

SAMPLE TEST PAPER

UNIT – 2

CLASS – XI

SUBJECT – ENGLISH

TIME- 2 HOURS

MM: 50

GENERAL INSTRUCTIONS :

- 1. All questions are compulsory.**
- 2. Strictly adhere to the prescribed word limit.**

SECTION – A (READING)

(12 marks)

OVER POPULATION – MAIN THREAT TO PLANET

1. Climate change and global pollution cannot be adequately tackled without addressing the neglected issue of the world’s booming population according to two leading scientists Professor Chris Rapley, Director of the British Antarctic Survey and Professor John Guillebaud.
2. They believe that dealing with the burgeoning human population of the planet was vital if real progress was to be made on the other enormous problems facing the world. By the middle of the century, the United Nations estimates that the world population is likely to increase to more than nine billion, which is equivalent to an extra 200,000 people each day. Professor Rapley said the extra resources needed to sustain this growth in population would put immense strains on the planet’s life – support system even if pollution emissions per head could be dramatically reduced.
3. “Although reducing human emissions to the atmosphere is undoubtedly of critical importance, as are any and all measures to reduce the human environmental ‘footprint’, the truth is that the contribution of each individual cannot be reduced to zero. Only the lack of the individual can bring it down to nothing”, Professor Rapley says in an article for the BBC website.
4. Professor Rapley says the explosive growth in the human population and the concomitant effects on the environment have been largely ignored by many of those concerned with climate change. “It is a bombshell of a topic, with profound and emotive issues of ethics, morality, equity and practicability,

“he says. Professor Guillebaud, who co-chairs the Optimum Population Trust, said it Became politically incorrect about 25 years ago to bring up family planning in discussing the environmental problems of the developing world. The world population needed to be reduced by nearly two-thirds if climate change was to be prevented and everyone on the planet was to enjoy a lifestyle similar to that of Europeans, Professor Guillebaud said.

5. An environmental assessment by the conservation charity WWF and the World – watch Institute in Washington found that humans were now exploiting about 20 per cent more renewable resources than can be replaced each year.
6. Professor Guillebaud said this meant it would require the natural resources equivalent to four more Planet Earths to sustain the projected 2050 population of nine billion people.
7. “The figures demonstrate the folly of concentrating exclusively on lifestyles and technology and ignoring human numbers in our attempts to combat global warming”, he said. “We need to think about climate changers – human beings and their numbers as well as climate change”. Some environmentalists have argued that it is not human numbers that are important, but the relative use of natural resources and production of waste such as carbon dioxide emissions. They have suggested that the planet can sustain a population of nine billion people or even more provided that everyone adopts a less energy – intensive lifestyle based on renewable sources of energy rather than fossil fuels.
8. But Professor Guillebaud said: “We urgently need to stabilize and reduce human numbers. There is no way that a population of nine billion – the UN’s medium forecast for 2050 – can meet its energy needs without unacceptable damage to the planet and a great deal of human misery”.

1.1 Answer the following questions in one or two sentences only. (8m)

- a) Why does Prof. Repley call over population a “bombshell of a topic”?
- b) What solution does Prof. Rapley and Prof. Guillebaud suggest to save the planet earth from total catastrophe?

- c) How can the earth sustain a population of 9 billion, according to some environmentalists?
- d) “The figures demonstrate the folly” (Paragraph 7). Which figures demonstrate which folly?

1.2 Choose the most appropriate option and write it in the given space.
(4m)

- a) The problem of climate change must deal with
 - i. Global pollution
 - ii. Growing human population
 - iii. Family planning
 - iv. Depleting renewable resources
- b) Human population growing to 9 billion is a dangerous possibility because
 - i. 200,000 people would be added daily to the world
 - ii. Fossil fuels will be completely exhausted
 - iii. European lifestyles would be impossible
 - iv. People’s energy needs would be difficult to meet
- c) Human population growing to 9 billion is a dangerous possibility because
 - i. 200,00 people would be added daily to the world
 - ii. Fossil fuels will be completely exhausted
 - iii. European lifestyle would be impossible
 - iv. People’s energy needs would be difficult to meet
- d) **Find words in the passage which mean the same as the following :**
 - a) Growing rapidly (Paragraph 2)

SECTION – B (WRITING AND GRAMMAR) (15m)

Q2. You are Rahul / Rashmi. As President of the Literary club of your school you have organized an inter school debate competition on the occasion of the silver jubilee celebrations of your school. Write a notice in about 50 words informing the students of your school about the competition. (5marks)

Q3. Employing minor children, both boys and girls, as full time domestic helps is a common feature. Write letter to the Editor, :The Times Of India” advocating the need to stop such a practice which deprives the children of their basic rights. You are Rashmi/Raghav, living at 14, The Mall, Shimla. (10marks)

SECTION- C (GRAMMAR)

(8m)

Q4. Fill in the blanks with appropriate modals.

(1/2x6=3)

1. The news _____ not be true.
2. With a little more effort, we _____ win this time.
3. _____ you prepare a cup of tea for me? Please?
4. He said that it _____ not rain.
5. You _____ not steal.
6. You _____work hard to win a scholarship.

Q5. The following passage has not been edited. There is an error in each line against which a blank is given. Write the incorrect word and the correction in your answer sheet against the correct blank number as given in the example. Remember to underline the word that you have supplied. (3)

	INCORRECT	CORRECT
Nothing, they say, was more constant than change.	e.g. was	is
Science, being a dynamic subject, was regularly witness	(a) _____	_____
to changes, as old theories periodically gets discarded	(b) _____	_____
and new ideas regularly pop up. We are living at very	(c) _____	_____
interesting times. A scientific temper, having lain	(d) _____	_____
quiescent for some years, is get charged with a slew of	(e) _____	_____
new discoveries tumbling in of laboratories around the globe.	(f) _____	_____

Q6. Rearrange the following into meaningful sentences.

(2m)

- 1) In India/grown/is/coffee/the farmers/by
- 2) by her/not being/the flowers/are / plucked.

SECTION- D (LITERATURE) (15 m)

Q7. Read the extract and answer the questions that follow (3m)

When did my childhood go?
Was it the day I ceased to be eleven?
Was it the time I realized that Hell and Heaven,
could not be found in geography.

Q1. Name the poem and the poet.

Q2. What do you mean by 'was it the day'?

Q3. When did the poet know that 'Hell and Heaven' are imaginary concept?

Q8. Answer the following questions in about 30-40 words. (Any three).

(3x2=6m)

1. What punishment did the History teacher give to Albert for not answering his questions?

2. Why did Einstein not like the place where he lived?

3. What course of action does Mrs. Fitzgerald suggest to Mrs. Pearson to tackle the situation?

4. Why was the author disappointed with Darchen?

Q9. Answer the following questions in about 40-60 words. (2x3=6m)

a. The problem of over- population directly affect our life. Explain.

b. Who is 'the World's most dangerous animal'? What has he learnt?

c. When and how did Shahid tell the writer about his approaching death?

SAMPLE PAPER UNIT TEST-2
CLASS- XI
SUBJECT – ECONOMICS

Time: 2 hrs

MM – 50

General Instructions:-

- (i) Answer to question carrying 1 mark may be from one word to one sentence.
- (ii) Answers to questions carrying 3 marks may be from 50-75 words.
- (iii) Answers to questions carrying 4-5 marks may be about 150 words.
- (iv) Answers to questions carrying 6 marks may be about 200 words.
- (v) Attempt all parts of a question together.

Q 1. When prices are constant (1)

(a) $AR=MR$

(c) $AR > MR$

(b) $AR < MR$

(d) both AR and MR are falling

Q 2. When MR is zero, TR will (1)

(a) be maximum

(c) decrease

(b) Increase

(d) be constant

Q 3. What is positive correlation? (1)

Q 4 What is Producer Equilibrium? (1)

Q 5. Define supplementary cost. (1)

Q 7 Calculate standard deviation by actual mean method: (3)

Size	5	10	15	20
Frequency	2	1	4	3

Q 8 Calculate AC and AVC data if fixed cost is 10: (3)

OUTPUT (UNITS)	TOTAL COST
1	20
2	12
3	40
4	7

Q 9. Explain relationship between AC and MC with the help of diagram. (3)

Q 10 Do all firms always earn normal profit? (3)

Q 11 Explain the relationship between TR , AR and MR with the help of diagram when prices are not constant. (4)

Q 12. Calculate the mean deviation about mean from the following data: (4)

Classes	20-40	40-80	80-100	100-120	120-140
Frequency	3	6	20	12	9

Q 13. Calculate quartile deviation from following data: (4)

X	12	20	15	40	50
Y	2	5	3	3	7

Q 14 Calculate Coefficient Rank correlation of following data: (5)

X	50	42	35	35	38	40	40
Y	25	27	28	29	29	31	32

Q 15 From the following data, Construct Index numbers of price for 2000 with 1995 as base by: (6)

(a) Laspeyre's Method

(b) Paasche's Method

(c) Fisher's Method

Commodities	1995 (Base Year)		2000 (Current Year)	
	Price	Quantity	Price	Quantity
A	2	2	1	3
B	5	10	3	5
C	4	10	5	1
D	2	5	2	2

Q 16 Explain law of variable proportion with the help of table and diagram. (6)

SAMPLE PAPER UT – II
CLASS- XI
SUBJECT- ACCOUNTANCY

TIME: 2Hrs.

MM: 50

GENERAL INSTRUCTIONS:

- Answer all questions
- All parts of the questions should be attempted at one place.
- Each question carries marks indicated against it.

Q.1 Net profit of a firm before charging manager's commission is Rs. 21,000. If the manager is entitled to 5% commission after charging such commission, how much manager will get as commission? (1)

Q.2 The balance of machine on 31st March 2009 is Rs. 97,200. The machine was purchased on 1st April 2007. Depreciation is charged @ 10% p.a. by diminishing balance method. What would be the cost price of the machine as on 1st April 2007? (1)

Q.3 Calculate the due date of a bill of exchange written on July 13, 2007 for 30 days. (1)

Q.4 Cash Book balance was Rs. 1790 (Dr.) when compared with the Bank Statement, unpresented cheques were Rs. 1,040 and deposits but not credited were Rs. 820. What was the balance in the Bank Statement? (1)

Q.5 Calculate the gross profit if rate of gross profit is 25% on sales and cost of goods sold are Rs. 1,80,000. (1)

Q.6 Distinguish between bill of exchange and promissory note by giving proper basis of difference. (3)

Q.7 What are the demerits of Straight Line Method? (3)

Q.8 a) Calculate the amount of 'Gross Profit' when net loss is Rs. 75,000, Operating Expenses are Rs. 1,20,000 and Sales are Rs. 3,00,000.

b) Calculate the amount of 'Sales' when purchases amount to Rs. 6,00,000; Gross Profit Rs. 1,30,000 and Net Profit Rs. 40,000. (3)

Q.9 Bank Pass Book of Mr. X showed an overdraft of Rs 33,575 on 31st March, 2018. On going through the Pass Book the accountant found the following:

- (i) A Cheque of Rs 1,080 credited in the Pass Book on 28th March, being dishonoured is debited again in the Pass Book on 1st April, 2018. There was no entry in the cash Book about the dishonour of the cheque until 15th April.
- (ii) Bankers had credited his account with Rs 2,800 for interest collected by them on his behalf but the same had not been entered in his Cash Book.
- (iii) Out of Rs 20,500 paid in by Mr. X in cash and by cheques on 31st March , cheques amounting to Rs 7,500 were collected on 7th April.
- (iv) Out of cheques amounting to Rs 7,800 drawn by him on 27th March, a cheque for Rs 2,500 was encashed on 3rd April.
- (v) A credit wrongly given by bank of Rs. 5,500 was reversed by it on 6th April, 2018.

Prepare Bank Reconciliation Statement on 31st March, 2018. (4)

Q.10 A sells goods to B for Rs. 10,000 plus CGST and SGST @ 9% each. B pays Rs. 1,800 in cash and accepts a bill on him for the balance amount for 3 months. Before the due date, B requests A to cancel the bill, to accept Rs. 3,000 as part payment and to draw a fresh bill on him for Rs. 7,200 for a further period of 2 months---- Rs. 200 being the interest for the extended period. A agrees to the proposal. The new bill is duly honoured.

Pass Journal entries in the books of A. (4)

Q.11 Calculate Gross Profit on the basis of the following information:

	Rs.	
Purchases	6,80,000	
Return Outwards	30,000	
Carriage Inwards	20,000	
Carriage Outwards	15,000	
Wages	50,000	
$\frac{3}{4}$ of the goods are sold for Rs. 6,00,000.		(4)

Q.12 A company whose accounting year is a calendar year, purchased on 1st April, 2003 machinery costing Rs 30,000.

It purchased further machinery on 1st October, 2003 costing Rs 20,000 and on 1st July, 2004 costing Rs 10,000. On 1st January, 2005 one- third of the machinery installed on 1st April, 2003 became obsolete and was sold for Rs 3,000. Show how Machinery Account would appear in the books of the company. It being given that machinery was depreciated by Fixed Instalment Method at 10% p.a. What would be the value of Machinery Account on 1st January, 2006 . (4)

Q.13 On 1st January, 2018, A drew a bill on B for Rs. 5,000 payable after three months who duly accepted the same. A endorsed the bill to his creditor, C. C discounted the bill at 15% per annum. On the date of maturity, the bill was dishonoured and Bank paid noting charges amounting Rs. 400.

Show the necessary Journal entries in the books of all the parties. (6)

Q.14 X Ltd. which closes its books of account every year on 31st March, purchased on 1st April, 2014 machinery costing Rs. 2,00,000. On 1st October in the same accounting year, additional machinery costing Rs. 1,00,000 was purchased. On 1st October, 2015, the machinery purchased on 1st April, 2014, having become obsolete, was sold for Rs. 90,000. On 1st October, 2016, new machinery was purchased for Rs. 2,50,000 while the machinery purchased on 1st October, 2014 was sold for Rs. 85,000 on the same day.

The company writes off depreciation at 10% p.a. on the Straight Line Method each year. Show the Machinery A/c and Provision for Depreciation A/c for all the three years. (6)

Q.15 The following Trial Balance was extracted from the books of Mr. Gupta as at 31st March, 2014 :

Dr. Balances	Rs.	Cr. Balances	Rs.
Stock on 1-4-2013	65,000	Capital	2,50,000
Purchases	7,10,000	Rent Received	3,900
Wages	22,000	Loan from Mr. Yadav @ 15% p.a.	20,000
Trade Expenses	5,000	Sales	9,50,000
Freight and Dock Charges	8,000	Discount	600
Travelling Expenses	3,800	Outstanding Wages	2,000
Lighting and Heating (Factory)	7,200	Trade Expenses accrued but not paid	500
Stores Consumed	2,000	Sundry Creditors	80,000

Rent Paid	16,500		
Establishment Charges	18,000		
Interest on Mr. Yadav's Loan	1,500		
Sundry Debtors	1,42,000		
Cash	6,000		
Fixed Assets	3,00,000		

Adjustments: -

- i. Goods costing Rs. 20,000 were purchased and included into stock but no entry was passed to record the purchase.
- ii. Loan for Mr. Yadav was taken on 1st June, 2013.
- iii. Sundry Debtors include an amount of Rs. 2,000 due from a customer who has become insolvent and nothing is recoverable from his estate.
- iv. Create a provision of 5% for Doubtful Debts and 2% for discount on Debtors.
- v. Three months lighting and heating bill due but not paid Rs. 3,000
- vi. Rent is paid for 11 months but is received for 13 months.
- vii. Stock amounted to Rs. 90,000 on 31st March, 2014.

Prepare Trading and Profit & Loss Account for the year ended 31st March, 2014 and a Balance Sheet as at that date. (8)

END

SAMPLE PAPER UT-II
CLASS – XI
SUBJECT-BUSINESS STUDIES

TIME: 2HRS.

MM: 50

GENERAL INSTRUCTIONS:

- Answer to questions carrying 1 mark should be answered in one word to one sentence.
- Answer to questions carrying 3 marks should be answered in 50 to 75 words.
- Answer to questions carrying 4-5 marks should be answered in 150 words.
- Answer to questions carrying 6 marks should be answered in 200 words.
- All questions are compulsory.
- Marks are indicated against each question.

Q.1 Name the source of finance where in receivables on account of sale of goods or services are sold at a discount. (1)

Q.2 Give the full form of FICCI. (1)

Q.3 Name the institution which provides an integrated administrative framework for small-scale industries at the district level. (1)

Q.4 If a company wants to get tax advantage , which sources of funds it must use to raise long-term finance? (1)

Q.5 What is the difference between seconds shops and second-hand goods shops? (1)

Q.6 Shubham Ltd. Has decided to expand its production capacity by modernizing its plant and machinery at an estimated cost of Rs.2 crore. It does not have adequate reserves to finance the expansion. Suggest any four sources of finance for the company. (3)

Q.7 Distinguish between itinerant retailers and fixed shop retailers. (3)

Q.8 Give the classification of manufacturing enterprises in terms of investment in plant and machinery in accordance with the provisions of Micro, Small, and Medium Enterprises Development Act, 2006. (3)

Q.9 Mahindra and Mahindra was the first company in India to issue convertible debentures in January, 1990. Recently, many other companies have got approval to issue debentures for raising long-term debt capital. Give three reasons why it is becoming popular. (3)

Q.10 Distinguish between departmental store and multiple shops on the basis of the following:

- a) Objects
- b) Risk
- c) Class of Customers
- d) Flexibility (4)

Q.11 A large-sized company manufacturing shoes for Indian market has to determine whether it should use wholesale set up or its own chain stores for distributing its products. What alternative would you suggest? Give reasons in support of your answer. (4)

Q.12 Mr. Rameshwar is the finance manager of KP Software Ltd. He believes that there are several benefits of issuing equity shares to raise long-term finance. Do you agree with him? Explain any four reasons in your answer. (4)

Q.13 What measures has the government taken to solve the problems of small-scale industries? (4)

Q.14 a) Do you think that small business units can survive in a competitive market? Explain the factors which make way for the scope of small business enterprise.

b) An employee has been terminated due to a small mistake without hearing him, while the other one was not terminated on the same mistake. Which value has been neglected here? (5)

Q.15 As a source of finance retained Profit is better than other sources. Do you agree with this view? Give reasons for your answer. Can a company grow indefinitely by reinvesting surplus profits? (6)

Q.16 Describe the services rendered by wholesalers to manufacturers and retailers. (Three each) (6)

END

SECTION - A

M.M: 50

1. What were the new developments helping European navigation in the fifteenth century? (2)
2. Compare the civilisation of the Aztecs with that of the Mesopotamians. (2)
3. Why do some writers call the Industrial Revolution, the Industrial Evolution? (2)
4. How revolution came in Coal, Iron and Steel Industries? (2)
5. What was the attitude of the French towards the aboriginals of North America? (2)
6. Describe the Judgement given by Justice Marshall about the Cherokee Case. What was its reaction? (2)
7. Write a brief note on Long March in China. (2)

SECTION - B

8. Give a brief account of the Spanish Empire in the South America.
9. How did the Industrial Revolution lead to the emergence of working class? what was the condition of the working class during the Industrial

revolution?

(5)

10. Compare the effects of the coming of the railways in different countries in the word. (5)

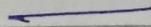
11. Describe the struggle of the ^{Natives} ~~Nations~~ of America for their political rights. (5)

12. Describe the achievements of Meiji rule in Japan. (5)

13. Describe the role of zaibatsu in the economy of Japan. (5)

SECTION - C

14. On the map of USA mark the following places -
a) Florida b) California c) New York
d) Michigan e) Texas f) Nevada (6)



UNIT TEST II (SAMPLE PAPER)
CLASS –XI
SUBJECT –POLITICAL SCIENCE

Time- 2 hrs

MM – 50

General Instructions-

- 1. The question paper has 16 questions. All questions are compulsory.**
- 2. .Question no. 1 to 4 are 1 marks questions.**
- 3. Question no. 5 to 8 are very short questions of 2 mark each.**
- 4. Question no 9 to 12 are short answer question of 4 marks each .**
- 5. Question no 13&14 are passage/cartoon based question of 5 marks each.**
- 6. Question no 15&16 are detail answer question with choice of 6 marks each.**

Q1. What you mean by Judiciary?

Q2. What is centralised federation?

Q3 What is Global citizenship ?

Q4. What is the theory National self determination?

Q5. What is rule of law?

Q6. Why was Sarkaria Commission set up?

Q7. Mention two differences nation and state.

Q8. What does Secularism promotes?

Q9. Describe the jurisdiction of the High court.

Q10. Examine the federal features of the Indian constitution?

Q11 How has self determination idea resulted in both formation and challenges to nation states?

Q12.What are the problems faced by refugees? In what ways could the concept of global citizenship benefited them?

Q13. Read the given passage carefully and the following questions.

The Supreme court of India is the Apexcourt.It is followed by the state High court.At the lowest level are the subordinate courts which comprise of sessions court, district court,judicial magistrate and so on.As far as the appointments to the lower courts are concerned, the Indian judiciary is a career service. Candidates for the state judicial Service sit in competitive examination after atleast three years experience before the bar. The successful candidates are provided specialised training before their appointment to the service. The lower courtsd are therefore staffed with career judges alone . They deal with civil and criminal cases of

localised nature. Constitutional cases , cases of public law and the power to issue writs for violation of fundamental rights do not come under jurisdiction.

- Q1. Which is the highest court in Indian judicial system? 1
Q2. Name the courts subordinate to Supreme court. 2
Q3. Which competitive exam candidate has to clear to become a judge? 2

Q14. Read the given passage carefully and answer the following questions.
A critique of what he called ‘patrotism’ is a persistent theme in his writings. he was very critical of the narrow expressions of nationalism that he found at work in parts of our independence movement. In particular, he was afraid that rejection of the west in favour of what looked like Indian traditions was not only limiting in itself; it could easily turn into hostility to other influences from abroad, including Christianity, Judasim , Zoroastrianism and Islam which have been present in our country.

- Q1. Which quality patriotism or humanity was given more preference by Rabindranath Tagore? 1
Q2. How did Rabindranath Tagore make distinction between opposing imperialism and rejecting western civilization? 2
Q3 Identify the values which according to you Gurudev insisted in the above para. 2

Q15. What is Judicial Activism? In what way it has helped the poor?

OR

Describe the composition, organization and jurisdiction of the Supreme Court.
Q16. What are the major irritants in centre state relations in India? What is the role of Governor in the states?

OR

What do you think are the limitations of Nationalism?

PHYSICAL EDUCATION

Sample Paper VT-III

Class - XI

Timing 2.00 hr

Page No. : _____

Date : _____

max. marks - 50

- Q1 What is the Importance of Evaluation? (5)
- Q2 Explain external and internal ~~rep~~ respiration? (5)
- Q3 What do you mean by centripetal force? (5)
- Q4 What is Physiology? Write its Importance. (5)
- Q5 What is measurement? Explain the importance of test and measurement in the field of sports? (10)
- Q6 Define physiology. Elucidate the importance of anatomy and physiology in the field of sports? (10)
- Q7 What is lever? What are its types? Give example of each type of lever which our body uses during various activities? (10)

Sample paper UT-III

Class XI

Sub:-Mathematics

Time: 2 hours

M.M: 50

General Instructions:

- Section A consists of 4 questions of 1 mark each.
- Section B consists of 4 questions of 2 marks each.
- Section C consists of 5 questions of 4 marks each.
- Section D consists of 3 questions of 6 marks each.

Section A

1. A coin is tossed 3 times and the outcomes are recorded. How many possible outcomes are there?
2. Expand the expression $(1 - 2x)^5$.
3. Does the point $(-2.5, 3.5)$ lie inside, outside or on the circle $x^2 + y^2 = 25$?
4. A point is in the XZ plane. What can you say about its y- coordinate?

Section B

5. Using Binomial theorem, Compute $(98)^3$.
6. Find the number of permutations of the letters of the word ALLAHABAD.
7. Find the equation of the parabola which is symmetric about the y-axis and passes through the point $(2, -3)$.
8. Are the points $A(3,6,9)$, $B(10,20,30)$ and $C(25,-41,5)$, the vertices of a right angled triangle?

Section C

9. What is the number of ways of choosing 4 cards from a pack of 52 playing cards? In how many of these
 - (i) Four cards are of the same suit,
 - (ii) Four cards belongs to four different suits,
 - (iii) Are face cards,
 - (iv) Two are red cards and two are black cards,
 - (v) Cards are of the same colour?

10. Show that $9^{n+1}-8n-9$ is divisible by 64, whenever n is a positive integer.
11. Find the equation of the ellipse whose vertices are $(\pm 13,0)$ and foci are $(\pm 5,0)$.
12. Show that the points $A(1,2,3)$, $B(-1,-2,-1)$, $C(2,3,2)$ and $D(4,7,6)$ are the vertices of a parallelogram ABCD, but it is not a rectangle.
13. Find the equation of the hyperbola with foci $(0, \pm 3)$ and the vertices $(0, \pm \frac{\sqrt{11}}{2})$.

Section D

14. How many numbers greater than 1000000 can be formed by using the digits 1,2,0,2,4,2,4?
15. An equilateral triangle is inscribed in the parabola $y^2=4ax$, where one vertex is at the vertex of the parabola. Find the length of the side of the triangle.
16. Find the coefficient of a^4 in the product $(1+2a)^4(2-a)^5$ using binomial theorem.

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