ARMY PUBLIC SCHOOL GWALIOR
CLASS - IX
ACADEMIC SESSION 2023-24
WORKSHEET (SELF –ASSESSMENT)

Subject: English   **Assignment No. : 4**
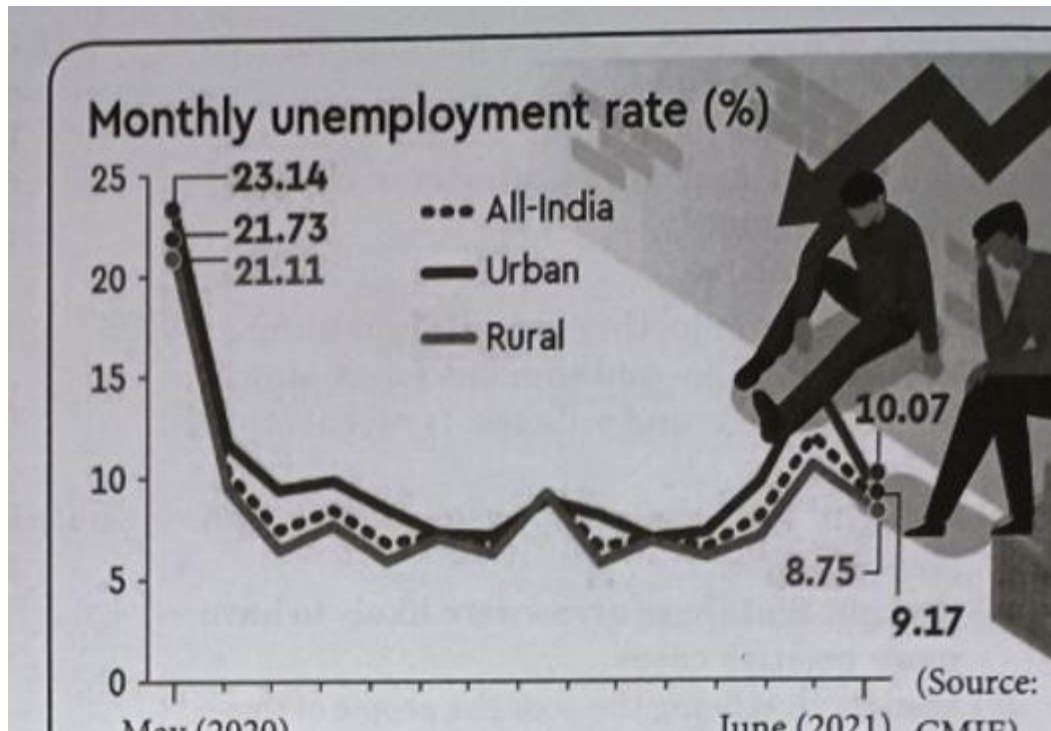**Allotment Date: 25 August 2023**

S. NO.	QUESTIONS	MARKS	NATURE
Q.1	**Read the passage carefully.** 1. According to a Buddhist saying, anger is like a piece of burning coal that we use to hit out against someone else. The hurried piece of live coal may hit the person, even injuring him as we intend at the moment. But the most injured, the most seared, is the one who hurls the coal, the one who held it in the first place. 2. Today, when religion is misused as a focus of anger, it is spirituality that will rescue the day. All religions warn against anger as a provocation, a hurdle in the path towards self-realization. Yet, we keep lapsing into it, conditioned by our animalistic zest where anger was a self-preservative tool. Today, it is no longer so since we are 'civilized', priding ourselves on being more than a step ahead of other animals in the evolutionary ladder. And science increasingly points out how anger has outlived its evolutionary use and today it is a double-edged knife, hurting us most, erupting as diseases—blood pressure, diabetes, heart problems, skin diseases, weakened immune system, and thus sapping but very real chronic fatigue. 3. Yet, we invest anger with controlling power, see those who throw tantrums as powerful. But science is categorical that anger is a symptom of complete loss of control. While the skeptics may see this as psycho-babble, it is a scientific fact. The symptoms of anger are, for the most part, similar to fear! The iris widens, the heart pumps blood faster; the pressure on the circulatory system is heightened. The hair follicles on the body stand up, even the blood chemistry changes. The fight-or-flight hormones, in fact, are the same for anger and fear: adrenalin and non-adrenalin. In effect, the entire sympathetic mechanism is on a chronic alert, bombarding the system to prepare itself just as fear does. The first flush of anger may be 'useful', but the next one and the next keep circulating in the blood as chemicals that have outlived their moment, keeping us in a state of heightened sympathetic system arousal, which is a diseased state, leading to chronic ailments. 4. Anger disrupts even the simple mechanism of digestion, since the blood is busy running around to 'help' you hit out at the enemy. Other life-sustaining systems in the body too are in the go-slow mode in the person who is chronically angry. Over time, this causes adrenal gland exhaustion, causing the new-age disease called hypo-adrenalism, which leads to a variety of chronic diseases, including fatigue, migraine, and blood-pressure. Doctors may shut up these symptoms with pills, but long-term cures lie in erasing anger out of the system. **11.1Answer the following questions in your own words. (1x4=4)** (a) Why does anger hurt the angry person the most? (b) How anger and fear are similar?	6 M	Understanding

(c) What are the diseases caused by anger?
(d) How does anger affect the digestive system?

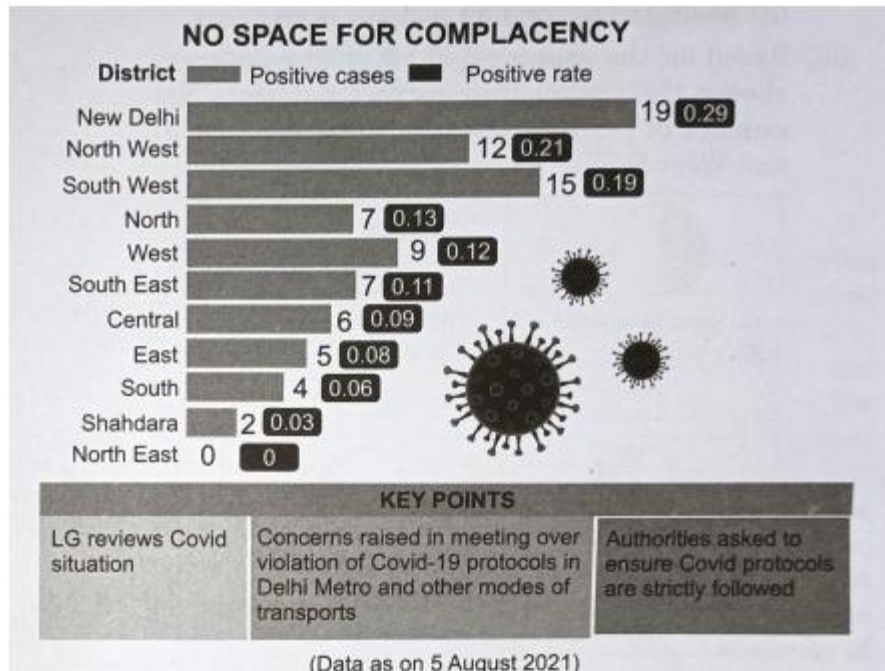**11.2 Find ANY TWO words from the passage which are similar in meaning to the following words. (1 x 2= 2)**
(a) scorched; burnt (para 1): ………………………………………………
(b) unaffected (para 2): ……………………………………………….
(c) tiredness (para 4): ……………………………………………….
(d) removing (para 4): ………………………………………………

Q.2	**Read the passage carefully.**	8	Critical Thinking & Problem Solving

Read the passage carefully.

1. According to the Centre for Monitoring Indian Economy (CMIE), in June 2021, urban unemployment rate fell, but still remained high at 10.07% compared with 14.73% in May. Rural unemployment rate in June stood at 8.75% from 10.63% in May. April and May accounted for 22.7 million job losses, according to CMIE. May 2021 was only the fourth month since at least January 2016 when overall unemployment rate breached the double-digit mark. Amidst country-wide lockdown, unemployment rate went past the mark during April, May and June last year.

2. The overall unemployment rate reached its peak of 23.52% in April last year, but started falling from the next month onwards. In May last year, country's unemployment rate was 21.73%. In June last year, it was 10.18%. Sources said that gradual withdrawal of partial lockdown amidst declining number of people getting affected are pushing workforce back into work, resulting in reduction in unemployment rate amidst a slight recovery in the labour force participation rate (LFPR). From 40.5% in the week ended May 16, LFPR stood at 39.6% in the week ended June 27. The average LFPR in 2019-20 was 42.7%.

Monthly unemployment rate (%)

All-India
Urban
Rural

23.14
21.73
21.11

10.07
8.75
9.17

May (2020)   June (2021) (Source: CMIE)

3. LFPR is an age-specific proportion between persons either working or actively seeking work and the total population in working age group, usually 15 years and above. Unemployment rate is a ratio between persons who are not currently in job but are actively searching for one and the total labour force. CMIE's MD & CEO Mahesh Vyas wrote recently, "The employment rate was mostly over 37% between July 2020 and March 2021 with an average that was close to 38%. It fell to 36.8% in April and then sharply to 35.3% in May 2021. The first four weeks of June 2021 indicate a recovery that is still just short of 36%. This is a worryingly low ER."

(Source: Financial express.com)

NO SPACE FOR COMPLACENCY

District ▬ Positive cases ■ Positive rate

District	Positive cases	Positive rate
New Delhi	19	0.29
North West	12	0.21
South West	15	0.19
North	7	0.13
West	9	0.12
South East	7	0.11
Central	6	0.09
East	5	0.08
South	4	0.06
Shahdara	2	0.03
North East	0	0

KEY POINTS		
LG reviews Covid situation	Concerns raised in meeting over violation of Covid-19 protocols in Delhi Metro and other modes of transports	Authorities asked to ensure Covid protocols are strictly followed

(Data as on 5 August 2021)

Based on your understanding of the passage, answer ANY EIGHT questions.

(i) What was the consequence of Covid-19 pandemic in India?

(a) loss of a large number of lives

(b) loss of a large number of livelihoods

(c) both (a) and (b)

(d) neither (a) nor (b)

(ii) Pick the option that lists the statements that are NOT TRUE according to the passage.

1. In May 2021, the overall monthly unemployment rate was 10% or more than 10%.

2. In May 2021, the overall monthly unemployment rate was less than 10%.

3. Since January 2016, it was fourth time when overall monthly unemployment rate was less than 10%.

4. Since January 2016, it was fourth time when overall monthly unemployment rate reached double digits.

(a) 1 & 2

(b) 1 & 4

(c) 2 & 4

(d) 2 & 3

(iii) Based on the graph, what was the approximate urban unemployment rate in December 2020?

(a) about 7%

(b) about 10%

(c) about 15%

(d) about 20%

(iv) In which of the following months was the worst situation of unemployment problem in our country?

(a) In April 2021

(b) In June 2021

(c) In April 2020

(d) In May 2020

(v) What does LFPR refer to?

(a) the working people and the unemployed people

(b) the working age group people who are working or seeking work and the total population in working age group

(c) the working people and the people seeking work

(d) the people seeking work and the total population in working age group

(vi) Who among the following is a member of total labour force?

(a) a person eligible to work but not willing to work

(b) a person who is eligible and willing to work

(c) a person who is willing to work but not eligible to work

(d) all of the above

(vii) On the whole, what was the employment rate between July 2020 and March 2021?

(viii) "… pushing workforce back into work…" the word 'workforce' refers to……….

(ix) The current unemployment recovery rate is a matter of grave concern. (True/False)

(x) The synonym of the word 'among' in para 1 is………. .

Q.3	**Complete the story with the following beginning. (Word limit:100-150 words)** " **Satish was standing on the balcony watching the last rays of the Sun. Loud and angry voices in the street below distracted his attention. He ran down the stairs to see what had happened … … …"**	5	Communication skill

Q.4	**Grammar** The following passage has not been edited. There is a word missing in each line. Write the missing word along with that comes before it and the word that comes after it. Underline the missing word only as given in example. A programmeorganised by the CBSE for e.g. programme <u>was </u>organised teachers of English .It conducted in two sessions. a) The first session devoted to introducing the b) New course. In the second session the teachers c) explained how the course should taught to d) the students.	**4**	Analytical
Q.5	Read the conversation and complete the passage that follows. Neha: I'm really looking forward to the class picnic tomorrow. Namita: Yes, after a long time we will be meeting our friends and teachers. Neha told Namita (i) ....looking forward for the class picnic..............Namita agreed that after a long time...................friends and teachers.	**2**	Interdisciplinary
Q.6	**Answer the following questions in 30-40 words each.** 1. How was Einstein honoured for his achievements? 2. **What was the effect of Einstein's letter to Franklin Roosevelt?** 3. **What circumstances prompted the doctor to live in small and poor house?** 4.**How did the narrator show presence of mind when he faced with the snake?** 5.**How is the city life different from the life at the Innisfree?**	**2x5**	Evaluation
Q.7	**Answer the following question in 100-150 words.** This story about a frightening incident is narrated in a humorous way. What makes it humorous?(The Snake And The Mirror)	**5**	HOT

Subject: Hindi   **Assignment No. : 4**
Allotment Date: 25 August 2023

S. NO.	QUESTIONS	MARKS	NATURE
1	अपने पिता जी को पत्र लिखकर सूचित कीजिए कि वार्षिक परीक्षा के लिए आपकी तैयारी कैसी है।	5	Information
2	बाढ़ आने से कई गाँव जलमग्न हो गए हैं। दो मित्र उनकी सहायता के लिए जाना चाहते हैं। उनके बीच हुए संवाद का लेखन 50 से 60 शब्दोंमेंकीजिए।	6	Communication Skills
3	नीचे दिए गए शब्दों में उचित स्थान पर अनुनासिक का प्रयोग करके शब्दों को पुनः लिखिए- आसू, कहा (ख (नीचे दिए गए शब्दों में उचित स्थान पर अनुस्वार का प्रयोग करते हुए शब्दों का मानक रूप लिखिए – चदन, सबध निम्नलिखितशब्दोंकेप्रत्ययलिखिए। कथाकार - छुटपन - वास्तविक- निम्नलिखितशब्दोंकेउपसर्गलिखिए। अत्याचार निस्संकोच प्रतिक्षण	2 2 3 3	Understanding

4	देश को वैज्ञानिक दृष्टि और चिंतन प्रदान करने में सर चंद्रशेखर वेंकट रामन् के महत्त्वपूर्ण योगदान पर प्रकाश डालिए।	5	Analytical Skill
5	निम्नलिखितमेंसेकिसीएकविषयपर **80 - 100** शब्दोंमेंअनुच्छेदलिखिए। ऋतुराज-वसंत अथवा मेरी प्रिय पुस्तक	5	Critical Thinking and Problem Solving
6	निम्नलिखित प्रश्नों के उत्तर दीजिए- 1.वाद्ययंत्रों की ध्वनियों के अध्ययन के द्वारा रामन् क्या करना चाहते थे? 2. कौन-सा आघात अप्रत्याशित था और उसका लेखक पर क्या प्रभाव पड़ा? 3. लेखक अतिथि को कैसी विदाई देना चाहता था?	9	Evaluation

ARMY PUBLIC SCHOOL GWALIOR
CLASS - IX
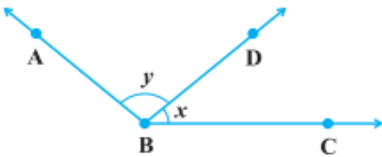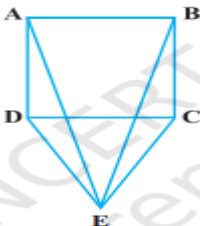## ACADEMIC SESSION 2023-24
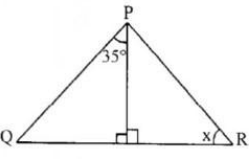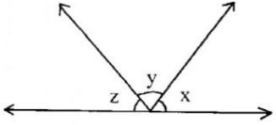## WORKSHEET (SELF –ASSESSMENT)

Subject: Mathematics   **Assignment No. : 4**
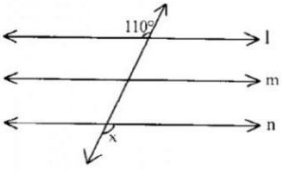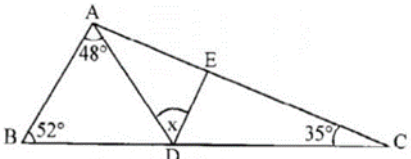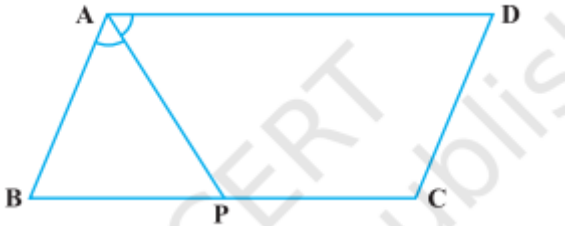
Allotment Date: 25 August 2023

S.NO.	QUESTIONS	MARKS	NATURE
1	**Find the odd among all the options:** **a) Square** **b)Kite** **c) Rhombus** **d) Rectangle**	1	**Understanding**
2	**The quadrilateral formed by joining the mid-points of the sides of a quadrilateral PQRS, taken in order, is a rectangle, if** **(i) PQRS is a rectangle** **(ii) PQRS is a parallelogram** **(iii) diagonals of PQRS are perpendicular** **(iv) diagonals of PQRS are equal**	1	**Application**
3	The bisectors of any two adjacent angles of a || gm intersect at **a) 30°** **b)60°** **c) 3** **c)90°**	1	**Understanding**
4	**In $\triangle$ PQR, $\angle$R = $\angle$P and QR = 4 cm and PR = 5 cm. Then the length of PQ is** **a) 4 cm b) 5 cm c) 2 cm d) 2.5 cm**	1	**Interdisciplinary**
5	**Which of the following needs a proof:** **a) Postulate b)A statement** **d) Anaxiom c)A theorem**	1	**Analytical Skill**
6	**In a trapezium ABCD, DC||AB and $\angle$A=$\angle$B=45 , the teacher asked the student to find $\angle$D student answered it is** **a) 105 b) 130 c) 120 d) 135**	1	**Critical Thinking and Problem Solving**
7	**In triangles ABC and PQR, AB = AC, $\angle$C = $\angle$P and $\angle$B = $\angle$Q. The two triangles are** **a) isosceles but not congruent** **b) isosceles and congruent** **c) congruent but not isosceles d) None of these**	1	**Application**

8.	Angles of a triangle are in the ratio 2 : 4 : 3. The smallest angle of the triangle is a) 60° b) 40° c) 80° d) 20°	1	Analytical Thinking
9	The angles of a triangle are in the ratio 5 : 3 : 7. The triangle is a) an acute angled triangle b) an obtuse angled triangle c) a right triangle d) an isosceles triangle	1	Understanding
10	If two angles are supplementary of each other then each angle is: a) Right angle b)Acute Angle c)Obtuse angle d)Straight angle	1	Interdisciplinary

11	If△ABC≅△PQRand△ABCisnotcongruentto△RPQ,thenwhichofthefollowingisnottrue: (a)BC=PQ b)AC=PR c)QR=BC (d)AB=PQ	1	Interdisciplinary
12.	Whichofthefollowingisnotaruleforcongruenceoftriangle a)SSS b)RHS c)SSA d)SAS	1	Application
13	Can the angles 110⁰, 80⁰, 70⁰ and 95⁰ be the angles of a quadrilateral? Why or why not?	2	Evaluation
14	In △ PQR, ∠P = 70° and ∠R = 30°. Which side of this triangle is the longest? Give reason for your answer	2	Analytical Thinking
15.	For what value of x + y in Fig. 6.4 will ABC be a line ? 	2	Evaluation
16.	PointCismid-pointofthelinesegmentAB.Provethateverylinesegmenthasoneandonlyonemid-point.	2	Evaluation
17.	E and F are points on diagonal AC of a parallelogram ABCD such that AE = CF. Show that BFDE is a parallelogram.	2	Analytical thinking
18.	CDE is an equilateral triangle formed on a side CD of a square ABCD. Show that △ ADE ≅ △ BCE. 	2	Problemsolving

19.	In the figure, PQ=PR. Find x ____ =	2	Evaluation
20.	If three angles x, y and z are angles as shown in the figure, Find the value of $\frac{1}{2}$z if x=58° and $y=42°$ 	2	Interdisciplinary
21.	If l||m and m||n then find x 	3	Critical thinking
22.	From the figure find x if ∠DEC =90° 	3	HOTS
23.	P is the mid-point of side BC of a parallelogram ABCD such that ∠BAP = ∠DAP. Prove that AD = 2CD. 	3	HOTS
24.	Two lines l and m intersect at the point O and P is a point on a line n passing through the point O such that P is equidistant from l and m. Prove that n is the bisector of the angle formed by l and m.	3	HOTS

Subject: Science   **Assignment No. : 4**
Allotment Date: 25 August 2023

S. NO.	QUESTIONS	MARKS	NATURE
1	Q1. Define force of friction. Q2. State three reasons why you think air is a mixture and water is a compound. Q3. What do you mean by tissue?	1 1 1	Information
2	Q4.Define stomata and write two functions of stomata Q5 Why does a boat tend to leave the shore, when passengers are alighting from it? Q6. What is the difference between solutions, suspension and colloids?.	3 3 3	Understanding
3	Q7. A bullet fired against a glass window pane makes a hole in it, and the glass pane is not cracked. But on the other hand, when a stone strikes the same glass pane, it gets smashed. Why is it so? Q8. Explain what happens when a beam of light is passed through a colloidal solution.	3 3	HOT
4	Q9. Differentiate between apical meristem, lateral meristem and intercalary meristemIn terms of location and function Q10. Define (a) solute, and (b) solvent (c) solution.	3 3	Interdisciplinary

5	**Q11. What is chromatography? State its two applications.**	3	Analytical Skill
	Q12. Why do the driver and the person seated in front seat need a seat belt?	3	
6	**Q12. A bullet of mass 4 g when fired with a velocity of 50 ms^{-1}, can enter a wall up to a depth of 10 cm. How much will be the average resistances offered by the wall?**	5	Critical Thinking and Problem Solving
	State Newton's third law of motion with 2 examples.		
7	**Q13. Draw a well labelled diagram of Parenchyma, Collenchyma and Sclerenchyma.Write one function of each.**	5	Evaluation

Subject: Social Science   **Assignment No. : 4**

Allotment Date: 25 August 2023

S. NO.	QUESTIONS	MARKS	NATURE
1	(i) Why was Nelson Mandela sentenced to life imprisonment in 1964? (a) He provoked the people to attack the whites. (b) He spread communal feelings among the people. (c) He dared to oppose apartheid regime (d) He was responsible for the attack on a theatre meant for the whites (ii) What was apartheid? (a) Gender discrimination	1	Information

	(b) Facial discrimination		
	(c) Caste discrimination	**1**	
	(d) Racial discrimination		
	(iii) When did the Constitution of India come into effect?		
	(a) 26th November 1950		
	(b) 26th November 1949		
	(c) 20th November 1951		
	(d) 26th January 1950	**1**	
	(iv) Who among the following was not a member of the Constituent Assembly?		
	(a) Rajendra Prasad		
	(b) B.R.Ambedkar		
	(c) H.C.Mukherjee		

	(d) Mahatma Gandhi		
	(v) What does the term 'Socialist' mean?	**1**	
	(a) Wealth should be shared only by the rich.		
	(b) Wealth is generated socially and should be shared equally by the society.		
	(c) Wealth should be shared only by the poor.		
	(d) Wealth is generated socially and should not be shared by any one.		
	(vi) How can a large population be turned into a productive asset?	**1**	
	(a) By investment in human capital		
	(b) By stopping migration		
	(c) By increasing employment opportunities		

(d) By developing rural areas

(vii) What does 'investment in human capital' mean ?

   (a) Giving proper education to all   **1**

   (b) Giving proper medical care to all

   (c) Giving training to those who are interested in some

      skill

   (d) All of the above

(viii) What was the literacy rate in the year 1951 ?

   (a) 50%   (c) 30%

                             1

   (b) 25%   (d) 18%

(ix) How did countries like Japan become rich / developed ?

   (a) By extracting from the natural resources

   (b) By investing on people in the field of education and

	health		
	(c) By controlling population		
	(d) By raising the standard of the people	1	
	(x) Seasonal and disguised unemployment is associated with which regions ?		
	(a) Rural regions	1	
	(b) Urban regions		
	(c) Both rural and urban regions		
	(d) None of these		

		1	
2	(a) Write difference between seasonal and disguised unemployment	3	Understanding
	(b) What was called the Constituent Assembly?	3	
3	(a) Give an example to prove that population is an asset for the economy rather than a liability. Or (b) Give reasons why we should accept the Constitution made bythe Constituent Assembly more than fifty years ago?	3 3	HOT
4	(a) Why investment in the field of education, health and skill training is important for the overall growth of a	3	Interdisciplinary

	country?		
	(b) Why do you mean by Constitutional amendments? How are they important for the development of a country?	**3**	
5	(a) Can you suggest some measures in the education system to mitigate the problem of educated unemployment ? or (b) How was the apartheid system oppressive for the blacks?	**5** **5**	Analytical Skill

6	(a) Suggest some ways to solve the problem of unemployment.	5	Critical Thinking and Problem Solving
	or		
	(b) Under which circumstances was the Indian Constitution drawn up? Explain.	5	
7	(a) Why is the health of a person given so much importance? What has the government done in this direction ? What are its results ?	5	Evaluation
	or		
	(b) What were the points that the blacks and whites agreed upon while making a Constitution for South Africa?	5	

ARMY PUBLIC SCHOOL GWALIOR

CLASS -IX

ACADEMIC SESSION 2023-24

WORKSHEET (SELF –ASSESSMENT)

Subject: Computer   **Assignment No. : 3**

Allotment Date: 25 August 2023

S.NO.	QUESTIONS	MARKS(10)	NATURE

1	Choose and write the correct option (MCQ):-
	
	(i) We can generate Reports and Queries from:
	    a. Tables
	    b. Form
	    c. Auto format data
	    d. Cells
	(ii) Which tab do you need to click to create a form?
	    a. Home
	    b. Create
	    c. External data
	    d. Database tools
	(iii) What is a small graphical representation of an Organization or theme?
	    a. Logo
	    b. Form
	    c. Design
	    d. Button
	
	(iv) What is the purpose of the description column in the Table Design View?
	
	    a. To describe data that should be entered in each field
	    b. To enter lookup data that the field should refer to
	    c. To define the data type applied to each field in a table
	    d. None of these
		0.5x4=2	Information

2	Fill in the blanks- (i) When you point at a field that has a validation rule the _____ is displayed. (ii) The _____ property specifies the constraints for the value entered into a table. (iii) When you run the Query, only those Records, which match the _____ mentioned, will be displayed. (iv) To generate a basic report, click on the _____ tab and click on the- button.	0.5x4=2	Understanding
3	Write short notes on following- (i) Record (ii) Field (iii) Data Validation (iv) Query	½ x4=2	Critical Thinking
4	Answer the following questions - 1. What is the difference between a Query and the Report? 2. While creating a query, how do you specify the condition for which you want the records to be displayed? 3. Once a report has been generated, how can you make it attractive? 4. What is the 'Validation Rule'?	4x1=4	HOT

Subject: Music (Vocal & Dance, instrumental)   **Assignment No.: 3**

Allotment Date : 25 August 2023

S. NO.	QUESTIONS	MARKS	NATURE
1	How many parts instrument are dividrd ? a) 2 b) 4	1	Informative
2	which of the following is musical instrument tabla , pakhawaj ? a) Ghana vadya yantra. b) Avanaddha vadya yantra.	1	Informative
3	what we call the instruments which have three wires ? a) Sitar b) Tabla	1	Informative
4	Which form of song is " Aye mere watan ke logo"? a) Patriotic Song b) Folk song	1	Informative
5	What does "Taal" called in English? a) Beats b) Rythem	1	Informative

6.	**Who is the writer of song "saare jahan se accha"?** a) Mohommad Iqbal b) Rabindranath Tagore	1	Informative
7.	**Rhythem is?** a) Long and short sounds b) Beats	1	Informative
8.	How many beats (matra) in Rupak taal? a) 10 b) 7	1	Informative
9.	How many tali in Rupak taal? a) 3 b) 2	1	Informative
10.	How many khali in Rupak taal ? a) 4 b) 1	1	Informative

Subject: Health and Physical Education   **Assignment No. : 3**
Allotment Date: 25 August 2023

S.NO	MULTIPLE CHOICE QUESTIONS(QUESTION 1 TO 4)	SKILLS	MARKS:-1X10=10
1.	What was volleyball formerly known as? A. Mintinette B. Mantonette C. Mintonette D. Ash ball	Problem-solving	1
2.	At what height should the volleyball net be supported? A. 1.98 m B. 2.43 m C. 2.34 m D. 2.50 m	Initiative	1
3.	What does FIVB stand for? A. Federation International de Volleyball B. National Basketball Association C. Federation International de Volley D. None of these	Problem-solving	1
4.	When did volleyball become an official Olympic sport? A. 1927 B. 1946 C. 1964 D. 1852	Initiative	1
5.	**Fill in the blanks (question 5 to 7)** _____ was volleyball developed. **(**France ,The United States)	Thinking	1

6.	_____ created volleyball. (William G. Morgan, Alfred Halstead)	Thinking	1
7.	_____players have the task of orchestrating the offense of the team. (Middle blockers, Liberos)	Self-regulation	1
8.	**True & False (question 8 to 10)** Maximum three times of consecutive contacts a team can make with the ball in volleyball.	Initiative	1
9.	A volleyball team must win by a two point advantage	Thinking	1
10.	The ball may hit any part of the body and still be a legal hit	Problem-solving	1