



**University of Engineering & Management, Kolkata**

**Term- II Examination, October - November, 2021**

**Programme Name: B.Tech in Computer Science**

**Semester: 5<sup>th</sup>**

**Paper Name: IT Workshop**

**Paper Code: PCC CS502**

**Full Marks: 100**

**Time: 3 hours**

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**Group A (20 marks)**

**Answer the following questions. Each question is of 2 marks.**

**Q. No. 1.**

- (i) Explain how to create dictionary in Python.
- (ii) What is docstring?
- (iii) What is “Command History” in MATLAB? How it’s interacting with MATLAB code?
- (iv) Why we use input(n) in MATLAB?
- (v) What is the output of feval('disp', 9) in MATLAB?
- (vi) What is virtualization?
- (vii) "There can be only one running activity at a given time". Justify your answer.
- (viii) How will you convert the Java bytecode into Dalvik bytecode?
- (ix) What is the use of *Intent.createChooser()* method?
- (x) How can you add a texture to a material component?

**Group B (30 marks)**

**Answer the following questions. Each question is of 5 marks.**

- Q. No. 2.** How does del operation work on dictionaries? Give an example.

**Q. No. 3.** What is logspace? Write a script in MATLAB to plot the value of  $\sin(x)$  and  $\cos(x)$  in same graph using title and legend (x can be considered as vector in logarithmic domain).

**Q. No. 4.** List some few common Exception in python and explain when they occur.

**Q. No. 5.**

**A.** How the help browser works in MATLAB? Differentiate clear and clc command.

**or**

**B.** Is an Android application portable? Justify.

**Q. No. 6.**

**A.** In Gizmos menu, how you can control Light and Camera.

**or**

**B.** What Why is HAXM so important in Android? Explain briefly.

**Q. No. 7.**

**A.** Describe CheckBox along with the methods of it.

**or**

**B.** E What is the difference between list and set.

### **Group C (50 marks)**

**Answer the following questions. Each question is of 10 marks.**

**Q. No. 8.** Write a program which accepts a sequence of comma-separated numbers from console and generate a list and a tuple which contains every number. Suppose the following input is supplied to the program: 34, 67, 55, 33, 12, 98. Then, the output should be: ['34', '67', '55', '33', '12', '98'] ('34', '67', '55', '33', '12', '98').

**Q. No. 9.** What is fplot function in MATLAB? Define isinf and isnan in MATLAB. Provide suitable examples using MATLAB script with arithmetic operation.

**Q. No. 10.**

**A.** Write a program which makes use of function to display all such numbers which are divisible by 7 but are not a multiple of 5, between 1000 and 2000.

**or**

- B.** What Calculate and plot the power supplied to a load as a function of the load resistance using MATLAB script.

**Q. No. 11.**

- A.** Explain WebView widget in Android with suitable example.

**or**

- B.** Explain all the components of Android architecture with diagram.

**Q. No. 12.**

- A.** Write a C# script in Unity to move a Game Object from one end to another end.

**or**

- B.** Describe ScrollView feature in Android in detail.