

JPDAV Public School, Ganaur
Holidays' Assignment
Session 2021-2022

Class- 11th-English

1. Read the following lessons carefully and make a question bank containing at least 30 questions from each lesson: Hornbill: Lesson 1,&3 Snapshot: Lesson 1
2. Write a notice to be put up on your school notice board informing the students of class 10th about the cancellation of their CBSE Board exams and the criterion of assessment. Invent all the details. You are the academic incharge of your school.
3. Write a letter to the Editor of a national daily showing your concern towards the hugely spread Corona pandemic and the loss of people faced due to the second wave of it. Suggest some measures on how to fight against this.
4. Prepare a Presentation/ Lesson Plan to be presented in class as speaking activity on any one of the following topics:
Tenses, Modals, Voice, Determiners & Clauses
5. Compose a poem/ story on the present scenario. It should be self made, not copied from anywhere. Send a soft copy of it to me

Biology

1. Answer the following questions:
 - (a) What are the taxonomical aids? Name them.
 - (b) What are halophiles
 - (c) Give the features on the basis of which five kingdom classification has been based.
2. Give short notes on virus.
3. Write about the following:
 - (a) Cyanobacteria
 - (b) Euglenoids
 - (c) Phycomycetes
4. Give hierarchical classification of house fly, mango and wheat . Learn and write the 10 botanical name and zoological name of plants and animals found in your locality.
5. Prepare an investigatory project on any of the given topics:
 - i. New discoveries in the field of medicines, genetics or biotechnology
 - ii. Cancer a deadly disease-the preventive and protective measures
 - iii. Animal and plant physiology.

Physics

Do practice of these questions.

Exercises

Based on Uniformly accelerated motion

Formulae used: (i) $v = v_0 + at$
 (ii) $v^2 - v_0^2 = 2a(x - x_0)$
 (iii) $x = x_0 + v_0t + \frac{1}{2}at^2$

(iv) Slope of velocity-time graph gives acceleration.
 (v) Area under velocity-time graph gives displacement.

Units used: x in cm and m, t in second, velocity in cm s^{-1} and m s^{-1} , acceleration in cm s^{-2} and m s^{-2} .

- A small coin is dropped down a well. The splash is heard 2.3 s later. How deep is the well? (Assume that sound travels quickly enough for any delaying effect to be ignored.) [Ans. 25.9 m]
- The motion of a particle along x -axis is given by the equation $x = 9 + 5t^2$, where x is distance in cm and t is time in second. Find (i) the displacement after 3 second and 5 second (ii) average velocity during the interval from $t = 3$ second to $t = 5$ second (iii) instantaneous velocity at $t = 3$ second. [Ans. (i) 54 cm, 134 cm (ii) 40 cm s^{-1} (iii) 30 cm s^{-1}]
- An object is thrown vertically upwards with a velocity of 19.6 m s^{-1} . Calculate the distance and displacement of the object after 3 second? [Ans. 24.5 m, 14.7 m]
- The displacement of a particle moving in one dimension under the action of a constant force is related to the time t by the equation $t = \sqrt{x} + 3$, where x is in metre and t is in second. Find the displacement of the particle when its velocity is zero. [IIT 1979] [Ans. Zero]
- A train was moving at the rate of 36 km h^{-1} . When brakes were applied, it came to rest in a distance of 200 m. Calculate the retardation produced in the train. [Ans. 25 cm s^{-2}]
- A train moving with a velocity of 48 km h^{-1} is brought to rest in 11 second to avoid collision. What is the retardation of the train in m s^{-2} and km h^{-2} ? [Ans. 1.21 m s^{-2} , $1.57 \times 10^4 \text{ km h}^{-2}$]
- A weight is dropped from the top of a building 135 metre high. How fast is the weight moving just before it hits the ground? [Ans. 51.439 m s^{-1}]
- A boy throws a ball upwards with a velocity of 9.8 m s^{-1} . How high does it go? How long was it in the air? [Ans. 4.9 metre, 2 second]
- A juggler throws balls into air. He throws one whenever the previous one is at its highest point. How high do the balls rise if he throws n balls each second. Acceleration due to gravity is g . [Ans. $\frac{g}{2n^2}$]
- A stone is thrown upwards from the top of a tower 85 m high. It reaches the ground in 5 second. Calculate (i) the greatest height above the ground (ii) the velocity with which it reaches the ground and (iii) the time taken to reach the maximum height. Given $g = 10 \text{ m s}^{-2}$. [Ans. (i) 88.2 m, (ii) 42 m s^{-1} , (iii) 0.8 s]
- (a) A stone is dropped from a balloon moving upwards with a velocity of 4.5 m s^{-1} . The stone reaches the ground in 5 second. Calculate the height of the balloon when the stone was dropped. [Ans. 100 metre]
 (b) A stone falls freely under gravity, starting from rest. Calculate the ratio of distance travelled by the stone during the first half of any interval of time to the distance travelled during the second half of the same interval. [Ans. 1 : 3]

A stone is dropped from a balloon at an altitude of 300 m. How long will the stone take to reach the ground if (a) the balloon is ascending with a velocity of 5 m s^{-1} (b) the balloon is descending with a velocity of 5 m s^{-1} (c) the balloon is stationary? [Ans. (a) 8.35 s (b) 7.33 s (c) 7.8 s]

A ball rolls down an inclined plane 2 m long in 4 second. Find (i) its acceleration (ii) the time taken to cover the second metre of the track (iii) the speed of the ball at the bottom of the track. [Ans. (i) 0.25 m s^{-2} (ii) 1.172 s (iii) 1 m s^{-1}]

A body travels 20 cm in the first 0.2 second and 22 cm in the next 0.4 second. What will be the velocity at the end of the 0.7th second from start? [Ans. 10 cm s^{-1}]

A stone falls from a cliff and travels 34.3 m in the last second before it reaches the ground. Calculate the height of the cliff. [Ans. 78.4 m]

During the last second of its free fall, a body covers half of the total distance travelled. Calculate (i) the approximate height from which the body falls (ii) the duration of the fall. [Ans. (i) 57 m (ii) 3.41 s]

Between two stations, a train accelerates uniformly at first, then moves with constant speed and finally retards uniformly. If the ratio of times taken is 1 : 8 : 1 and the greatest speed is 60 km h^{-1} , find the average speed over the whole journey. [Ans. 54 km h^{-1}]

A car starts from rest and accelerates uniformly for 10 s to a velocity of 8 m s^{-1} . It then runs at a constant velocity and is finally brought to rest in 64 m with a constant retardation. The total distance covered by the car is 584 m. Find the values of acceleration, retardation and total time taken. [Ans. 0.8 m s^{-2} , 0.5 m s^{-2} , 86 s]

A hundred metre sprinter increases her speed from rest uniformly at the rate of 1 m s^{-2} upto three-quarters of the total run and covers the last quarter with uniform speed. How much time does she take to cover the first half and the second half of the run? [Ans. 10 s, 4.2 s]

A stone is dropped from the top of a tower 100 metre high. At the same time, another stone is thrown vertically upwards with a velocity of 50 m s^{-1} . When and where the two stones will meet? [Ans. 2 s, 19.6 metre from top or at 80.4 metre height]

A stone is thrown vertically upwards with a velocity of 19.6 m s^{-1} . After 2 second, another stone is thrown upwards with a velocity of 9.8 m s^{-1} . When and where the stones will collide? [Ans. 4 second after first ball is thrown, foot of tower]

Two balls are thrown simultaneously. A vertically upwards with a speed of 20 m s^{-1} from the ground and B vertically downwards from a height of 40 m with the same speed and along the same line of motion. At what point do the two balls collide? Given $g = 9.8 \text{ m s}^{-2}$. [Ans. 15.1 m above the ground]

A stone is dropped from the top of a tall tower and after one second, another stone is dropped from a balcony 20 m below the top. If both the stones reach the ground at the same instant, calculate the height of the tower. Given $g = 10 \text{ m s}^{-2}$. [Ans. 31.25 m]

A car A travelling on a straight level road with a uniform speed of 60 km h^{-1} is followed by another car B which is moving with a speed of 70 km h^{-1} . When the distance between them is 2.5 km, the car B is given a deceleration of 20 km h^{-2} . After what distance and time, will B catch up with A? [Ans. 32.5 km, 0.5 h]

Two cars, a Mercedes and a BMW, were travelling side by side along a straight road at the same speed towards an intersection controlled by traffic lights. The lights turned to yellow and the Mercedes braked hard over a distance of 60 m, stopping at the traffic light. The BMW carried on at the same speed as before.
 (a) If the maximum deceleration of the Mercedes on that particular road surface was 7.5 m s^{-2} , how fast must it have been travelling when the brakes were first applied?
 (b) The BMW unfortunately crashed into another car immediately upon entering the intersection and a witness maintained that the traffic light had changed to red by the time the BMW crossed into the intersection. Given that the traffic light was yellow for 3.0 s, determine whether the BMW went through the traffic light after it had changed to red or not.
 (c) Using the same set of axes for both, sketch graphs of velocity versus time for the Mercedes and the BMW. Indicate how the distance travelled by each of the cars can be determined from velocity-time graphs. [Ans. (a) 30 m s^{-1} (b) reached intersection while the light is yellow]

Physical Education

1. prepare proper notes of unit 1 to unit 4 and learn properly with multiple choice questions.
2. prepare practical file (it will be informed you thoroughly in whats group) neat and clean

XI Business studies

Learn

Unit 1 (lesson 1 to 4)

Unit 2 (lesson 1 to 4)

Unit 2 (company organisation upto types of companies)

XI Economics

Learn lesson

1. Introduction

2. Consumer's equilibrium

3. Demand

* Solve all the numerical

Problems related to
these chapters

* Do practice all the

Curves related to these
Chapters

Accountancy

1. Students have to revise MCQ of chapter 1 to 4
2. Prepare a diagram on Accounting cycle with proper explanation.
3. Collect the original bills from your home transactions (1 month) and paste them in a file.

Class - XI Informatics Practices

Note: Do all the work in IP fair notebook in neat and clean handwriting.

- Q1. Do all the unsolved exercises of chapters 1, 2 and 5.
- Q2. Read and prepare the notes of aforesaid chapters.
- Q3. Prepare a broad report the 'Modern computer is not prepared in a single day'.

Help: Students have to study about evolution of computer in detail.

- Q4. Write down in detail of the advance/modern input and output devices which are providing help in the Lock-Down period. (5-5 each)

Note: Try to paste the picture of each device.

- Q5. Write a brief report on each of the following:
 - i. Machine Learning - A useful tool in our daily life
 - ii. Artificial Intelligence - A boon or bane
 - iii. Augmented Reality - A helping hand in modern education
 - iv. Blockchains Computing - A secure method of transaction.
 - v. Python - The Language for all types of Applications.

POLITICAL SCIENCE

- 1. LEARN FULL SYLLABUS DONE IN YOUR ONLINE CLASSES.
- 2. PREPARE A PROJECT ON THE LIFE SCKETH OF FOUR MEMBERS OF
Constitute ASSEMBLY with there role in formation of Constitution.
- 3. Prepare a assignment on Directive principles given in the Constitution of India and compare these with fundamental rights. 4. Prepared a assignment on the 15 most important amendment in Indian

Subject - History

Class XI

Q1 Read all chapter that had been taught in online class and find out for 1 marks 3 and 8 marks questions?

Q2 Fill and paste the map related to above chapters?

Q3 Make a project on any chapter given in your syllabus and consider these points

Title
Aknowledge
Objectives
Index or content
Introduction
Images /map
Timeline chart
Bibliography
Sources

Q4 Make an assignment on world epidemic **covid-19**

- A) Impact on environment and human being
- B) Employment
- C) Globalisation
- D) Violence of human rights
- E) Role of media.

ग्रीष्मावकाश कार्य 2021-22

कक्षा ग्यारहवीं

विषय हिंदी

कोरोना महामारी से बचाव के लिए मित्र को सलाह संबंधित पत्र लिखिए।

हिंदी भाषा की उत्पत्ति एवं विकास पर एक परियोजना तैयार कीजिए।

अंतराल पाठ 1 ,अंतरा गद्य भाग पाठ 1,2 काव्य भाग 11 ,12 के प्रश्न उत्तर (कक्षा कार्य)अपनी उत्तर पुस्तिका पर लिखिए।

निम्न प्रश्नों के उत्तर लिखिए।

1. कबीर ने अपने पहले पद में हिंदुओं और मुसलमानों के किन आडंबरों और कुरीतियों की निंदा की है?
2. कबीर ने किस राह की ओर संकेत किया है ?हिंदू और मुसलमान इस राह पर गमन क्यों नहीं कर पाते हैं?
3. बांसुरी बजाते हुए कृष्ण की छवि किस प्रकार की हो जाती है?
4. 'खेलन में काको गुसैया 'पद में श्री कृष्ण और सुदामा के किस प्रसंग का वर्णन है?
5. बुढ़िया अमीना बालिका अमीना बन गई! ईदगाह कहानी में ऐसा क्यों कहा गया है?
6. बच्चे जो खिलौने ईदगाह से खरीद कर लाए थे उनका अंत कैसे हुआ?
7. 'दोपहर का भोजन 'कहानी का उद्देश्य स्पष्ट कीजिए।
8. दोपहर का भोजन' कहानी में निम्न मध्यवर्गीय जीवन की त्रासदी का मार्मिक चित्रण हुआ है ! स्पष्ट कीजिए।
9. अंडे के छिलके एकांकी में हर पात्र दोहरेपन की जिंदगी जी रहा है।
स्पष्ट कीजिए ।
10. वीना नई पीढ़ी का विद्रोही स्वर है । टिप्पणी कीजिए।
11. अंडे के छिलके नामक की में चिड़ियों की टकरा हट से पुराने मूल्यों की 2 टन और नए मूल्यों का उभार है स्पष्ट कीजिए।
12. 'मुरली तऊ भोपालहि भावति 'पद में एक सखी दूसरे सखी से क्या कहती हैं?
13. 'दोपहर का भोजन' कहानी का शीर्षक पूर्णतया सार्थक है। कैसे?
14. ईदगाह के नमाज के दृश्य का वर्णन कीजिए।
15. कबीरदास के दूसरे पद में प्रेम भावना का वर्णन किस प्रकार किया गया है?

