrementing way where after each sprint testing is

done

2) non incremental

• It does not increment, where it is done at the very end of the development.

7

incremental testing is of 2 types.

- a) top down → It goes by testing from top to down
- b) bottom up. → It goes by testing from bottom to up.

Performance testing is of 4 types.

a) load testing

- It tests whether the load can be able to be worked up by the software developed.

b) stress testing

- It tests the software by giving stressful conditions.

c) stability testing

tests whether the system is stable or not given the situation.

d) scalability testing

It tests whether the system can scale up and down based on the situation.