

**MOUNT COLUMBUS SCHOOL
DAKSHINPURI, NEW DELHI-110062**

CLASS X AUGUST WORKSHEET

ENGLISH LANGUAGE & LITERATURE

I. Read the passage given below.

I. Research from the Publishers Association has shown that films based on books take 44% more at the box office revenue in the UK and 53% more worldwide than original screenplays. The report explores what impact a book has when adapted for film and TV.

II. The report reads: "Published material is the basis of 52% of top UK films in the last 10 years, and accounts for an even higher share of revenue from these leading performers, at 61% of UK box office gross and 65% of worldwide gross." The Hollywood adaptation of "My Cousin Rachel" was shown to have a significant impact on the sales of the Daphne Du Maurier thriller. The sales of the book in 2017 alone accounted for 23% of all sales since 1992.

III. The research suggests that adapted films tend to perform better, because films can "leverage the popularity" of well-known books through an existing audience. Films adapted from books also tend to have a richer, more fully-developed story to draw on. In terms of TV adaptation, it was revealed that a quarter of dramas were based on literary sources and attracted a 56% larger share of the audience than those based on original scripts. Fourteen of the 35 high end series produced in the UK in the period between January and September 2017 were based on books, compared to seven based on true stories or historical events and five based on pre-existing films or TV stories.

IV. In the case of the 2016 BBC broadcast of "The Night Manager", research revealed that while the novel was in circulation for over 25 years, 82% of the copies it sold were in 2016 and 2017. Sales of the paperback edition remained strong in 2017 even after the series went off the air.

V. In conclusion, the report states that "there is a strong two-way relationship between publishing and the wider creative economy, wherein a successful adaptation often has spill-over effects and gives a substantial boost to the sales of the original book."

Based on your understanding of the passage, answer the following questions by choosing the correct option.

Q.1 The purpose of the research by Publishers Association was to study the ____.

Choose the correct option.

- A. variety in films and TV shows. B. impact of films on books.
C. choice of books for film-making. D. connect between books and films.

Q.12 Select the option that is true for the two statements given below.

- (1) The revenues generated at the box office have increased.
(2) Majority of the top films in the UK are based on published material.
A. (1) is the result of (2). B. (1) is the reason for (2). C. (1) is independent of (2). D. (1) contradicts (2).

Q.2 Select the option that gives the correct meaning of the following statement.

"The sales of the book in 2017 alone accounted for 23% of all sales since 1992."

- A. There were 23% higher sales in 2017 than previous years.
B. A major chunk of sales happened in 2017.
C. The sales were limited to 23% in 2017.
D. There were very few books sold in the previous years.

Q.3 According to the research, the films based on books have greater success because ____.

- A. people like to see the characters from the books on screen.
B. the films get the advantage of the fame of the books.
C. it takes less effort for people to watch films than read books.
D. the films get a ready-made script from the books.

Q.4 Select the option listing what the given sentence refers to.

‘Films adapted from books also tend to have a richer, more fully-developed story to draw on.’

- (1) The plot and the storyline of such films are better.
- (2) The characters are likely to be more vivid.
- (3) The production of such films is meant for the rich and famous.
- (4) The settings and costumes are adapted from the book.
- (5) The making of such films require the author to write a sequel.

A. (1), (3) and (4) B. (2), (3) and (5) C. (1), (2) and (5) D. (1), (2) and (4)

Q.5 On what from the following were the maximum TV serials in UK in the year 2017 based?

A. books. B. historical stories. C. original true stories. D. previous films.

Q.6 This passage lists an example proving that TV dramas based on literary works have _____.

Select the correct option.

- A. increased the immediate sales of the book
- B. increased the sales of the book during the first screening
- C. had no immediate impact on the sales of the book
- D. had very little impact on the sales of the book

Q.7 Choose the correct option to answer the following: According to paragraph V, ‘there is a two-way relationship between books and the screen’. This is so because both

- A. revolve around the same stories . B. cater to an audience with the same taste.
- C. gain from each other’s popularity. D. belong to the creative field.

II. Answer the following questions in 100 – 120 words each.

- a. Herriot enjoyed the lavish (costly) meals during Tricky’s stay but still, he felt compelled (forced to do something) to inform Mrs. Pumphrey about the recovery of Tricky. Why did he not keep Tricky for a longer time? Did he feel concerned for Mrs. Pumphrey? Discuss the values he possessed.
- b. Why does the author in ‘Coorg’ say that the visitors’ search for the heart and soul of India would be found in Coorg?

हिंदी

I. निम्नलिखित में से किन्ही चार सामासिक पदों का समास-विग्रह करके समास का नाम बताइए।

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|------------------|---------------|-----------------|--------------|-----------------|
| (1) यथाशक्ति | (2) हथकड़ी | (3) मनोहर | (4) रसभरा | (5) गुरुदक्षिणा |
| (6) गंगाजल | (7) कार्यकुशल | (8) नवयुवक | (9) चौमासा | (10) अठन्नी |
| (11) गिरिधर | (12) दशानन | (13) अकालपीड़ित | (14) मार-पीट | (15) नीलकंठ |
| (16) अष्टाध्यायी | (17) नीलकमल | (18) ठंडा-गरम | (19) लंबोदर | (20) पीतांबर |

II. निम्नलिखित वाक्यों के पदबंधों के भेद बताइए।

- (1) अक्लमंदी दिखते हुए आपने बालक को गिरने से बचा लिया।
- (2) बरगद के पेड़ की घनी छाँव से हमें गर्मी में भी ठंडक का एहसास हुआ
- (3) दो हष्ट-पुष्ट लोग बड़े पत्थर को रास्ते से हटा पाए
- (4) राधा का कुत्ता अत्यंत सुंदर, और आज्ञाकारी है।
- (5) चोरी करने वाले बदमाशों में से कुछ पकड़े गए।
- (6) उस छत के कोने में बैठा हुआ व्यक्ति पागल है।
- (7) वह विद्यालय से निकल कर बाजार की ओर आया होगा।
- (8) राम किसी से अच्छा व्यवहार नहीं करता इसीलिए उसके जन्मदिन पर कोई नहीं आया।
- (9) मुझे अपने घर की खिड़की से जंगल में सुन्दर गिलहरियाँ दिखाई दे रही है।
- (10) बाजार से सब्जियाँ लाने रीमा को भेजा गया।

III. निम्नलिखित वाक्यों के रचना के आधार पर भेद बताइए।

1. प्रातः जल्दी उठो और एक घंटे नियमित रूप से व्यायाम करो।
2. मरीज दवाएँ लेने अस्पताल गया।
3. अध्यापक आए और कक्षा में शोर बंद हो गया।
4. परिश्रमी मजदूरों को सभी काम पर बुलाते हैं।
5. जो लोग धनवान होते हैं, उन्हें गरीबों की मदद करनी चाहिए।
6. जैसे ही मोहन आया श्याम ने आगे बढ़कर उसका स्वागत किया।
7. उसने अपना आपा खोया और कटुवचन बोलने लगा।
8. सवेरा होते ही पक्षियों के कलरव से आसमान गूँज उठा।
9. आँधी आई और धूल उड़ने लगी।
10. अपने अथक परिश्रम से उसने असंभव को भी संभव बना दिया।

IV. निम्नलिखित मुहावरों का प्रयोग अपने वाक्यों में इस प्रकार करें कि उनका अर्थ स्पष्ट हो जाए-

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|---------------------------|---------------------------|----------------------------|
| (1) खून खौलना | (2) सिर पर कफ़न बाँधना | (3) धमा-चौकड़ी मचाना |
| (4) तीन-तेरह होना | (5) आकाश-पताल एक करना | (6) आग बबूला होना |
| (7) आसमान सिर पर उठाना | (8) घाव पर नमक छिड़कना | (9) मंत्र ना लगना |
| (10) राह में काँटा बिछाना | (11) काया पलट होना | (12) दुनिया से कूच करना |
| (13) जी-जान से जुटना | (14) काम तमाम कर देना | (15) खुशी का ठिकाना न रहना |
| (16) दीवार खड़ी करना | (17) मुँह में पानी आना | (18) हवा होना |
| (19) जी तोड़ मेहनत करना | (20) आँखें मल-मलकर देखना, | |

MATHEMATICS

1. The sum of numerator and denominator of a fraction is 3 less than twice the denominator. If each of the numerator and denominator is decreased by 1, the fraction becomes $\frac{1}{2}$. Find the fraction.

2. Solve the following pair of equations:

$$\frac{5}{x-1} + \frac{1}{y-2} = 2$$

$$\frac{6}{x-1} - \frac{3}{y-2} = 1$$

3. A two digit number is obtained by either by multiplying the sum of the digits by 8 and then subtracting 5 or by multiplying the difference of the digits by 16 and then adding 3. Find the number.

4. Check whether following quadratic equations has real roots. If yes, then find them :

a) $3x^2 + 2x + 1 = 0$

b) $2x^2 - 5x + 3 = 0$

5. If (-5) is the root of the quadratic equation $2x^2 + px - 15 = 0$ and the equation $p(x^2 + x) + k = 0$ has equal roots, then find values of 'p' and 'k'.

6. The diagonal of a rectangular field is 40 meters more than the shorter side. If the longer side is 20 meters more than the shorter side, find the sides of the field.

7.
$$\sqrt{\frac{\sec\theta-1}{\sec\theta+1}} + \sqrt{\frac{\sec\theta+1}{\sec\theta-1}} = 2\operatorname{cosec}\theta$$

8. If $\cos \theta + \sin \theta = \sqrt{2} \cos \theta$, show that $\cos \theta - \sin \theta = \sqrt{2} \sin \theta$.

9. Prove that : $\frac{\sin\theta - \cos\theta + 1}{\sin\theta + \cos\theta - 1} = \frac{1}{\sec\theta - \tan\theta}$

10. A circus artist is climbing a 20 m long rope, which is tightly stretched and tied from the top of a vertical pole to the ground. Find the height of the pole, if the angle made by the rope with the ground level is 30°.

SCIENCE

1. Write the functions of :

a. Pupil b. Auxin c. ABA d. Cytokinin

2. Draw the following diagrams:

a. Structure of human eye b. Patterns of magnetic field around a current carrying circular loop
c. Myopic eye and its correction d. Flow diagram to show the breakdown of glucose.
e. Hypermetropic eye and its correction f. Dispersion of white light through prism

3. Write an advantage of AC over DC current.

4. How is calcination different from roasting?

5. In a food chain, 50,000 J of energy is available to the producer. How much energy will be available to the secondary consumer?

6. Write any two properties of a magnetic field lines.

7. What do you mean by Flemings left hand thumb rule?

SOCIAL SCIENCE

1. Give any two examples of informal sector of credit.

2. Highlight the inherent problem, in double coincidence of wants.

3. How does the use of money make it easier to exchange things? Give an example.

4. How is money beneficial in transactions?

5. How do the deposits with the banks become their source of income?

6. Why can one not refuse a payment made in rupees in India?

7. Compare formal sector loans with informal sector loans regarding interest only.

8. Why is the supervision of the functioning of the formal sources of loans necessary?

9. Prove with an argument that there is a great need to expand formal sources of credit in rural India.

10. Why are most of the poor households deprived from the formal sector of loans?

11. How does money eliminate the need for double coincidence of wants?

12. What is the meaning of barter system?

13. What is meant by double coincidence of wants?

14. How does money act as a medium of exchange?

15. What is a cheque?

16. Who supervises the functioning of the formal sources of loans?

17. What are the two forms of modern currency?

18. What is collateral?

19. Define credit.

20. When we produce goods by exploiting the natural resources, in which category of economic sector such activities come?

21. Who has the ownership of the assets in the public sector?

22. What does GDP stand for?

23. Mention any one feature of the unorganized sector.

24. Where is the disguised employment found mostly?

25. In which sector are many workers losing their jobs since 1990?

26. What was the most important sector of economic activities at the earliest stages of development?

27. Name the sector which forms the base for all other products.

28. Name the sector in which the natural products are changed into other forms.

29. Name the sector which helps in the development of primary and secondary sectors.

30. Explain the meaning of disguised employment with the help of an example.

ARTIFICIAL INTELLIGENCE

- Q1. Define CNN,
- Q2. Write in brief about NumPy.
- Q3. Differentiate between rule based and learning based approaches.
- Q4. List the importance of neural networks.
- Q5. Entrepreneurs are jobs creators, not job seekers. Explain this statement with an example.
- Q6. Raju works for a company whereas she was assigned the task of developing a project using AI project cycle. She knew that the first stage was scoping the problem. Help her list the remaining stages that she must go through to develop the project.
- Q7. Describe the following AI models and draw an appropriate diagram:
 - a) Regression
 - b) Dimensionality reduction
- Q8. What are the two main types of data used in AI projects?
- Q9. What are the advantages of Neural Networks?
- Q10. What is spam? How is it harmful?

INFORMATION TECHNOLOGY

1. Consider the following table PRODUCT

TABLE: PRODUCT					
S_NO	P_Name	S_Name	Qty	Cost	City
S1	Biscuit	Priyagold	120	12.00	Delhi
S2	Bread	Britannia	200	25.00	Mumbai
S3	Chocolate	Cadbury	350	40.00	Mumbai
S4	Sauce	Kissan	400	45.00	Chennai

How many fields and records are there in PRODUCT table?

(ii) Write SQL queries for the following:

- (a) Display all Products whose Qty is between 100 and 400.
- (b) Display S_Name, P_Name, Cost for all the Products whose Qty is less than 300.
- (c) Display all the records alphabetically by S_Name.

Q2 Identify any two Column name/Attribute and their data types from a given table: PLAYER. [C.B.S.E.]

PID	PNAME	RUNS	GENDER	DOB
P101	SACHIN	13000	M	10/04/2001
P102	KAPIL	7000	M	12/02/1998
P103	SAURABH	12000	M	13/04/2001
P104	VIRAT	12500	M	17/03/2005

Q. 3. Consider the following table: Sales

Sale_Id	Prod_Name	Price	Discount
1101	Laptop	65000	2500
1103	Pen Tab	29500	1000
1105	Desktop	50000	1550
1106	Printer	12000	2000

1. How many fields and records are there in Sales table?

2. Write SQL commands for the following:

i. Display Sales ID and price of all products whose discount is more than 1000.

ii. Display the details alphabetically by product name.

iii. Display product name and sales price after deducting the discount from the price.

Note: Sales price can be calculated as (price-discount)

Q 4. Consider the following table: Teachers

NUMBER	NAME	AGE	SUBJECT	DATEOFJOIN	SALARY	GENDER
1	JUGAL	34	COMPUTER	10/01/2019	12000	M
2	PRATIGYA	31	SCIENCE	24/03/2019	20000	F
3	SANDEEP	32	MATHS	12/12/2019	30000	M
4	SANGEETA	35	SCIENCE	01/07/2020	40000	F
5	SATTI	42	MATHS	05/09/2020	25000	M
6	SHYAM	50	SCIENCE	27/06/2021	30000	M
7	SHIV OM	44	COMPUTER	25/02/2021	21000	M
8	SHALAKHA	33	MATHS	31/07/2020	20000	F

Write SQL commands:

a. To show all the information about IT teachers.

b. To list the details of all the teachers who are getting salary between 20000 to 35000.

c. To display the subject of all the teachers whose age is more than 40 years.

d. To display the list of names of all the teachers in alphabetical order.

Q. 5. Consider the following table "Datesheet" and write the queries for the following:

Sub_Code	Sub_Name	DateofExam	Days
E001	English	11-03-2021	Monday
H002	Hindi	15-03-2021	Friday
S003	Social Sci	18-03-2021	Monday
S004	Science	21-03-2021	Thursday

i. Write a SQL command to display the records in ascending order by date of exam.

ii. Write a query to display the above date sheet.

iii. Write a query to display the subject name and date of the exam held on 'Monday'

iv. Write a SQL command to display the date of exam and Sub_Name of Science subject.

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