



ARMY PUBLIC SCHOOL GWALIOR
CLASS - IX
ACADEMIC SESSION 2025-26



WORKSHEET REVISION (SELF –ASSESSMENT)

Subject: English

Assignment No.: 9

Allotment Date: 12 February 2026

Marks: 20+20=40

S.NO		MARKS	NATURE
01	“A slumber did my spirit seal,” says the poet. How does the poet react to his loved one’s death? Does he feel bitter grief? Or does he feel a great peace?	6	information
02	The passing of time will no longer affect her, says the poet. Which lines of the poem say this?	4	Understanding
03	Gerrard lives alone in a lonely cottage. An intruder, who is a criminal, enters his cottage. He intends to murder Gerrard and take on his identity. Does he succeed?	5	HOTS
04	How can we help beggars/ abolish begging?	5	HOTS
05	The passing of time will no longer affect her, says that the poet. Which lines of the poem say this? (A Slumber Did My Spirit Seal)	5	Analytical Skills
06	What is the meaning of “My cat is back and so was I”? Why does he say that he is also back?	5	Critical Thinking and Problem Solving
07	Suddenly it started raining and thunder rumbled. The animals, frightened by the streaks of lightening and the roar of thunder, broke loose and began to run. Write a story in 100-120 words which can have a different beginning and end but the middle must be as the above.	10	Evaluation

नववर्ष मंगलमय हो।

अरे! कितनी ठंडी रात है।

यदि वर्षा रुकती तो मैं घर जाता।

PART II
STANDARD (COMPETENCY BASED QUESTIONS)

4

दिए गए चित्र को देखकर 50-60 शब्दों में उनका वर्णन कीजिए।



5

Analytical Skill

5

निम्नलिखित में से किसी एक विषय पर 80 - 100 शब्दों में अनुच्छेद लिखिए।
जीवन में सत्संग का महत्त्व
अथवा
विद्यार्थी जीवन

5

Critical
Thinking and
Problem
Solving

6

निम्नलिखित प्रश्नों के उत्तर दीजिए-

निम्नलिखित का भाव स्पष्ट कीजिए-

(क) तू न थमेगा कभी

तू ने मुड़ेगा कभी

2. कुएँ में उतरकर चिट्ठियों को निकालने संबंधी साहसिक वर्णन को अपने शब्दों में लिखिए।

3. महादेव जी के किन गुणों ने उन्हें सबका लाडला बना दिया था?

9

Evaluation



ARMY PUBLIC SCHOOL GWALIOR
CLASS - IX



ACADEMIC SESSION 2025-26

WORKSHEET REVISION (SELF –ASSESSMENT)

Subject: Mathematics

Assignment No.: 9

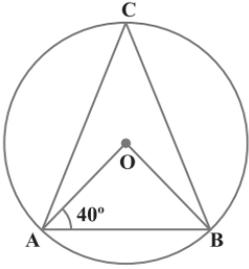
Allotment Date: 12 February 2026

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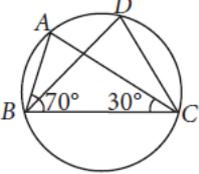
BASIC (GENERAL QUESTIONS)

SNO.	QUESTIONS	MARKS	NATURE
1.	A rational number between $\sqrt{2}$ and $\sqrt{3}$ is (A) $\frac{\sqrt{2}+\sqrt{3}}{2}$ (B) $\frac{\sqrt{2}\cdot\sqrt{3}}{2}$ (C) 1.5 (D) 1.8	1	KNOWLEDGE
2.	If $p(x) = x^2 - 2\sqrt{2}x + 1$, then $p(2\sqrt{2})$ is equal to (A) 0 (B) 1 (C) $4\sqrt{2}$ (D) $8\sqrt{2}+1$	1	UNDERSTANDING
3.	The edges of a triangular board are 6 cm, 8 cm and 10 cm. The cost of painting it at the rate of 9 paise per cm^2 is (A) Rs 2.00 (B) Rs 2.16 (C) Rs 2.48 (D) Rs 3.00	1	APPLICATION
4.	A cone is 8.4 cm high and the radius of its base is 2.1 cm. It is melted and recast into a sphere. The radius of the sphere is : (A) 4.2 cm (B) 2.1 cm (C) 2.4 cm (D) 1.6 cm	1	APPLICATION
5.	Two salesmen make equal sales during the month of August. In September, each salesman doubles his sale of the month of August. Compare their sales in September. State the axiom used.	2	ANALYTICAL/CONCEPTUAL
6.	The cost of levelling the ground in the form of a triangle having the sides 51 m, 37 m and 20 m at the rate of Rs 3 per m^2 is Rs 918.	2	PROBLEM SOLVING
7.	AD is a median of the triangle ABC. Is it true that $AB + BC + CA > 2 AD$? Give reason for your answer.	2	REASONING / ANALYTICAL
8.	At what point does the graph of the linear equation $x + y = 5$ meet a line which is parallel to the y-axis, at a distance 2 units from the origin and in the positive direction of x-axis.	2	ANALYTICAL / CONCEPTUAL

9.	If two chords of a circle are equally inclined to the diameter passing through their point of intersection, prove that the chords are equal.	2	CRITICAL THINKING / ANALYTICAL
10.	A field in the form of a parallelogram has sides 60 m and 40 m and one of its diagonals is 80 m long. Find the area of the parallelogram using Heron's formula.	3	APPLICATION / PROBLEM SOLVING
11.	Is it correct to say that in a histogram, the area of each rectangle is proportional to the class size of the corresponding class interval? If not, correct the statement.	3	ANALYTICAL / CRITICAL THINKING

	COMPETENCY BASED QUESTIONS		
12.	A pyramid is a solid figure, the base of which is (A) only a triangle (B) only a square (C) only a rectangle (D) any polygon	1	APPLICATION
13.	A grouped frequency distribution table with classes of equal sizes using 63-72 (72 included) as one of the class is constructed for the following data : 30, 32, 45, 54, 74, 78, 108, 112, 66, 76, 88, 40, 14, 20, 15, 35, 44, 66, 75, 84, 95, 96, 102, 110, 88, 74, 112, 14, 34, 44. The number of classes in the distribution will be : (A) 9 (B) 10 (C) 11 (D) 12	1	PROBLEM SOLVING
14.	In Figure, if $\angle OAB = 40^\circ$, then $\angle ACB$ is equal to : (A) 50° (B) 40° (C) 60° (D) 70°	1	ANALYTICAL / CRITICAL THINKING
			

15.	How many triangles can be drawn having its angles as 45° , 64° and 72° ? Give reason for your answer.	1	ANALYTICAL / CRITICAL THINKING
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16.	<p>ASSERTION :- In the given figure, $\angle ABC = 70^\circ$ and $\angle ACB = 30^\circ$. Then, $\angle BDC = 80^\circ$</p>  <p>REASON:- Angles in the same segment of a circle are equal.</p> <p>(a) Both Assertion and Reason are correct and Reason is the correct explanation of Assertion. (b) Both Assertion and Reason are correct but Reason is not the correct explanation of Assertion. (c) Assertion is correct but Reason is incorrect. (d) Assertion is incorrect but Reason is correct.</p>	1	CONCEPTUAL / UNDERSTANDING
17.	If a pair of opposite sides of a cyclic quadrilateral are equal, prove that its diagonals are also equal.	3	ANALYTICAL / PROBLEM SOLVING
18.	Plot the following points and check whether they are collinear or not : (i) (1, 3), (-1, -1), (-2, -3) (ii) (1, 1), (2, -3), (-1, -2) (iii) (0, 0), (2, 2), (5, 5)	3	ANALYTICAL / PROBLEM SOLVING
19.	In a parallelogram ABCD, AB = 10 cm and AD = 6 cm. The bisector of $\angle A$ meets DC in E. AE and BC produced meet at F. Find the length of CF.	4	SKILL BASED / APPLICATION / CRITICAL THINKING
20.	Show that $p - 1$ is a factor of $p^{10} - 1$ and also of $p^{11} - 1$.	5	ANALYTICAL / PROBLEM SOLVING



ARMY PUBLIC SCHOOL GWALIOR
CLASS - IX



ACADEMIC SESSION 2025-26

WORKSHEET REVISION (SELF –ASSESSMENT)

Subject: Science

Assignment No.: 9

Allotment Date: 12 February 2026

Marks: 20+20=40

PART I

BASIC (GENERAL BASED QUESTION)

S. NO.	QUESTIONS	MARKS	NATURE
1	MCQ BASED QUESTION Q1 Which state of matter has a definite shape and definite volume? A. Solid B. Liquid C. Gas D. Plasma Q2 The process of change from solid directly to gas is called: A. Condensation B. Sublimation C. Evaporation D. Freezing	1	Observation
		1	Understanding
2	Q3. A) Which state of matter has maximum intermolecular force? b) What is Tyndall effect? Q4. Explain how genetic improvement of crops helps in increasing food production.	2	Interdisciplinary
		2	Understanding
3	Q5 a) A train moves with a speed of 15 m/s for 20 seconds. Find the distance travelled. b) A force of 50 N acts on a body but produces no displacement. Q6 Farmers often use different methods to improve the yield and quality of crops. (a) What is hybridisation in crop improvement? (b) How does manure differ from fertiliser in improving soil fertility? Q7. a) Explain the effect of change of pressure on the boiling point of water b) Why does iron have the highest binding energy per nucleon? c) Why are atoms electrically neutral? Explain using the structure of an atom.	3	Evaluation
		3	HOT
		3	Understanding
4	Q8 a) On the basis of Thomson's model of an atom, explain how the atom is neutral as a whole. b) What do you think would be the observation if the α -particle scattering experiment is carried out using a foil of a metal other than gold? c) Helium atom has an atomic mass of 4 u and two protons in its nucleus. How many neutrons does it have?	5	Observation and Interdisciplinary

			Understanding
	PART II STANDARD(COMPETANCE BASED QUESTION)		
6	<p>ASSERTION REASON BASED QUESTION</p> <p>Directions: In each of the following questions, a statement of Assertion is given and a corresponding statement of Reason is given just below it. Of the statements, given below, mark the correct answer as:</p> <p>(a) Both assertion and reason are true and reason is the correct explanation of assertion. (b) Both assertion and reason are true but reason is not the correct explanation of assertion. (c) Assertion is true but reason is false. (d) Both Assertion and Reason are false.</p> <p>Q.1. Assertion (A): Excessive use of chemical fertilisers can reduce soil fertility. Reason (R): Chemical fertilisers increase the growth of all microorganisms in the soil.</p> <p>Q.2 Assertion (A): The nucleus of an atom contains most of its mass. Reason (R): Electrons have negligible mass compared to protons and neutrons.</p> <p>Q3 Assertion (A): Vermicompost improves soil fertility. Reason (R): Earthworms decompose organic matter and enrich the soil with nutrients.</p>	1 1 1	Real life application Understanding Information
7	<p>Q4 a) Why do we pull a carpet sharply to remove dust?.</p> <p>Q5 A 2 kg block rests on a frictionless horizontal surface. It is pulled by a constant horizontal force of 10 N for a distance of 5 m.</p> <p>(a) How much work is done by the force? (b) What is the change in the kinetic energy of the block? (c) What is the final speed of the block if it starts from rest?</p> <p>Q6. A)If the nucleus of an atom is about 10^{-15}m in radius, and the atom's radius is about 10^{-10}m, what does this tell you about the structure of an atom? b) Why is the nucleus stable even though it contains positively charged protons that repel each other?</p>	2 2 2	Real life relevance Reasoning Critical Thinking
8	<p>Q7. India's population has crossed 1.4 billion, increasing the demand for food every year. Farmers today use HYV seeds, fertilizers, irrigation and modern machines.</p> <p>a) Explain the various factors responsible for high food production in modern farming. b) How do these factors help in meeting the food demands of a growing population? c) Differentiate between manure and fertiliser.</p> <p>Q8 During nuclear research, scientists compare two isotopes used in energy production. Both nuclei have the same mass number (same total number of nucleons), but one nucleus has a higher binding energy per nucleon than the other.</p> <p>a) Which isotope would be considered more stable? Give reason. b) How does binding energy per nucleon determine the overall stability of a nucleus?</p>	3 3	Real life relevance Critical Thinking

9	<p>Q9. A farmer notices that after many years of using chemical fertilisers, his crop yield has started decreasing and the soil has become hard and less fertile. An agricultural officer advises him to switch to bio-fertilisers and organic manure.</p> <p>Answer the following:</p> <p>a) Why might continuous use of chemical fertilisers reduce soil fertility?</p> <p>b) How can bio-fertilisers help in maintaining long-term soil health?</p> <p>c) In what way does organic manure improve soil structure and water retention?</p>		<p>critical thinking</p> <p>analysing and reasoning</p> <p>Observation and explanation</p>



**ARMY PUBLIC SCHOOL GWALIOR
CLASS - IX**

ACADEMIC SESSION 2025-26

WORKSHEET REVISION (SELF –ASSESSMENT)

Subject: Social Science

Assignment No.: 9

Allotment Date: 12 February 2026

Marks: 20+20=40



(PART-A BASIC GENERAL QUESTIONS) (20 MARKS)

S.NO.	QUESTIONS	MARKS	NATURE
1.	<p>(MULTIPLE CHOICE QUESTIONS)</p> <p>(i). Which of the following components has been a major component of growth of population in India?</p> <p>A. Increase in death rates B. Decrease in birth rates C. Both A and B D. None of these</p> <p>(ii). Which of the following was Not a belief of liberals?</p> <p>A. Support for universal adult franchise B. Support for a representative, elected parliamentary government C. Opposition to the uncontrolled power of dynastic rulers D. Advocacy for an independent judiciary</p> <p>(iii). What was Robert's Owen contribution to socialist ideas?</p> <p>A. He advocated for the abolition of all forms of property B. He built a cooperative community called New Harmony in Indiana C. He opposed the idea of cooperatives D. He focused on increasing private enterprise</p>	1x6=6	INFORMATION

(iv). How can literacy become a serious obstacle for economic improvement?

- A. If there is no improvement in it
- B. If there is a low level of it
- C. If the government won't initiate schemes for the poorer section of the society where there are only a few literates
- D. All of these

(v). Many Nazi posters depicted Jews as "vermin" or "rats". What was the primary purpose of this specific visual propaganda?

- A. To promote animal welfare
- B. To dehumanize the Jewish population and justify "extermination"
- C. To encourage urban hygiene in German cities
- D. To show economic prosperity of Germany

(vi). The image of the burning Reichstag(German Parliament) in 1933 led to which major political move?



- A. The signing of Treaty of Versailles
- B. The birth of the Weimer Republic
- C. The suspension of civil rights via the Fire Decree
- D. The start of World War II

2.

(VERY SHORT ANSWER TYPE QUESTIONS)

2X1=2

UNDERSTANDING

Table 6.1 : The Magnitude and Rate of India's Population Growth

Year	Total Population (in million)	Absolute Increase in the Decade (in million)	Annual Growth Rate (%)
1951	361.0	42.43	1.25
1961	439.2	78.15	1.96
1971	548.2	108.92	2.20
1981	683.3	135.17	2.22
1991	846.4	163.09	2.16
2001	1028.7	182.32	1.97
2011	1210.6	181.46	1.64

Table 6.1 reveals that despite the decline in growth rates, the number of people being added every decade is steadily increasing. Why?

3.

(SHORT ANSWER TYPE QUESTIONS)

- (i) Discuss the role of FCI in maintaining food security in India?
- (ii) Look at the picture below and discuss the social and political conditions in Russia when the revolution occurred?



3X2=6

INTERDICIPILINARY

4.

(LONG ANSWER TYPE QUESTIONS)

Discuss the main causes of the rapid population growth in India?

OR

Discuss the role of the Green Revolution in helping India achieve self-sufficiency in food grains since Independence.

5X1=5

DESCRIPTIVE

5.

MULTIPLE CHOICE BASED QUESTIONS

1X5=5

HOTS



(i) Migrations change the number, distribution and composition of the population in

- (a) the area of departure
- (c) both the area of departure and arrival
- (b) the area of arrival
- (d) none of the above



(ii) A large proportion of children in a population is a result of

- (a) high birth rates
- (c) high death rates
- (b) high life expectancies
- (d) more married couples

(iii) What is the purpose of the Public Distribution System (PDS)?

- A. Providing healthcare facilities to the poor
- B. Promoting education among the poor
- C. Distributing essential food items to the poor at subsidized rates
- D. Creating employment opportunities for the poor

(iv) Which of the following is NOT a dimension of poverty?

- A. Income poverty
- B. Health poverty
- C. Education poverty
- D. Social poverty

(v) NPP 2000 puts emphasis on which needs?

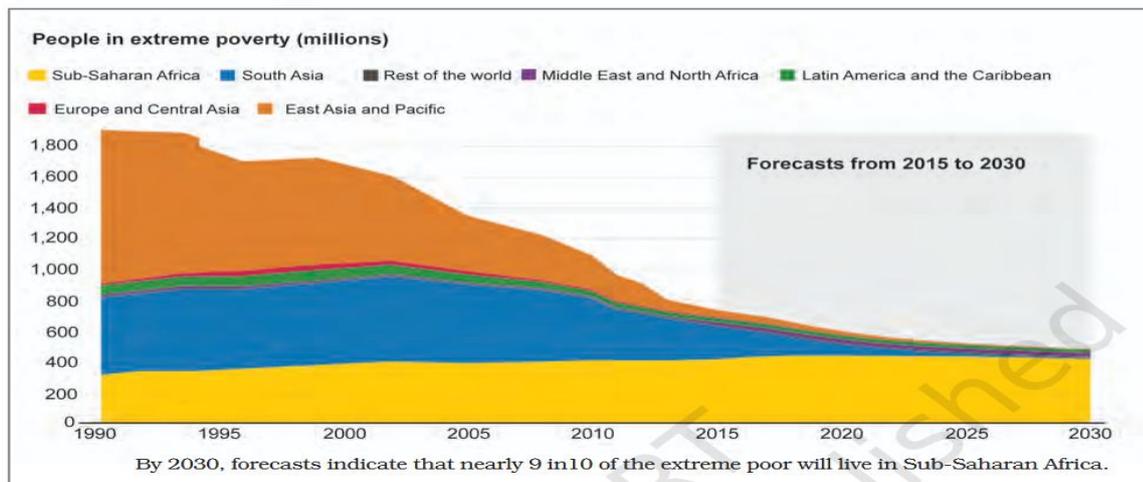
- A. Need to fulfill the nutritional requirements
- B. Need to prevent child marriages
- C. Need to educate adolescents about the risks of unprotected sex
- D. All of the above

6.	(VERY SHORT ANSWER TYPE QUESTION)	2X2=4	APPLI CATIO N BASE D
	<p>(i) "The people are important to develop the economy and society ."Explain.</p> <p>(ii) "Assam and most of the Peninsular states have moderate population densities." Give three reasons.</p>		

<p>7.</p>	<p>(SHORT ANSWER TYPE QUESTION)</p> <p>(i) What is the difference between internal and external (international) migration?</p> <p style="text-align: center;">OR</p> <p>What are the main features of the Mahatma Gandhi National Rural Employment Guarantee Act 2005?</p> <p>(i) Discuss multidimensional poverty index and its indicators?</p> <p style="text-align: center;">OR</p> <p>What could be the difference between consumption based expenditure Poverty Line and National Multidimensional Poverty Index?</p>	<p>3X2=6</p>	<p>REAL LIFE APPLICATION BASED</p>
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<p>8.</p>	<p>(CASE BASED TYPE QUESTIONS)</p> <p style="text-align: center;">Graph 3.3: Share of people living on a day, 2005–2019</p> <table border="1"> <caption>Data for Graph 3.3: Share of people living on a day, 2005–2019</caption> <thead> <tr> <th>Year</th> <th>South Asia</th> <th>Latin America and Caribbean</th> <th>Sub-Saharan Africa</th> <th>East Asia and Pacific</th> <th>China</th> </tr> </thead> <tbody> <tr> <td>2005</td> <td>135</td> <td>100</td> <td>90</td> <td>40</td> <td>20</td> </tr> <tr> <td>2010</td> <td>90</td> <td>75</td> <td>65</td> <td>25</td> <td>15</td> </tr> <tr> <td>2013</td> <td>65</td> <td>60</td> <td>55</td> <td>10</td> <td>5</td> </tr> <tr> <td>2015</td> <td>55</td> <td>50</td> <td>45</td> <td>5</td> <td>2</td> </tr> <tr> <td>2019</td> <td>45</td> <td>45</td> <td>40</td> <td>2</td> <td>1</td> </tr> </tbody> </table>	Year	South Asia	Latin America and Caribbean	Sub-Saharan Africa	East Asia and Pacific	China	2005	135	100	90	40	20	2010	90	75	65	25	15	2013	65	60	55	10	5	2015	55	50	45	5	2	2019	45	45	40	2	1	<p>4X1=4</p>	<p>CRITICAL THINKING</p>
Year	South Asia	Latin America and Caribbean	Sub-Saharan Africa	East Asia and Pacific	China																																		
2005	135	100	90	40	20																																		
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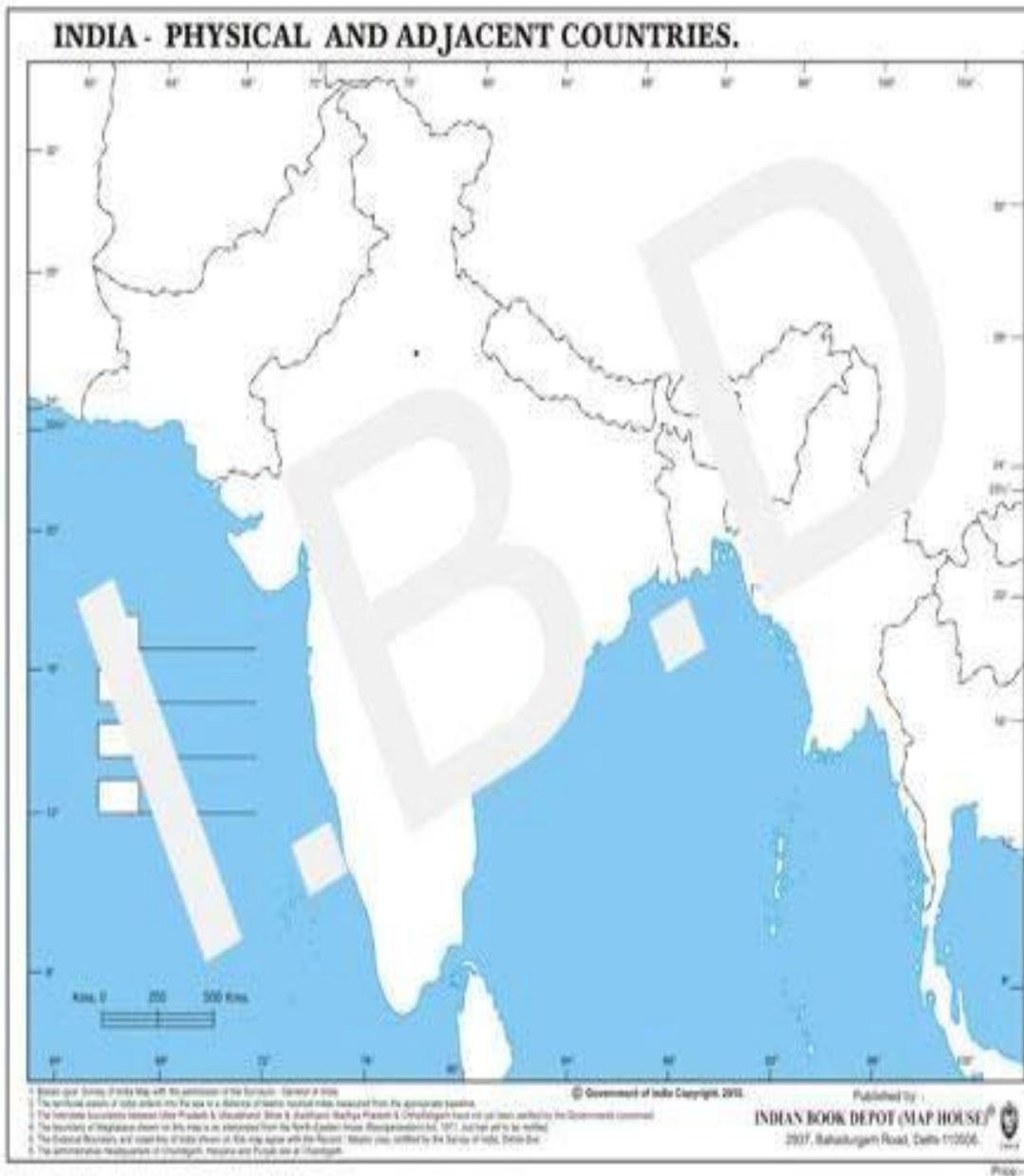
Graph 3.4: Number of poor by region in millions



Study Graphs 3.3 and 3.4 and do the following:

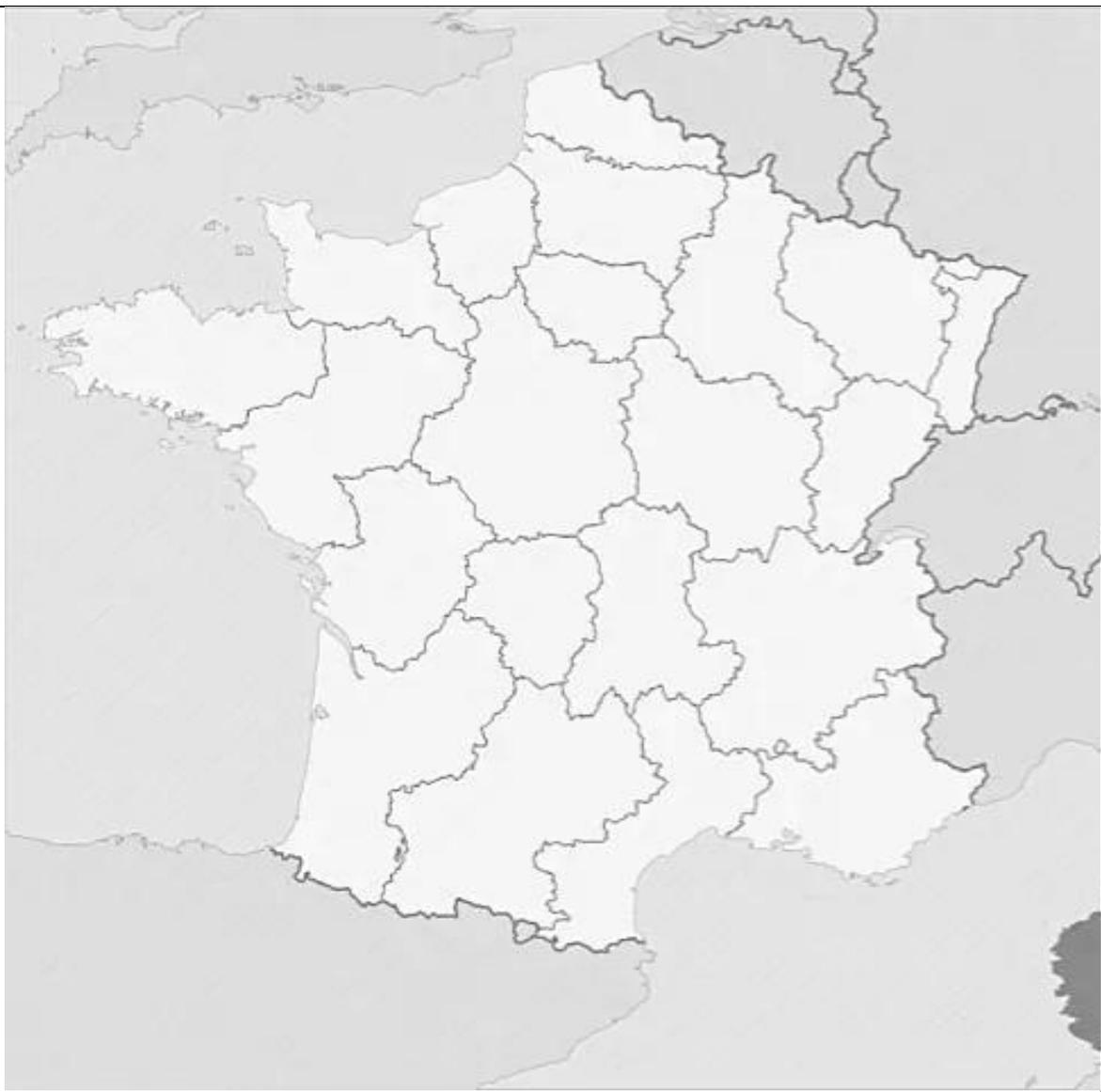
- Identify the areas of the world where poverty ratios have declined.
- Identify the area of the globe which has the largest concentration of the poor.
- Why do different countries use different poverty lines?

9.	<p style="text-align: center;">(Map based question)</p> <p>On an outline map of India, label the following.</p> <p>(i) Areas of Evergreen Forests</p> <p>(ii) Areas of Dry Deciduous Forests</p> <p>(iii) Two national parks each in Northern, Southern, Eastern and Western parts of the Country</p>		APPLI CATIO N BASE D



On an outline map of France, label the following :

- (i) Paris
- (ii) Marseilles
- (iii) Nantes
- (iv) Bordeaux





ARMY PUBLIC SCHOOL GWALIOR
CLASS - IX
ACADEMIC SESSION 2025-26



WORKSHEET REVISION (SELF –ASSESSMENT)

Subject: Computer

Assignment No.: 9

Allotment Date: 12 February 2026

S.NO.	QUESTIONS	MARKS(10)	NATURE
1	<p>Choose and write the correct option (MCQ):-</p> <p>(i) The unwanted messages via email or even by SMS are known as?</p> <p>a. Pams b. Spam c. Trojan d. Virus</p> <p>(ii) Which tool allows you to remove imperfections from an image?</p> <p>a. Patch b. Clone Stamp c. Type d. Dodge</p> <p>(iii) Which attribute is used to set the background colour of the web page?</p> <p>a. Backcolor b. Background colour c. Forecolor d. bgcolor</p> <p>(iv) A firewall can be?</p> <p>a. Software b. Hardware c. Both a and b d. None of the above</p>	0.5x4=2	Information
2	<p>Fill in the blanks-</p> <p>(i) _____ are data sent from a website and stored in a user's browser while a user is browsing a website.</p> <p>(ii) The wrap text options lies in the _____ menu.</p> <p>(iii) The _____ tools available in Photoshop are used to remove imperfections in a photograph.</p> <p>(iv) A _____ is mark-up, which indicates how the contents on a web page should look.</p>	0.5x4=2	Understanding
3	<p>Write short notes on following-</p> <p>(i) Dodge tool (ii) Cookies (iii) Cyber Safety (iv) Hyperlink</p>	½ x4=2	Critical Thinking
4	<p>Answer the following questions -</p> <p>1. What is a Cyber Threat? 2. While is the Spot Healing Brush tool? What does it do? 3. What is HTML? Write about tags and attributes. 4. Explain the role of Firewall in a computer.</p>	4x1=4	HOT



ARMY PUBLIC SCHOOL GWALIOR
CLASS - IX



ACADEMIC SESSION 2025-26
WORKSHEET REVISION (SELF –ASSESSMENT)

Subject: Multimedia

Assignment No.: 9

Allotment Date: 12 February 2026

S. No.	QUESTIONS	MARKS	NATURE
1	What do you understand by the term “Media” in multimedia?	1	Information
2	What is animation?	1	Understanding
3	Explain the rule of Golden ratio in photography.	1	Understanding
4	Explain types of lights in photography :- <ul style="list-style-type: none">➤ Rim Light➤ Back Light➤ Dark Light➤ Foot Light➤ Soft Light	5X1= 5	Analytical
5	Explain use of “Burn tool” in Digital design.	1	Understanding
6	What is role of Crop and Hand tool	2	Understanding
7	Define leading lines.	2	Information
8	What is green screen in photography?	2	Information
9	How can you shoot a photograph in dim light?	2	Information
10	What is rule of third (3x3) in photography?	2	Information
11	What is digital design?	2	Understanding
12	Explain the role of Layers in Photoshop.	2	Understanding
13	What is the difference between Texture and Pattern?	2	Understanding



ARMY PUBLIC SCHOOL GWALIOR

CLASS - IX

ACADEMIC SESSION 2025-26

WORKSHEET REVISION (SELF –ASSESSMENT)



Subject: Artificial Intelligence

Assignment No.: 9

Allotment Date: 12 February 2026

S.NO.	QUESTIONS	MARKS	NATURE
1	<p>(i) In classification problems, the machine is trained using a _____ dataset.</p> <p>a) Unlabelled</p> <p>b) Labelled</p> <p>c) New</p> <p>d) Stored</p> <p>(ii) _____ refers to AI technology used to swap faces or voices in videos.</p> <p>a) AI</p> <p>b) Deepfake</p> <p>c) Copyright</p> <p>d) Plagiarism</p> <p>(iii) In Generative Modelling , the model can generate structured data from the _____ dataset.</p> <p>a) Random noise</p> <p>b) Labelled</p> <p>c) Unlabelled</p> <p>d) Temporary</p> <p>(iv) _____ can be used to generate large volumes of content quickly and efficiently.</p> <p>a) Supervised learning</p> <p>b) Unsupervised learning</p> <p>c) Generative AI</p> <p>d) Deepfake</p> <p>(v) Creating portraits of non-existing people can be done using_____.</p>	1m x 5=5	Information

	<ul style="list-style-type: none"> a) Paint b) GANs c) VAEs d) RNNs 		
2	<ol style="list-style-type: none"> 1. What is the difference between training data and testing data? 2. What is Supervised and Unsupervised learning? 	2.5m X 2 = 5	Understanding and Problem Solving
3	<ol style="list-style-type: none"> 1. Write any three advantages of Artificial Intelligence in daily life. 2. What are Neural Networks in AI? Explain with a simple example. 3. Write any three disadvantages or risks of using AI. 	2m X 3 = 6	Critical Thinking
4	<ol style="list-style-type: none"> 1. What is Generative AI? Give two real-life examples. 2. What are AI Image Generators? How do they help students and designers? 3. Explain any three uses of Generative AI in education. 	3mX3= 9	HOT



ARMY PUBLIC SCHOOL GWALIOR
CLASS - IX



ACADEMIC SESSION 2025-26

WORKSHEET REVISION (SELF –ASSESSMENT)

Subject: Data Science

Assignment No.: 9

Allotment Date: 12 February 2026

S.NO.	QUESTIONS	MARKS	NATURE
1	<p>Fill in the blanks:</p> <p>(i) Data that is measured in numbers is called _____ data.</p> <p>(ii) Data that describes categories like colour or name is called _____ data.</p> <p>(iii) The part of computer that stores data permanently is called _____ memory.</p> <p>(iv) Pie charts are mainly used to show _____ of a whole.</p> <p>(v) The first step in data analysis is called _____ data collection.</p>	1m x 5=5	Information
2	<p>MCQs:</p> <p>(i) The most suitable charts for showing data distribution are:</p> <p>a) Histograms</p> <p>b) Scatterplots</p> <p>c) Bar charts</p> <p>d) All of these</p> <p>(ii) Which visualization method does not require any special software?</p> <p>a) Number chart</p> <p>b) Pie chart</p> <p>c) Bar chart</p> <p>d) Line chart</p> <p>(iii) Which of the following is NOT amongst the 5 V's of big Data?</p> <p>a) Value</p>	1m X 5 = 5	Understanding and Problem Solving

	<ul style="list-style-type: none"> b) Velocity c) Valiant d) Variety <p>(iv) The quantitative data for a student may include:</p> <ul style="list-style-type: none"> a) Number of pages b) Price c) Weight d) All of these <p>(v) Good data for analysis should be:</p> <ul style="list-style-type: none"> a) Accurate b) Relevant c) Up-to-data d) All of these 		
3	<ul style="list-style-type: none"> (i) What is Data Collection? Name any two methods of collecting data. (ii) What is Digital Footprint? How does it affect your online image? (iii) What is the difference between categorical data and numerical data? 	2m X 3 = 6	Critical Thinking
4	<ul style="list-style-type: none"> (i) What is Data Governance? Write any four basic components of a data governance system. (ii) What is Reinforcement Learning? Explain how an agent learns using reward and punishment with a simple example. (iii) What is Exploratory Data Analysis (EDA)? Why is EDA important before analyzing data? 	3mX3= 9	HOT