



CLASS-XI

(ENGLISH)

MAKE A PORTFOLIO IN THE CHANNEL FILE/ANY FILE ON THE TOPIC "VOICE OF THE RAIN" COVERING THE STEPS GIVEN BELOW:

- ACKNOWLEDGMENT
- CERTIFICATE
- INTRODUCTION OF THE POET
- POEM
- SUMMARY OF THE POEM
- THEME OF THE POEM
- MESSAGE OF THE POEM
- LITERARY TERMS USED IN THE POEM
- FEATURES OF THE RAIN

USE COLOR, SKETCH AND DRAWINGS & PICTURES TO BEAUTIFY THE PORTFOLIO.

READING PASSAGE

Read the passage given below:

BALANCING THE SCALES

Artificial intelligence (AI) is making a difference to how legal work is done, but it isn't the threat it is made out to be. AI is making impressive progress and shaking up things all over the world today. The assumption that advancements in technology and artificial intelligence will render any profession defunct is just that, an assumption and a false one. The only purpose this assumption serves is creating mass panic and hostility towards embracing technology that is meant to make our lives easier.

Let us understand what this means explicitly for the legal world. The ambit of AI includes recognizing human speech and objects, making decisions based on data, and translating languages. Tasks that can be defined as 'search-and-find' type can be performed by AI.

Introducing AI to this profession will primarily be for the purpose of automating mundane, tedious tasks that require negligible human intelligence. The kind of artificial intelligence that is employed by industries in the current scene, when extended to the law will enable quicker services at a lower price. AI is meant to automate a number of tasks that take up precious working hours lawyers could be devoted to tasks that require discerning, empathy, and trust-qualities that cannot be replicated by even the most sophisticated form of AI. The legal profession is one of the oldest professions in the world. Thriving over 1000 years; trust, judgement, and diligence are the pillars of this profession. The

most important pillar is the relationship of trust between a lawyer and clients, which can only be achieved through human connection and interaction.

While artificial intelligence can be useful in scanning and organizing documents pertaining to a case, it cannot perform higher-level tasks such as sharp decision making, relationship-building with valuable clients and writing legal briefs, advising clients, and appearing in court. These are over and above the realm of computerization.

The smooth proceeding of a case is not possible without sound legal research. While presenting cases lawyers need to assimilate information in the form of legal research by referring to a number of relevant cases to find those that will favour their client's motion. Lawyers are even required to thoroughly know the opposing stand and supporting legal arguments they can expect to prepare a watertight defence strategy. AI, software that operates on natural language enables electronic discovery of information relevant to a case, contract reviews, and automation generation of legal documents.

AI utilizes big-data analytics which enables visualization of case data. It also allows for creation of a map of the cases which were cited in previous cases and their resulting verdicts, as per the website Towards Data Science. The probability of a positive outcome of a case can be predicted by leveraging predictive analytics with machine learning. This is advantageous to firms as they can determine the return on investment in litigation and whether an agreement or arbitration should be considered.

(a) On the basis of your understanding of the above passage, make notes on it using headings and subheadings. Use recognizable abbreviations (wherever necessary- minimum four) and a format you consider suitable. Also supply an appropriate title to it. (5)

(b) Write a summary of the passage in about 80 words. (3)

Accountancy

Solve the following questions

1. Saraswati Ltd. purchased machinery costing Rs. 10,00,000 on January 01, 2011. The company purchased a new piece of machinery on May 01 2012, for Rs. 15,00,000 and another on July 01, 2014, for Rs. 12,00,000. Part of the machinery, which originally cost Rs. 2,00,000 in 2011, was sold for Rs. 75,000 on October 31 2014. Prepare the machinery account, provision for depreciation account and machinery disposal account from 2011 to 2015 if depreciation is charged at 10% p.a. on original cost and the account is closed on December 31, every year.

2. Shri Krishnan Manufacturing Company purchased ten machines for Rs. 75,000 each on July 01 2014. On October 01 2016, a machine was destroyed by fire, and the company admitted an insurance claim of Rs. 45,000. On the same date, the company purchased another machine for Rs. 1,25,000. The company charges 15% p.a. depreciation on a written down value basis. It also maintains the calendar year as its financial year. Prepare the machinery account for the business from 2014 to 2017.

3. The company purchased a plant on July 01 2015, at the cost of ₹ 3 00,000; it spent an additional ₹ 50,000 on the installation.

The depreciation is charged at 15% p.a. based on the straight line method. The plant was then sold for ₹ 1,50,000 on October 01 2017. A new plant was installed on the same date amounting to ₹ 4,00,000 including purchasing value. The accounts for the business are closed on December 31 yearly.

You are to show the machinery account and provision for depreciation account for three years.

4. Write down the difference between straight line method and diminishing balance method.
5. In case of a long term asset, repair and maintenance expenses are expected to rise in later years than in earlier years". Which method is suitable for charging depreciation if the management does not want to increase the burden on profits and loss account on account of depreciation and repair.
6. What are the provisions. How are they created? Give the accounting treatment in case of provision of doubtful debts?

BST

1. Write down any three sources of borrowed fund.
2. Why retain earnings are considered as a cushion of security?
3. Which term is concerned with the acquisition and conservation of capital funds in meeting the financial needs of a business enterprise.
4. Name the organization which has been set up by the central as well as State governments to provide medium term and long term loans to the business sector.
5. Avika Ltd." company, an IT giant company registered in India wants to top the huge amount of resources for its growth and expansion from U.S.A. for long term needs. It also needs money for a period of fewer than 3 years to meet its medium cum short term needs. The company is following the practice of educating and giving employment to underprivileged youth. 50% of its office electricity is generated through solar power.
 - (a) Which two sources of finance should be used by the company to meet its requirement. Write any two characteristics of each source.
6. Write down the difference between shares and debenture.

ECONOMICS

Question 1 Following are the marks obtained by eight students in statistics. Calculate the arithmetic mean.

Marks	15	18	16	45	32	40	30	28
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Question 2 A train runs for 25 miles at a speed of 30 mph, another for 50 miles at a speed of 40 mph. Due to repairs of the track, the trains runs for 6 minutes at a speed of 10 mph and finally covers the remaining distance of 24 miles at a speed of 24 mph. What is the average speed in miles per hour?

Question 3 In a class of 50 students, 10 have failed and their average of marks is 2.5. The total marks secured by the entire class were 281. Find the average marks of those who have passed.

Question 4 Calculate the mean marks from the following data.

Marks	20-25	25-30	30-35	35-40	40-45	45-50	50-55
Number of	10	12	8	20	11	4	5

students							
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Question 5 Calculate the weighted mean from the following data

Marks	60	75	63	59	55
Weight	2	1	5	5	3

Question 6 If the arithmetic mean of the data given below is 28, find (a) the missing frequency, and (b) the median of the series:

Profit per retail shop (in Rs)	0-10	10-20	20-30	30-40	40-50	50-60
Number of retail shops	12	18	27	-	17	6

Question 7 The following table gives the daily income of ten workers in a factory. Find the arithmetic mean.

Workers	A	B	C	D	E	F	G	H	I	J
Daily Income (in Rs)	120	150	180	200	250	300	220	350	370	260

Question 8 Following information pertains to the daily income of 150 families. Calculate the arithmetic mean.

Income (in Rs)	Number of families
More than 75	150
More than 85	140
More than 95	115
More than 105	95
More than 115	70
More than 125	60
More than 135	40
More than 145	25

Question 9 The size of land holdings of 380 families in a village is given below. Find the median size of land holdings.

Size of Land Holdings (in acres)	Less than 100	100-200	200-300	300-400	400 and above
Number of families	40	89	148	64	39

Question 10 The following series relates to the daily income of workers employed in a firm. Compute (a) highest income of lowest 50% workers (b) minimum income earned by the top 25% workers and (c) maximum income earned by lowest 25% workers.

Daily Income (in Rs)	10-14	15-19	20-24	25-29	30-34	35-39
Number of workers	5	10	15	20	10	5

(Hint: Compute median, lower quartile and upper quartile.)

PROJECT WORK ECONOMICS

On Demand (Take the guidance from the link given below)

<https://youtu.be/3cNfemVAEeU?si=YEJX2dmHQBA25Uv0>

APPLIED MATHEMATICS

1. Find the sum of odd integers from 1 to 2001.
2. Find the sum of all natural numbers lying between 100 and 1000, which are multiples of 5.
3. In an A.P., the first term is 2, and the sum of the first five terms is one-fourth of the next five terms. Show that the 20th term is -112 .
4. In an A.P., if p th term is $1/q$ and q th term is $1/p$, prove that the sum of first pq terms is $\frac{1}{2}(pq + 1)$ where $p \neq q$.
5. The sums of n terms of two arithmetic progressions are in the ratio $5n + 4 : 9n + 6$. Find the ratio of their 18th terms.
6. The ratio of the sums of m and n terms of an A.P. is $m^2 : n^2$. Show that the ratio of the m th and the n th term is $(2m - 1) : (2n - 1)$.
7. The difference between any two consecutive interior angles of a polygon is 5° . If the smallest angle is 120° , find the number of the sides of the polygon.
8. The 5th, 8th and 11th terms of a G.P. are p , q and s , respectively. Show that $q \cdot q = ps$.
9. Find the sum to 20 terms in the geometric progression $0.15, 0.015, 0.0015 \dots$
10. The sum of the first three terms of a G.P. is $39/10$, and their product is 1. Find the common ratio and the terms.
11. The sum of the first three terms of a G.P. is 16, and the sum of the next three terms is 128. Determine the first term, the common ratio and the sum to n terms of the G.P.
12. Find the sum to n terms of the sequence, 8, 88, 888, 8888...
13. Find four numbers forming a geometric progression in which the third term is greater than the first term by 9, and the second term is greater than the 4th by 18.
14. Insert two numbers between 3 and 81 so that the resulting sequence is G.P.

Project:

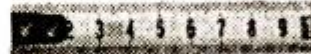
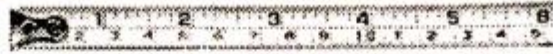
Each day newspaper tells us about the maximum temperature, minimum temperature, and humidity. Collect the data for a period of 30 days and represent it graphically. Compare it with the data available for the same time period for the previous year

I.P

HOLIDAY HW : WRITE 3 PROGRAMS EACH WITH OUTPUT IN PRACTICAL COPY ON LOOP, IF ELSE, LIST

P.HE

Q. 1. Rise and Shine Public School takes part in a football tournament, the coach of football wants to measure the performance of students, so he measures the performance by using a ratio scale.



Look at the picture carefully and identify the scale and answer the questions:

- (a) _____ scale is shown in the above picture.
- (b) It is the most _____, the most sophisticated, and the most _____ measurement scale.
- (c) This scale is different from the _____ scale.
- (d) This scale has an _____, a true zero that has meaning.

Q. 2. Rahil has an athletic, strong, and solid body. His coach explains about his body type and advise him to stat his career as an athlete.



Identify the body type and answer the given questions:

- (a) _____ body type Rahil has.
- (b) People of this body type are not _____ and not underweight.
- (c) They have _____ bone structure with shoulders wider than the hips.
- (d) They have _____ metabolism.