

**ST. PBN PUBLIC SCHOOL, GURUGRAM**  
**CLASS XI**  
**SAMPLE PAPER (UT-2)**  
**SUBJECT – ENGLISH**

**TIME: 2 HRS**

**MM: 50**

**GENERAL INSTRUCTIONS:**

1. **All questions are compulsory.**
2. **Read all instructions carefully.**

Q1. Read the following passage carefully:

**(10 Marks)**

1. The ocean is an integral part of Earth's biosphere, covering more than 70% of its surface. It regulates global climate, provides a home for diverse marine life, and serves as a critical source of food and oxygen. However, the ocean faces numerous threats, including pollution, overfishing, and climate change.
2. Plastic pollution is one of the gravest challenges. Millions of tons of plastic waste enter the ocean annually, endangering marine species and damaging ecosystems. Sea turtles often mistake plastic bags for jellyfish, while seabirds ingest small plastic pieces, causing internal injuries and starvation.
3. Overfishing disrupts the balance of marine ecosystems. Unsustainable fishing practices, such as trawling and the use of massive nets, deplete fish populations and harm other marine organisms. The extinction of certain species can have cascading effects throughout the ecosystem.
4. Rising sea temperatures and ocean acidification, resulting from increased greenhouse gas emissions, threaten coral reefs and other marine habitats. Coral bleaching, a process where corals lose their vibrant color and become vulnerable to death, is a direct consequence of this phenomenon.
5. Organizations and governments worldwide are implementing measures to combat these challenges. Beach clean-up drives, stricter fishing regulations, and reduced carbon emissions are critical steps toward ensuring a sustainable future for our oceans.

**Questions:**

- (i) Which of the following is the primary focus of the passage?
  - (a) The benefits of oceans in our lives
  - (b) The threats to oceans and their ecosystems
  - (c) The importance of marine tourism
  - (d) The process of coral bleaching
- (ii) According to the passage, what do sea turtles often mistake for jellyfish?
  - (a) Fishing nets
  - (b) Plastic bags

- (c) Coral fragments
  - (d) Small plastic bottles
- (iii) What does the term “unsustainable fishing practices” refer to?
- (a) Fishing with small nets
  - (b) Fishing practices that damage marine ecosystems
  - (c) Catching fish with traditional methods
  - (d) Fishing in freshwater bodies
- (iv) Identify the word from Para 2 that means “causing severe harm or suffering.”
- (a) Endangering
  - (b) Disrupting
  - (c) Cascading
  - (d) Acidification
- (v) Select the option that correctly relates to marine pollution’s impact as per the passage:
- (a) Marine pollution increases coral reef growth.
  - (b) Marine pollution harms marine life and damages ecosystems.
  - (c) Marine pollution boosts fishing practices.
  - (d) Marine pollution makes the ocean warmer.
- (vi) Why is overfishing described as harmful in the passage?
- (a) It affects freshwater ecosystems.
  - (b) It leads to an abundance of fish populations.
  - (c) It disrupts marine ecosystems and causes species extinction.
  - (d) It increases ocean acidity.
- (vii) Which word in the passage refers to a harmful process affecting corals?
- (a) Bleaching
  - (b) Overfishing
  - (c) Plastic
  - (d) Habitat
- (viii) What measures are being taken to protect oceans, as mentioned in the passage?
- (a) Eliminating fishing altogether
  - (b) Encouraging coral bleaching
  - (c) Reducing carbon emissions and stricter regulations
  - (d) Introducing more fishing activities
- (ix) What is the primary reason for rising sea temperatures, as per the passage?
- (a) Plastic pollution
  - (b) Increased greenhouse gas emissions

- (c) Coral reef expansion
- (d) Overfishing

(x) Which of the following can be inferred from the passage?

- (a) The health of oceans directly impacts global biodiversity.
- (b) Ocean pollution benefits marine life.
- (c) Coral reefs thrive in warmer waters.
- (d) Overfishing does not harm marine ecosystems.

Q2. Ramesh Gupta, residing at 48 Green Avenue, Chandigarh, wants to rent out his 3-BHK apartment in Sector 22, near the city center. Draft a suitable classified advertisement in not more than 50 words. (5 Marks)

Q3. Write a speech to be delivered during the morning assembly on the topic "The Role of Youth in Nation-Building." You are Aditya/Ananya. (10 Marks)

Q4. Rearrange the following words or phrases to form meaningful sentences: **(5 Marks)**

- (a) is / never / too / late / it / start / to
- (b) our / valuable / air / trees / to / atmosphere / are
- (c) the / choose / career / wisely / future / our / shapes
- (d) sharing / makes / life / joy / beautiful / and / caring
- (e) process / learning / throughout / a / life / is

Q5. Fill in the blanks with correct tense forms of the verbs given in brackets: **(4 Marks)**

- (a) She \_\_\_\_\_ (visit) her grandparents every summer.
- (b) The train \_\_\_\_\_ (depart) from the station 10 minutes ago.
- (c) By the time we reached, the meeting \_\_\_\_\_ (end).
- (d) The students \_\_\_\_\_ (prepare) for their exams all week.
- (e) He \_\_\_\_\_ (work) in this company since 2015.
- (f) They \_\_\_\_\_ (plan) to go on a vacation next month.
- (g) She \_\_\_\_\_ (read) a book when I entered the room.
- (h) He \_\_\_\_\_ (not finish) his homework yet.

Q6. Read the extract and answer the questions that follow: **(4 Marks)**

"I do not understand this child  
Though we have lived together now  
In the same house for years. I know  
Nothing of him, so try to build  
Up a relationship from how  
He was when small."

### Questions:

1. What does the speaker express about his relationship with the child?

2. What does the speaker mean by "I know nothing of him"?
3. Why does the speaker mention "how he was when small"?
4. What theme of the poem is highlighted in this extract?
5. Name the poem and the poet.

Q7. Answer the following questions in 30–40 words (any four):

**(12 Marks)**

1. How does the chapter "*Discovering Tut*" highlight advancements in technology?
2. Why did the narrator feel awkward while entering *The Address*?
3. What did Mrs. Fitzgerald say about taking control of one's family in *Mother's Day*?
4. Explain why the poet in *Father to Son* feels disconnected from his child.
5. What do you think made Rajendra realize that facts can be stranger than fantasies?

**ST. PBN PUBLIC SCHOOL**  
**UNIT TEST-II : SAMPLE PAPER**  
**CLASS-XI**  
**HISTORY**

**Time: 2 Hours**

**MM: 50**

**General Instructions:**

1. Answer all the questions.
2. Section A- Questions 1 to 9 are objective type questions carrying 1 mark each.
3. Section B- Questions 10 to 12 Short Answer Type Questions, carrying 3 marks each. Answer to each question should not exceed 60-80 words.
4. Section C- Question no.13 and 14 are Source based questions with three sub questions and are of 4 marks each.
5. Section D - Q to 15,16 and 17 are Long Answer Type Questions, carrying 8 marks each. Answer to each question should not exceed 300-350 words

**SECTION – A (1x9=9)**

Q1. Consider the following statements regarding the Renaissance and mark the correct answer:

- (i) It originated in Italy during the 14th century.
- (ii) It focused on humanism and secular ideas.
- (iii) The Church opposed Renaissance ideas entirely.
- (iv) Renaissance thinkers emphasized science over religion.

Choose the correct option:

- a) Only (i), (ii), and (iv)
- b) Only (ii) and (iii)
- c) Only (i) and (ii)
- d) All of the above

Q2. The "Tithe" in medieval Europe referred to:

- a) Land tax paid to the king
- b) One-tenth of agricultural produce paid to the Church
- c) A fee for military protection
- d) Revenue collected by nobles

Q3. Match the columns:

- |                          |                     |
|--------------------------|---------------------|
| A                        | B                   |
| 1. Renaissance Art       | a) Copernicus       |
| 2. Scientific Revolution | b) Michelangelo     |
| 3. Reformation           | c) Martin Luther    |
| 4. Printing Revolution   | d) Johann Gutenberg |

Options:

. (1) (2) (3) (4)

a) b a d c

b) c a b d

c) b a c d

d) d b a c

Q4. The book Utopia, which described an ideal society, was written by:

a) Erasmus

b) Thomas More

c) John Calvin

d) Machiavelli

Q5. The Protestant Reformation began in:

a) Spain

b) Italy

c) Germany

d) France

Q6. The famous invention by Galileo that significantly advanced astronomy was:

a) Printing Press

b) Compass

c) Telescope

d) Microscope

Q7. The Peace of Augsburg (1555) allowed:

a) Religious tolerance between Christians and Jews

b) Each German prince to choose the religion of his territory

c) The Pope to regain control over Protestant regions

d) Complete freedom of religion

Q8. What was a major reason for the rise of towns in medieval Europe?

a) Increase in feudal conflicts

b) Decline of trade networks

c) Agricultural surplus and growing commerce

d) Expansion of monastic institutions

Q9. The famous Divine Comedy was authored by:

a) Boccaccio

- b) Dante Alighieri
- c) Petrarch
- d) Leonardo da Vinci

**SECTION – B (3x3=9)**

- Q10. Explain how the Agricultural Revolution in medieval Europe impacted population and economy.
- Q11. Describe the role of monasteries in the cultural and educational life of medieval Europe.
- Q12. Why was Italy considered the birthplace of the Renaissance? Discuss any three factors.

**SECTION – C (4x2=8)**

Q13. Read the excerpt and answer the questions that follow:

"I condemn the excesses of the Church that seeks to dominate all aspects of life, and I argue for the return to the simplicity of the Bible and the teachings of Christ. Salvation comes through faith alone, not by the buying of indulgences." – Martin Luther

- a) Who is the author of this statement, and what movement did it inspire? (2)
- b) What was the significance of the Ninety-Five Theses in the history of Europe? (2)

Q14. Read the excerpt and answer the following questions:

"For I consider that in the heavens God has written upon the world the laws of motion and nature, not upon human authority. The sun does not revolve around the earth; instead, it is the earth that revolves around the sun." – Galileo Galilei

- a) Name the scientific theory described in this excerpt and its historical impact. (2)
- b) How did the Church respond to Galileo's discoveries, and why? (2)

**SECTION – D (8x3=24)**

- Q15. Describe the economic and agricultural transformations in Europe during the High Middle Ages.
- Q16. How did the Renaissance challenge medieval traditions? Highlight its impact on art, literature, and science.
- Q17. Analyze the causes and consequences of the Protestant Reformation in Europe.

**ST. PBN PUBLIC SCHOOL**  
**UNIT TEST-II : SAMPLE PAPER**  
**CLASS-XI**  
**POLITICAL SCIENCE**

**Time: 2 Hours**

**MM: 50**

**General Instructions:**

- All questions are compulsory.
- Question numbers 1-6 are multiple-choice questions of one mark each.
- Question numbers 7-10 are of 2 marks each. Answers to these questions should not exceed 50 words each.
- Question numbers 11-14 are of 4 marks each. Answers to these questions should not exceed 100 words each.
- Question numbers 15-16 are passage/cartoon/map-based questions. Answer accordingly.
- Question numbers 17-18 are of 6 marks each. Answers to these questions should not exceed 170 words.
- There is an internal choice in 6-mark questions.

**1- Multiple Choice Questions (1 Mark Each)**

**Q1. Where does the panchayat's system work?**

- a) Town
- b) City
- c) Village
- d) Country

**Q2. Which of the following states in India is the first one to implement Panchayati Raj?**

- a) Haryana
- b) Punjab
- c) Rajasthan
- d) UP

**Q3. Which body is responsible for the smooth functioning of local government in India?**

- a) Parliament
- b) State Election Commission
- c) Union Public Service Commission
- d) Planning Commission

**Q4. Who can acquire citizenship in India by naturalization?**

- a) All residents born in India.
- b) A foreigner who meets the criteria under the Citizenship Act.
- c) People of Indian origin only.
- d) Refugees seeking asylum in India.



Q5. Assertion (A): Nationalism fosters a sense of unity among citizens.

Reason (R): It is often associated with shared symbols and traditions.

- a) Both A and R are true, and R is the correct explanation of A.
- b) Both A and R are true, but R is not the correct explanation of A.
- c) A is true, but R is false.
- d) A is false, but R is true.

Q6. The concept of local self-government was strengthened in India through which constitutional amendment?

- a) 42nd Amendment
- b) 44th Amendment
- c) 73rd Amendment
- d) 86th Amendment

Short Answer Questions (2 Marks Each)

Q7. What are two key features that make the Constitution of India a living document?

Q8. List two challenges faced by local governments in India.

Q9. What are two responsibilities of an Indian citizen under the Constitution?

Q10. Explain how nationalism can both unite and divide people, with an example.

Short Answer Questions (4 Marks Each)

Q11. Discuss any four principles that make the Indian Constitution adaptable to changing circumstances.

Q12. Define citizenship and explain any two ways through which Indian citizenship can be acquired.

Q13. Highlight any four key elements that contribute to the development of nationalism.

Q14. Evaluate the effectiveness of local governments in addressing grassroots issues.

Passage/Cartoon-Based Questions

Q15. Read the following passage carefully and answer the questions:

"The Constitution of India is designed to be both flexible and rigid, allowing amendments through various methods while ensuring the sanctity of its basic structure. It adapts to the changing socio-political environment, ensuring that the needs of citizens and democracy are met effectively."

i) What does the flexibility of the Constitution ensure?

- a) Stability in governance
- b) Adaptation to change
- c) Both a and b
- d) None of the above

ii) Which part of the Constitution protects its basic structure?

- a) Fundamental Rights
- b) Directive Principles
- c) Preamble
- d) Amendments

iii) Name one amendment that brought significant social reform.

iv) How does the Constitution balance flexibility and rigidity?

Q16. Study the cartoon related to local governance and answer the questions:



i) What is the role of local government in India?

ii) Name two types of local government bodies in India.

iii) How do local governments empower marginalized communities?

Long Answer Questions (6 Marks Each)

Q17. Examine how the judiciary and the Parliament have contributed to making the Constitution of India a living document. Provide examples.

OR

Explain the reason for requiring special majority for amending the Constitution.

Q18. Describe how nationalism develops through shared culture, history, and political ideals. Support your answer with examples from India's struggle for independence.

OR

Explain the role of active and responsible citizens in strengthening democracy.

**ST. PBN PUBLIC SCHOOL**  
**UNIT TEST-II : SAMPLE PAPER**  
**CLASS-XI**  
**ECONOMICS**

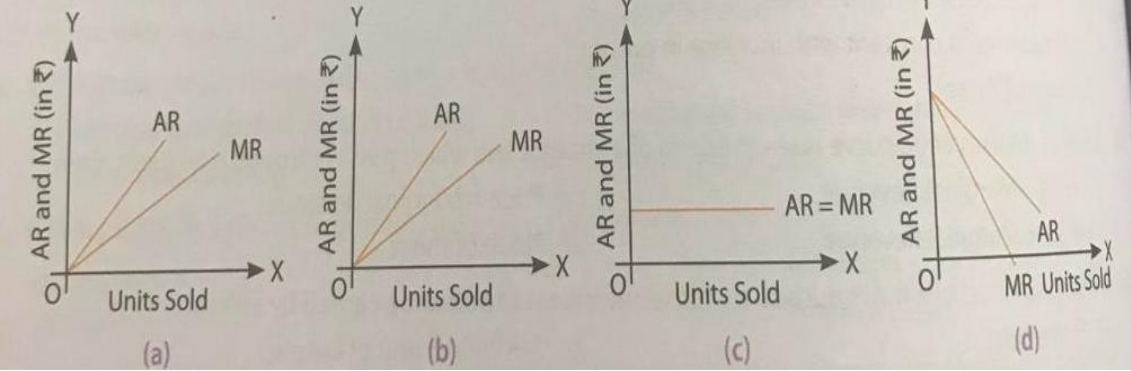
**TIME: 2 Hours**

**MM: 50**

**GENERAL INSTRUCTIONS:**

- All the questions are mandatory.
- This Question paper contains 20 questions.
- Questions 1-10 are Objective Type Questions, carrying 1 mark each.
- Questions 11-14 are Short Answer Questions, carrying 3 marks each (to be answered in 60-80 words).
- Questions 15-18 are Short Answer Questions, carrying 4 marks each (to be answered in 80-100 words).
- Questions 19-20 are Long Answer Questions, carrying 6 marks each (to be answered in 100-150 words).
- Read the questions carefully before attempting.

<b>1.</b>	Individual supply curve is _____ whereas market supply curve is _____. (Choose the correct alternative)	<b>1</b>				
	<table border="1" style="width: 100%;"> <tbody> <tr> <td style="text-align: center;">a) positive; negative</td> <td style="text-align: center;">b) negative; negative</td> </tr> <tr> <td style="text-align: center;">c) positive; positive</td> <td style="text-align: center;">d) negative; positive</td> </tr> </tbody> </table>	a) positive; negative	b) negative; negative	c) positive; positive	d) negative; positive	
a) positive; negative	b) negative; negative					
c) positive; positive	d) negative; positive					
<b>2.</b>	Choose the appropriate word and fill in the blank: In India the wholesale price index numbers are constructed on _____ basis. (weekly/monthly)	<b>1</b>				
<b>3.</b>	State whether the given statement is 'True' or 'False'.  Average revenue is the ratio of total revenue and price.	<b>1</b>				
<b>4.</b>	Define shut down point.	<b>1</b>				
<b>5.</b>	Increase in supply of a product is caused by: (Choose the correct alternative)	<b>1</b>				
	<table border="1" style="width: 100%;"> <tbody> <tr> <td style="text-align: center;">a) Improvement in technology</td> <td style="text-align: center;">b) Fall in prices of other goods</td> </tr> <tr> <td style="text-align: center;">c) Fall in prices of factors of production</td> <td style="text-align: center;">d) All of these</td> </tr> </tbody> </table>	a) Improvement in technology	b) Fall in prices of other goods	c) Fall in prices of factors of production	d) All of these	
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c) Fall in prices of factors of production	d) All of these					

6.	<p>The total revenue earned by selling 20 units is Rs. 700. Marginal revenue earned by selling 21<sup>st</sup> unit is Rs. 70. The value of total revenue earned by selling total 21 units will be _____.</p> <p>(Choose the correct alternative)</p> <table border="1" data-bbox="225 309 1361 465"> <tr> <td data-bbox="225 309 791 383">a) ₹ 721</td> <td data-bbox="791 309 1361 383">b) ₹ 720</td> </tr> <tr> <td data-bbox="225 383 791 465">c) ₹ 770</td> <td data-bbox="791 383 1361 465">d) ₹ 630</td> </tr> </table>	a) ₹ 721	b) ₹ 720	c) ₹ 770	d) ₹ 630	1
a) ₹ 721	b) ₹ 720					
c) ₹ 770	d) ₹ 630					
7.	<p>Which of the diagram correctly depicts the relation between AR and MR, when price falls with rise in output.</p> 	1				
8.	<p>_____ refers to the amount received by a firm from the sales of a given quantity of a particular good.</p> <table border="1" data-bbox="225 1144 1345 1301"> <tr> <td data-bbox="225 1144 783 1218">(a) Cost</td> <td data-bbox="783 1144 1345 1218">(b) Revenue</td> </tr> <tr> <td data-bbox="225 1218 783 1301">(c) Production</td> <td data-bbox="783 1218 1345 1301">(d) Functional cost</td> </tr> </table>	(a) Cost	(b) Revenue	(c) Production	(d) Functional cost	1
(a) Cost	(b) Revenue					
(c) Production	(d) Functional cost					
9	<p>Read the following statement given below and choose the correct alternative.</p> <p>Statement I- When price is constant, the revenue from every additional unit is equal to average revenue.</p> <p>Statement II- <math>AR=MR</math>, when price is constant.</p> <p>(a) Both are correct  (b) Both are incorrect  (c) Statement 1 is correct and statement 2 is incorrect  (d) Statement 1 is incorrect and statement 2 is correct</p>	1				

10.	<p>Read the following statements: Assertion (A) and Reason (R). Choose one of the correct alternatives given below:</p> <p>Assertion (A): In case of perfectly inelastic supply, supply curve is a vertical straight line supply curve.</p> <p>Reason (R): Supply doesn't change with change in price in case of <math>E_S=0</math>.</p> <p>Alternatives:</p> <p>(a) Assertion (A) and Reason (R) are true, and Reason (R) is the correct explanation of Assertion (A).</p> <p>(b) Both Assertion (A) and Reason (R) are true, and Reason (R) is not the correct explanation of Assertion (A).</p> <p>(c) Assertion (A) is true, but Reason (R) is false.</p> <p>(d) Assertion (A) is false, but Reason (R) is true.</p>	1																				
11.	<p>Define market supply. Explain the effect of improvement in technology on the supply of a good.</p> <p style="text-align: center;">OR</p> <p>Distinguish between change in supply and change in quantity supplied.</p>	3																				
12.	<p>Complete the table and answer the following questions:</p> <table border="1" data-bbox="225 1128 1362 1592"> <thead> <tr> <th>Output (Units)</th> <th>Price</th> <th>Total Revenue (₹)</th> <th>Marginal Revenue (₹)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>10</td> <td>10</td> <td>10</td> </tr> <tr> <td>2</td> <td>---</td> <td>18</td> <td>8</td> </tr> <tr> <td>3</td> <td>8</td> <td>24</td> <td>---</td> </tr> <tr> <td>4</td> <td>7</td> <td>---</td> <td>4</td> </tr> </tbody> </table> <p>a) Which concept of revenue is called price?</p> <p>b) Write the formula of calculating marginal revenue.</p>	Output (Units)	Price	Total Revenue (₹)	Marginal Revenue (₹)	1	10	10	10	2	---	18	8	3	8	24	---	4	7	---	4	3
Output (Units)	Price	Total Revenue (₹)	Marginal Revenue (₹)																			
1	10	10	10																			
2	---	18	8																			
3	8	24	---																			
4	7	---	4																			
13.	Define supply. Distinguish between supply and stock.	3																				
14.	On the basis of the data given below, determine the level of output at which the producer will be in equilibrium. Use the marginal cost-marginal revenue approach.	3																				

	<b>Output (Units)</b>	1	2	3	4	5	6	7																																			
	<b>Price</b>	7	7	7	7	7	7	7																																			
	<b>Total Cost (₹)</b>	8	15	22	28	33	40	48																																			
<b>15.</b>	<p>I. If MC is more than MR at a particular level of output, then how will a producer react to maximise the profits.</p> <p>II. A table showing TC and TR of a firm is given. Calculate MC and MR and find out the equilibrium level of output.</p> <table border="1" style="margin-left: 40px;"> <tr> <td>Output</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> <td>6</td> <td>7</td> <td>8</td> <td>9</td> <td>10</td> </tr> <tr> <td>TC</td> <td>45</td> <td>80</td> <td>95</td> <td>105</td> <td>135</td> <td>175</td> <td>225</td> <td>285</td> <td>360</td> <td>440</td> </tr> <tr> <td>TR</td> <td>40</td> <td>80</td> <td>120</td> <td>160</td> <td>200</td> <td>240</td> <td>280</td> <td>320</td> <td>360</td> <td>400</td> </tr> </table>									Output	1	2	3	4	5	6	7	8	9	10	TC	45	80	95	105	135	175	225	285	360	440	TR	40	80	120	160	200	240	280	320	360	400	<b>4</b>
Output	1	2	3	4	5	6	7	8	9	10																																	
TC	45	80	95	105	135	175	225	285	360	440																																	
TR	40	80	120	160	200	240	280	320	360	400																																	
<b>16.</b>	What is an index number? Explain any two limitations of Index Numbers.									<b>4</b>																																	
<b>17.</b>	<p>I. When the price of the commodity rises by Rs. 10 percent, its supply rises by 40 units. Its elasticity of supply is 1. Calculate its supply at original price.</p> <p>II. Read the following statements carefully and write 'True' and 'False' with a valid reason.</p> <p style="margin-left: 40px;">a) A cost saving technology shift the supply curve of a commodity towards left.</p> <p style="margin-left: 40px;">b) An increase in number of firms leads to 'Expansion in supply'.</p>									<b>4</b>																																	
<b>18.</b>	How is withdrawal of subsidy on the input used in the production of refined oil products likely to affect the supply and demand for refined oil products in India? Also explain its impact on the Indian economy.									<b>4</b>																																	
<b>19.</b>	'Maximization of profit implies equilibrium, but equilibrium does not always imply maximization of profits.' Do you agree with the statement. Explain by using diagram.									<b>6</b>																																	
<b>20.</b>	<p>From the following data, calculate consumer price index by using:</p> <p>(i) Aggregative Expenditure Method and (ii) Family Budget method.</p> <table border="1" style="margin-left: 40px;"> <tr> <td>Commodity</td> <td>Quantity consumed in the Year 2011 (in quintal)</td> <td>Price in 2011</td> <td>Price in 2022</td> </tr> <tr> <td>A</td> <td>6</td> <td>100</td> <td>120</td> </tr> </table>									Commodity	Quantity consumed in the Year 2011 (in quintal)	Price in 2011	Price in 2022	A	6	100	120	<b>6</b>																									
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B	8	80	90
C	1	70	70
D	2	120	115
E	20	12	15
F	1	160	170

**OR**

What are the consideration underlying the choice of base period in the construction of an index number?

**ST. PBN PUBLIC SCHOOL**  
**UNIT TEST-II : SAMPLE PAPER**  
**CLASS-XI**  
**COMPUTER SCIENCE**

**Time: 2 Hours**

**M.M:50**

**General Instructions:**

- *Attempt all the questions.*
- *Read the questions carefully and answer properly.*
- *Write question number before writing the answers.*

**SECTION- A**

**Choose the correct option and write in the answer sheet**

**(1 x 12 = 12)**

1. The sequential accessing of each of the elements in a list is called \_\_\_\_\_.  
(a) List indexing (b) List Traversal  
(c) List Slicing (d) List Accessing
2. Which of the following is considered as a tuple in python?  
(a) ('r' ,) (b) ('r')  
(c) ['r',] (d) {'r',}
3. A function that can be used to generate even random numbers between a particular range is :  
(a) randrange() (b) random()  
(c) randint() (d) none of these
4. Which of the following will give the output as : [23,2,9,75] of given list1=[1,23,6,2,14,9,81,75]  
(a) print(list1[1:7:2]) (b) print(list1[0:7:2])  
(c) print(list1[1:8:2]) (d) print(list1[0:8:2])
5. What will be the output of the following python code?  
>>> d= {"john": 40, "peter":45}  
>>> "john" in d  
(a) True (b) False  
(c) 1 (d) Error
6. To indicate position of an element from the end of list \_\_\_\_\_ is used.  
(a) len( ) (b) pop( )  
(c) negative indexing (d) slicing
7. Which of the following module in python provides mathematical functions?  
(a) random (b) math  
(c) statistics (d) csv
8. Consider, C1=("TEA POT", [1,2,'3'],'S',(3,4,6),"book",10)  
What will be the output of: **C1[1][2]\*3**  
(a) 444 (b) '333'  
(c) 'SSS' (d) 'book'
9. What will be the output of the following print() statement in Python?



```
>>> import statistics
>>> statistics.mode([21,24,21,45,56,67,21])
```

- (a) 24 (b) 21  
(c) 56 (d) 45

10. What is the value of x, if  $x = \text{math.factorial}(0)$ ?

- (a) 1 (b) 0  
(c) Error (d) None of these

11. Consider a declaration  $L = 91, 'Python', 44$

Name the data type of L?

- (a) List (b) Dictionary  
(c) Tuple (d) sets

12. Which command would you use to import only the randint function from the random module?

- (a) import random randint (b) import randint from random  
(c) from random import randint (d) from random import \*

**Q13 and 14 are ASSERTION AND REASONING based questions. Mark the correct choice as**

- a) Both A and R are true and R is the correct explanation for A  
b) Both A and R are true and R is not the correct explanation for A  
c) A is True but R is False  
d) A is false but R is True

13. **Assertion (A):** Keys of the dictionaries must be unique.

**Reason (R):** The keys of dictionary can be accessed using values.

14. **Assertion (A):** In Python, list is an immutable collection of data.

**Reason (R):** Mutable means that any change or alteration in data is mentioned in the same place. The updated collection will use the same address for its storage.

### SECTION B

(2x 4 = 8)

15. (i) What will be the output of following Python code?

```
list1 = [12, 32, 65, 26, 80, 10]
list1.sort()
print(list 1)

list1 = [12, 32, 65, 26, 80, 10]
list1.sorted()
print(list 1)
```

(ii) What will be the output of following Python code?

```
list1 = [2,4,6,8,10]
list2 = list1
list3 = list1.copy()
list1[4] = 12
list2[3] = 14
list1.remove(2)
print("List1 ",list1)
print("List2 ",list2)
print("List3 ",list3)
```

16. (i) TypeError occurs while statement 2 is running. Give reason. How can it be corrected? (1+1)

```
>>> tuple22 = (5)
>>> len(tuple22)
```

(ii) Find the errors and rewrite the correct statements.

- a) L1= (101)
- b) L2 = [Anny,Deny,Tiny]

17. Write Python expression for each of these mathematical expressions with respect to python modules:  
(1+1)

(i) 
$$\frac{\sqrt{a^3+b^3+c^3}}{\sqrt{a^2+b^2}}$$

(ii) 
$$\frac{x^4+y^5+z^6}{\sqrt{x^2 \times y^3 \times z^4}}$$

18. Write a Python program to print odd numbers of a list input by user. (1+1)

**OR**

Write a Python program to calculate mean of a given tuple of numbers. (2)

### SECTION C

**(3x 4 = 12)**

19. (i) What do you mean by tuple concatenation?

(ii) Differentiate between append( ) and extend( ) functions of list. (1+2)

20. Write a Python program to input any two tuples and swap their values. (3)

**OR**

Write a program to find the largest and second largest elements in a given list of elements.

21. (i) Lists and Tuples are ordered. Justify. (1+1)

(ii) Write a program in Python to implement the Linear Search technique using list in Python.

22. Write a program in Python to enter names of doctors and their respective department as input and store them in a dictionary. (3)

### SECTION D

23. What do you mean by sorting? Explain Bubble Sort technique implemented using list with an example. Write Python code also. (4)

24. (i) The record of a student (Name, Roll No., Marks in five subjects and percentage of marks) is stored in the following list: (4)

```
stRecord = ['Radha', 'A-36', [56, 98, 99, 72, 69], 78.8]
```

Write Python Statement to retrieve the following information from the list stRecord.

- Percentage of a student
- Marks of fourth subject
- Change the name of student from 'Radha' to 'Raman'.

- (ii) What is the difference between the outputs of the code#1 and code#2? Give reasons.

```
Code#1
t1 = (1, 2, 3)
t2 = (4, 5, 6)
t3 = t1 + t2
print("New tuple is:", t3)

Code#2
t1 = (1, 2, 3),
t2 = (4, 5, 6),
t3 = t1 + t2
print("New tuple is:", t3)
```

OR

(Option for ii part only)

Write a Python code to generate a random number between 1 to 20.

(2+2)

### SECTION E

25. Consider the following tuple 't1' and answer the following questions: (4)

```
t1 = (100, 200, "Global", 3, 3.5, "Exam", [1, 2], (30, 40), (3, 5, 3))
```

- |                    |                  |
|--------------------|------------------|
| (i) len( t1)       | (v) t1[5:]       |
| (ii) 20 not in t1  | (vi) t1.count(3) |
| (iii) t1[-8:-4]    | (vii) t1[2] * 2  |
| (iv) t1.index(3,6) | (viii) any(t1)   |

26. Amar Basket is a department store with a wide range of merchandise including groceries, fruits, vegetables and household accessories. It aims to develop a complete software for Billing, Inventory and Accounts management and to provide consumers a user-friendly interface to view item codes and prices of various items.

Write a program in python that repeatedly asks the user to enter product names and prices. Store all of them in a dictionary whose keys are product names and values are prices. Also write a code to search an item from the dictionary. (4)

**ST. PBN PUBLIC SCHOOL**  
**UNIT TEST-II : SAMPLE PAPER**  
**CLASS-XI**  
**PHYSICAL EDUCATION**

**TIME: 2 Hours**

**MM: 50**

**GENERAL INSTRUCTION :-**

1. All question are compulsory.
2. Question 1 to 12 carry 1mark.
3. Question 13 to 16 carry 2 mark.
4. Question 17 to 21 carry 3 mark.
5. Question 22 to 24 carry 5 mark.

1. Which one of the following physical fitness test items is used for children of age group 5 to 8 years and 9 to 18 years?

- |                         |                                   |
|-------------------------|-----------------------------------|
| (a) Plate Tapping Tests | (c) Flexibility Test              |
| (b) Body Mass Index     | (d) Cardiovascular Endurance Test |

2. In which test the length of various bones are measured and tested?

- |                         |                         |
|-------------------------|-------------------------|
| (a) Achievement tests   | (c) Anthropometric test |
| (b) Cardiovascular test | (d) Motor ability test  |

3. Demonstration of the test item is included in the following :

- |                            |                   |
|----------------------------|-------------------|
| (a) During Testing         | (c) After Testing |
| (b) In advance preparation | (d) All of these  |

4. What is the study of human movements called?

- |                 |                  |
|-----------------|------------------|
| (a) Anatomy     | (c) Biomechanics |
| (b) Kinesiology | (d) Physiology   |

5. How many bones are there in our lower limbs?

- |        |                   |
|--------|-------------------|
| (a) 60 | (c) 64            |
| (b) 62 | (d) None of these |

6. If the height of the child is in feet , it is classified under :

- |                 |                   |
|-----------------|-------------------|
| (a) Evaluation  | (c) Test          |
| (b) Measurement | (d) None of these |

7. There are two statements which are stated below and labelled Assertion(A) and Reason(R)  
**Assertion(A):** The Body Mass Index is also known as Quetelet Index because it was invented by Adolphe Quetelet.

**Reason(R):** With the help of BMI, it is to know whether one is underweight, normal weight, overweight or it the category of obesity.

In the context of above two statements, which one of the following is correct?

- a. Both (A) and (R) are true and (R) is the correct explanation of (A).
- b. Both (A) and (R) are true and (R) is not the correct explanation of (A).
- c. (A) is true, but (R) is false.
- d. (A) is false, but (R) is true.

8. A place where two bones join is called :

- (a) Joint
- (b) Corner
- (c) Blood
- (d) All of the above

9. The lungs oxygenate the :

- (a) Air
- (b) Water
- (c) Blood
- (d) Acid

10. Biomechanics does not help in improvement of players in terms of :

- (a) playing technique
- (b) learning process
- (c) punctuality
- (d) performance

11. Opposite movement for abduction is :

- (a) Circumduction
- (b) Supination
- (c) Pronation
- (d) Adduction

12. An example of Hinge joint is :

- (a) Ankle
- (b) Wrist
- (c) Elbow
- (d) Shoulder

13. What is meant by measurement?

14. Which is the longest and the smallest bone in human body?

15. What do you mean by anatomy?

16. Write any two types of movements.

17. **Case based question I:**

When we sit up or stand, the body tends to maintain the posture. This is the equilibrium and is multifactorial in origin. The body needs to maintain equilibrium not only at rest but also during movement. There are seven fundamental movements in the human body. These work in tandem to maintain balance and equilibrium at rest and while in motion. Losing this capability is incapacitating. The stability of the human body follows the principles of physics and these determine the degree of stability. Thus, a young child is less stable than an adult, so an adult can run faster and stand for long while maintaining equilibrium. Use of this equilibrium and related concept of centre of gravity finds great importance in sports.

(a) How do you define equilibrium? What are the different types of equilibrium? What are the seven fundamental movements?

- (b) What are the guiding principles determining degree of stability?
- (c) How is the concept of equilibrium and centre of gravity used in sports?
18. Explain any three functions of Skeletal System.
  19. Discuss any two guidelines for advance preparation.
  20. What do you understand by Ball and Socket joint?
  21. Explain any three principles of biomechanics.
  22. Explain the applications of axes and planes in body movement
  23. Explain any five importances of Anatomy and Physiology.
  24. Explain any five importances of Test, Measurement, and Evaluation in Sports.