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Online Classes are Available for Clases 9 to 12- Comp. Sc., IP, AI & IT

PYTHON

ONLINE CLASSES COMPUTER SC. INFORMATICS PRAC.

SAMPLE PAPERS

PYTHON MCQs

MARKING SCHEME - SAMPLE PAPER - 3 (2025) **ARTIFICIAL INTELLIGENCE (417) CLASS - 10**

SuperNova-LearnPython, a YouTube channel dedicated to helping students to learn Python and computer science concepts.

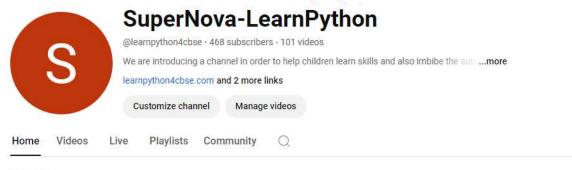
The channel covers various topics related to computer science, including Python programming, data file handling, computer networking, SQL and many more.

If you're looking for video descriptions, notes, assignments, and previous years' question papers related to Python and computer science for class 11 and 12, I recommend checking out the **SuperNova-LearnPython** channel on YouTube.

You can find the channel here.

Happy learning! .

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For You

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20 BEST COMPUTER SCIENCE PROJECT IDEAS FOR : Class 11 CBSE | List Manipulation in Python | List **CLASS 12 WITH GUIDELINES**

Functions | List Methods | | Class11 IP

List Functions / Methods

SuperNova@learnpython4cbse Presents

LIST MANIPULATION

index(), remove(), pop(), reverse() sort(), max(), min(), sum() Examples on function

12 | IP

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In one shot Class 12

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SAMPLE PAPERS PYTHON MCQs

Time Allowed: 2 Hours M. M.: 50

General Instructions:

- 1. Please read the instructions carefully.
- 2. This Question Paper consists of 21 questions in two sections: Section A & Section B.
- 3. Section A has Objective type questions whereas Section B contains Subjective type questions.
- 4. Out of the given (5 + 16 =) 21 questions, a candidate has to answer (5 + 10 =) 15 questions in the allotted (maximum) time of 2 hours.
- **5.** All questions of a particular section must be attempted in the correct order.
- 6. SECTION A OBJECTIVE TYPE QUESTIONS (24 MARKS):
 - i. This section has 05 questions.
 - ii. Marks allotted are mentioned against each question/part.
 - iii. There is no negative marking.
 - iv. Do as per the instructions given.
- 7. SECTION B SUBJECTIVE TYPE QUESTIONS (26 MARKS):
 - i. This section has 16 questions.
 - ii. A candidate has to do 10 questions.
 - iii. Do as per the instructions given.
 - iv. Marks allotted are mentioned against each question/part.

SECTION A – OBJECTIVE TYPE QUESTIONS (24 MARKS)

- 1. Employability Skills (1x4 = 4 Marks)
- I. Ramya traveled to Sweden from India to pursue her higher education. But she doesn't know how to speak Swedish (language of Sweden). Because of this, she was unable to find a part-time job. This is an example of

a. Interpersonal barrier

b. Physical barrier

c. Organisational barrier

d. Linguistic barrier

II. Which of the following activities helps in reducing stress?

a. Yoga

b. Walking

c. Meditation

d. All of these

III. Statement 1: A realistic goal is one that has no timeline or plans for execution.

Statement 2: Breaking down big goals into smaller parts will make the goal achievable.

a. Both Statement I and Statement II are correct

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c. Statement l	I is correct but	tement II are in Statement II is ut Statement II	incorrect			
IV. How can an an	tivirus protect y	our device?				
·	ect it from over	_		ase its performance	e.	
c. It can preve	ent data from g	getting corrupt.	d. It can backı	ıp data.		
V. Ritu leaves the	e company she	worked for ar	nd starts catering food	for marriage progr	ams. She is an	
•						
	a. Entrepreneur		b. Employee			
c. Cook	c. Cook d. Unemployed					
b. To save nat	e the value of s tural resources	self-resistance for everyone	amongst the people ability for future genera	ations		
Q.2 Answer any 5	5 questions ou	t of 6				
I. Chatbots and sm	art bots are rel	ated to the	domain of AI.			
a. Data Scienc	a. Data Science b. Machine Learning					
c. Computer \	c. Computer Vision d. Natural Language Processing (NLP)			P)		
II. Which of the fol	llowing is an ex	ample of AI?				
a. Air Conditio	- /	1	b. Automatic W	Vashing Machine		
c. Smart TV			d. Self Driving	Car		
III. In weather fore	ecasting system	s, to predict the	temperature, rainfall, e	tc., the type of techn	ology used is	
a. Computer \	√ision		b. Interpersor	nal Intelligence		
c. Natural Lan	guage Process	ing	d. Artificial Inte	elligence		
IV. An important t	echnology user	l for facial recog	nition in phones is	of Al.		
a. Data Scienc			b. Machine Le			
c. Computer Vi	sion			nguage Processing		
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	V. The full form of NLP is:				
	a. Natural Learner Process	sing	b. Natural Lea	nder Processing	
	c. Natural Listener Process	_	d. Natural Lang	guage Processing	
	VI. The AI Project Cycle is a solve the problem.	that a compa	ny must follow in order to	o derive value from an A	Al project and to
	a. Step-by-step process		b. Random pr	ocess	
	c. Reverse process		d. None of the		
	•				
	Q.3 Answer any 5 questions of	out of 6			
	QIS Allower dify 5 questions (5 4			
	I element helps us to u	nderstand and ca	tegorize who is directly a	nd indirectly affected by	the problem.
	a. Who		b. What		
	c. Where		d. Why		
	II. What is data in AI?				
	a. Facts		b. Instructions		
	c. Information		d. All of the ab	ove	
	III Data science is the process	of a divorce set of	i data through?		
	III. Data science is the process of a. Organizing data	oi a diverse set oi	b. Processing d	ata	
	c. Analyzing data		d. All of the ab		
	0.7 ma.y=m.g data		a.,, o, a., a.		
	IV. Clustering is an example of:				
	a. Supervised learning mode		b. Rule-based r		
	c. Unsupervised learning mo	odel	d. Reinforced learning	model	
	V. A graph displays information	n as a series of da	ta points connected by st	raight line segments.	
	a. Bar		b. Scatter		
	c. Histogram		d. Line		
	VI. domain of Artificial	Intelligence enab	les machines to see throu	ugh images or visual dat	a. process and
	analyze them on the basis of alg	•		•	•
	Q.4 Answer any 5 questions of	out of 6			
	I. Statement I: Object Detection	is the process of	finding instances of real-	world objects in images	
	Statement II: Object Detection f	•	_	•	
	a. Both Statement I and St	•	_	•	
	b. Statement I is True and	Statement II is F	alse		
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		Statement II is T				
d. Both State	ment I and Si	tatement II are F	alse			
II. RGB value	represent	s black color.				
III. Which of these	e is not an NL	P library?				
a. NLTK			b. NLP Kit			
c. Open NLP			d. NLP Suite			
IV. What is the pr	ocess of extra	acting emotions w	rithin a text data using NL	.P called?		
a. Sentiment A		J	b. Emotional Da			
c. Emotional Pi	rocessing		d. Emotional Cl	assification		
V and the						
		cur very trequent	ly in a corpus but do not	add any value to it.		
c. Roman Num	a. Special Characters		d. Useless Wor	b. Stopwords		
c. Noman Num	DCIS		u. Osciess Wor	us		
	all the proces	s of dividing a stri	ng into component word			
a. Regression			b. Word Token	ization		
c. Classification	1		d. Clustering			
Q.5 Answer any	5 auestions <i>(</i>	out of 6				
Q.5 Allswer dily	questions	out or o				
I. What is the ster	n of the word	l "Making"?				
a. Mak			b. Make			
c. Making			d. Maker			
II. The process of	understandin	g the reliability of	any Al model based on c	output by feeding the te	st dataset is:	
a. Data feed			b. Data Reliabil			
c. Model Evalu	ation		d. None of thes	se		
III The vesselt of th			disting and vality is you	and ad in.		
a. F1 Score	ie compansor	i between the pre	diction and reality is reco b. Confusion m			
c. Evaluation M	1odel		d. All of these	attix		
			u. / u. u. u. u.			
IV. Two conditions	when predic	tion matches witl	n reality are True Positive	e and		
V. What is the value	ue of F1 score	if the model is 10	00% accurate?			
a. 100			b. 1			
c. 0			d. 50			
BY: AMJAD KH	AN		VauTuka, https		Page 5 of 7	

Website: https://www.learnpython4cbse.com/ YouTube: https://www.youtube.com/@learnpython4cbse VI. When the prediction is True and reality is False, that condition is termed as:

a. TN b. TF c. FP d. FN

SECTION-B

Answer 3 out of 5 questions (Q.6 to 10) - $3 \times 2 = 6$ Marks

- Q.6. Explain the following terms:
- a) Group Communication
- **b)** Interpersonal Communication
- Q.7. What are the factors that affect self-confidence? (Any Two)
- Q.8. Aisha is searching for sports content online. How can she protect her data while using the internet?
- Q.9. List two qualities of successful entrepreneurs.
- Q.10. How can we achieve Sustainable Development?

Answer any 4 out of 6 questions (Q.11 to 16) - $4 \times 2 = 8$ Marks

- Q.11. Describe how machines are made Smart/Intelligent.
- Q.12. Name the 4Ws of problem canvases under the problem scoping stage of the AI Project Cycle.
- Q.13. What is the goal of data visualization?
- Q.14. Define pixel and explain its importance in digital images. (2 Marks)
- Q.15. Write the stem and lemma words for the following: (2 Marks)
 - Healing
 - Studying
- Q.16. Define Confusion Matrix. (2 Marks)

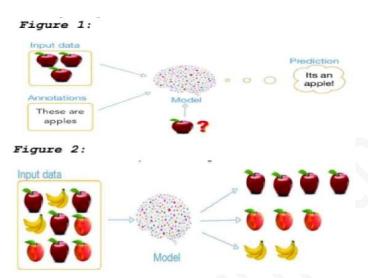
Answer any 3 out of 5 questions (Q.17 to Q.21) - $4 \times 3 = 12$ Marks

- Q.17. Discuss the following types of intelligence: (4 Marks)
- A. Linguistic Intelligence
- **B.** Spatial Visual Intelligence

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- C. Kinaesthetic Intelligence
- **D.** Musical Intelligence
- Q.18. Explain the following components of the AI Project Cycle: (4 Marks)
 - a) Problem Scoping
 - b) Data Acquisition
 - c) Data Exploration
 - d) Modelling
- Q.19. What is the difference between human language and computer language? (Any 4 points) (4 Marks)
- Q.20. Identify and explain the types of learning-based approaches in the given figure. (4 Marks)



Q.21. A social media company developed an AI model to predict user churn (cancel their account). During testing, the AI model come up with the following pridictions:

Confusion Matrix	Reality: Yes	Reality: No
Predicted: Yes	60	25
Predicted: No	5	10

- (i) Calculate percision, recall and F1 Score for churn prediction.
- (ii) How many total tests were performed in the above scenario?

LINK TO OPEN THE MARKING SCHEME OF THE SAMPLE PAPER -3

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