**ST. PBN PUBLIC SCHOOL**

**SAMPLE PAPER**

**CLASS XI -ENGLISH CORE**

**TIME: 3 HRS.** **MM 80**

**Name** **Class & section** **Date**

---

## SECTION A READING – 26 MARKS

Q1.Read the passage given below.

1. Global warming is the warming up of the Earth due to the trapping of gases like carbon dioxide, methane and nitrous oxide, when the atmosphere fails to perform its function of acting as a productive blanket. The incoming solar radiation is partly absorbed by carbon dioxide, though a vastly higher amount of the outgoing radiation is trapped in the atmosphere.

2. Carbon dioxide possesses immense staying properties in the atmosphere. It is being speculated that carbon dioxide concentrations may double in about a century. This increased carbon dioxide level according to predictions, indicates an increase in temperature ranging from 1.5 - 4 degrees Celsius for a rise in sea levels by about 50 cm by AD 2100.

3. However, Earth apparently has its own system of checks and balances. Water vapour in the atmosphere is known to absorb radiation more than any other atmospheric component. A doubling of carbon dioxide concentration would increase the capacity of the Earth's surface to absorb infra-red radiation by about 4 watts per square meter, though overall, the levels of absorption would be small.

4. Volcanic eruptions, too, are believed to be responsible for reduction in the carbon dioxide content in the atmosphere. A massive volcanic eruption in Philippines had in fact a cooling impact. Cooling through volcanic eruptions is believed to release certain gases, which are responsible for increase in the carbon dioxide content in the atmosphere. Measurement of the incident of carbon dioxide in the atmosphere made in Hawaii indicate that during 1992-93 about two billion tons of the gas was found missing from the atmosphere.

5. As far as the impact of ozone depletion is concerned, it seems to be dictated more by political considerations than any other factor. The increased burning of fossil fuels for energy is largely responsible for the increase in temperature through ozone depletion.

6. A tug-of-war has been going on among the industrialized countries and the developing countries on the share of the blame. In fact, the USA, the erstwhile USSR, Brazil and China account for almost half of the net global emissions of harmful gases such as CFCs. While North America generates about 5 tons per head of carbon dioxide, Africa, China and India together generate approximately 1 ton of carbon dioxide per head. Developing countries, on the other hand, are charged with emission of Methane largely generated from paddy fields and discharge of animals.

7. However, despite the fact that 1995 was one of the hottest years of the 20th century, heavy snow falls have been recorded in some parts of the world – notably on the Eastern coast of America and in Jammu and Kashmir. Moreover, during the latter half of the 20th century, the Arctic climate has not been undergoing any noticeable temperature changes. In fact, till 1975, global temperatures had been undergoing a downward trend. Could the recent spurt in temperatures be a natural cyclical process, or a temporary offshoot of the shifting pressure belts?

8. Given the rising temperatures, growing seasons would be prolonged. Higher temperatures would also lead to increased evaporation from oceans, thereby intensifying cloudiness, leading to moderate temperatures during the day and warmer nights. Warmer temperatures during the night enhance agricultural productivity.
Increased carbon dioxide in the atmosphere will also result in an increase in fertility. Global warming will also have an impact on the El Nino phenomenon - the circulation of weather disturbances around the world as a result of the warming of Pacific Ocean around the tropics.

9. However, a few questions remain in the ongoing debate on global warming. The process of heat transfer in the atmosphere-convection – is a field in which a lot of research needs to be done. Secondly, clouds and vapour are known to be major absorbers of incoming radiation from space. If the cloud cover, as a result of increased evaporation due to rising temperature, were to increase, it would result in more containment. Plants, which both absorb and release carbon dioxide, too have a crucial role to play. Their role, however, has been till now underestimated.

On the basis of the understanding of the passage, answer **ANY TEN** of the questions given below with the help of the options that follow. (10)

(i) It is being surmised that carbon dioxide concentrations may____ in about a century
- a) increase slightly
- b) increase 100%
- c) triple
- d) remain the same

(ii) Which atmospheric component is absorbed by water vapours in the atmosphere?
- a) Radiation
- b) Sunlight
- c) Carbon dioxide
- d) All of these

(iii) The major reason for the increase in temperature through ozone depletion is ___
- a) increased burning of fossil fuels
- b) increased rainfall
- c) generation of CFCs
- d) None of these

(iv) What is the impact of rising temperature on the growing seasons?
- a) Their duration will decrease.
- b) Their duration will increase.
- c) Their duration will remain the same.
- d) They will give more yield.

(v) The cause of a tug-of-war between the industrialized and developing countries is the____
- a) problem of containment
- b) emission of harmful gases
- c) sharing of blame for ozone depletion
- d) none of these

(vi) The increase in the levels of methane in the atmosphere results from_____
- a) CFCs
- b) animal discharge
- c) increased burning of fossil fuels
- d) pressure changes

(vii) The rules of which of the following regarding global warming is underestimated?
- a) Volcanic eruptions

b) Cyclical changes of pressure
c) Cloud cover
d) Flora and fauna

(viii) The word ____ in para 6 means 'tussle'.
a) Tug- of- war
b) Share
c) Account
d) Charged

(ix) The word ____ in para 8 is an antonym of 'massive'.
a) Prolonged
b) Intensifying
c) Enhance
d) Moderate

(x) Which of the following sentence does not give the correct meaning of 'spurt' as used in the passage?
a) There was a spurt in Corona cases after the lockdown was removed.
b) Share of Tata Steel spurted of rupees 2,200
c) There was a sudden spurt of activity in the market after curfew was withdrawn.
d) The water came out in spurts.

(xi) Pick the option that correctly lists the things that affect global warming

1. Clouds 2. Water vapour
3. Plants 4. Volcanic eruptions
5. Heavy snowfalls 6.El Nino phenomenon

a) 2,3 and 4
b) 1,5 and 6
c) 1,3 and 5
d) 2,4 and 6

Q2. Read the passage given below. (8)

1. India's labour market is the second largest in the world, after China, with a working age population of about520 million people. In 10 years, it is expected to be the world's largest as China's population aged 15 to 64 drops from 20.5 to 18.3 per cent.

2. While this positive demographic growth should be advantageous for business, only a small portion of India's working age population is actually engaged in the formal workforce. The primary reason being that barely one in four women are part of the country's workforce. Today, industry estimates show that women in India only make up five to six per cent of directorships at most listed companies; this after amendments to the Companies Act mandated at least one woman on company boards.

3. These figures underline the highly distorted nature of India's labour market where women hold 45 per cent of university degrees but are either denied employment opportunities or experience much slower career growth trajectories due to gender-based discrimination.

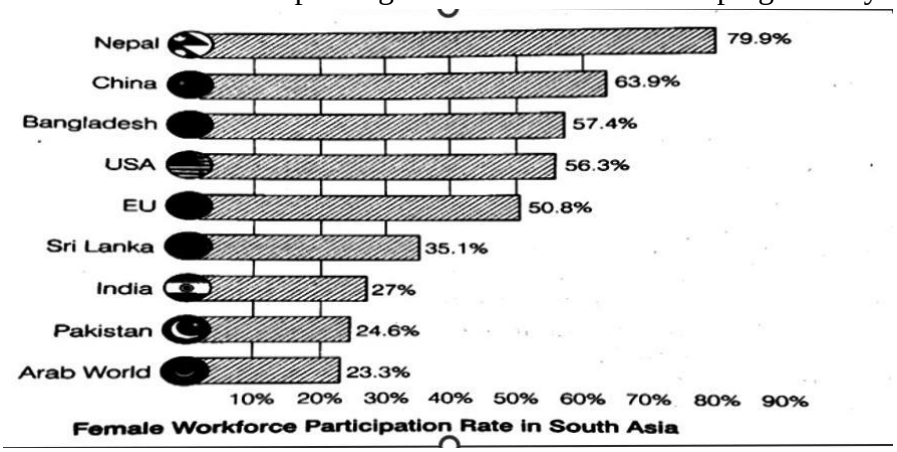
4. India has the lowest female labour force participation rate in its neighbourhood. At about 27 per cent, it falls well below Sri Lanka, Bangladesh, and Nepal. While female employment is higher in rural India, it is mostly as underpaid and temporary labour, though even here the rate of participation is declining.

5. The overall rate of female labour force participation declined as the Indian economy opened up, urbanized, and diversified with the growth of new industries, unlike most other regions in the world. In fact, rapid growth experienced by the US and China in the past century illustrate how improving the gender balance in the workforce

contributes to a nation's economic growth. Female labour force participation is 56 per cent in the US and 64 per cent in China.

6. The above correlation is also strengthened by a 2017 IMF study, which states that increasing the female labour force participation will grow India's GDP by an estimated 27 per cent contrast this with the projections made by the government's big idea reforms 'Make in India and Digital India', which aim to boost India's growth by 16 per cent and 5 per cent, respectively.

7. Yet, GDP goals aside, the gender imbalance in India's workforce stunts future prospects for inclusive growth in the country. It deprives women and girls from role models in the workplace, reduces their motivation to study further, and perpetuates unhealthy socio - cultural attitudes. Leaving out one half of the population from its workforce will also prolong India's status as a developing country.



Female Workforce Participation Rate in South Asia

On the basis of the understanding of the passage, answer **ANY EIGHT** of the questions given below with the help of the options that follow.

(i) What does the given passage highlight?

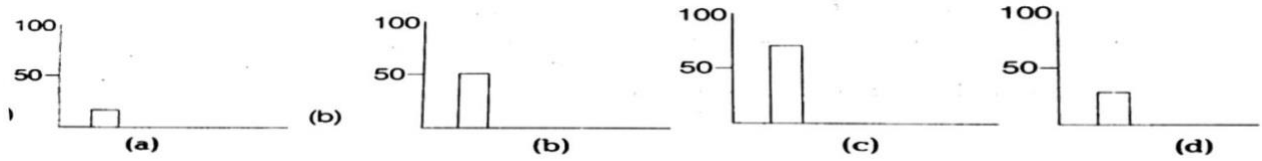
(a) The reasons for declining GDP

(b) Need of more female workforce.

(c) Gaps in women empowerment in the workforce.

(d) Why India can remain a developing country for long?

(ii) Which of the following figure depicts the correct percentage of female labour force participation in India?




(iii) According to the passage, what may be a negative factor that can impact the positive growth of the Indian labour force?

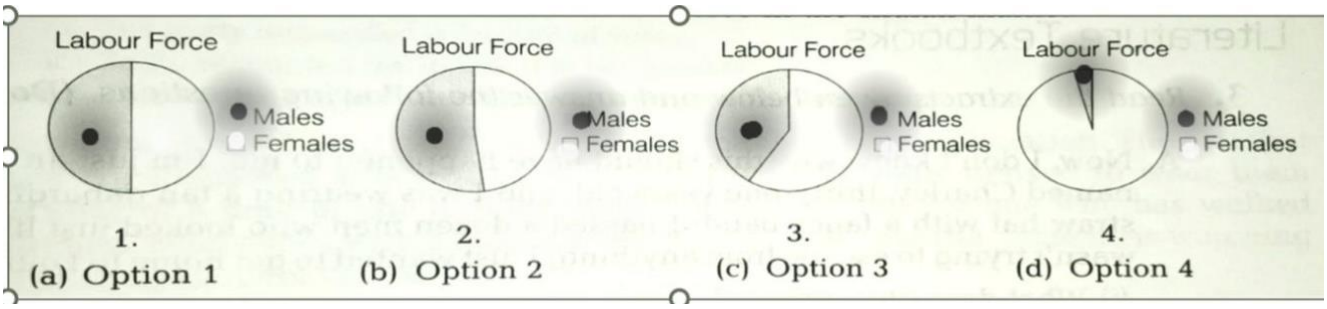
(a) Lack of skilled labour.

(b) Lack of female workforce.

(c) Lack of the younger working population in the formal workforce.

(d) Lack of equal opportunities for all.

(iv) Based on the graphical chart in the passage, choose the option that correctly states the depiction of male and female labour force in the Indian market.




(v) What is the reason for the highly distorted nature of female workforce of India's labour market?
(a) Women are unskilled and uneducated.
(b) Women are denied employment opportunities.
(c) Women have slower career growth.
(d) Both (b) and (c)

(vi) Based on the given graphical representation of data in the passage, choose the option that lists the statements that are TRUE with respect to the Indian Labour market.
1. The female labour force participation reduces India's GDP. 2.
The gender imbalance in Chinese workforce is the highest.
3. The overall rate of female labour force declined in the Arabic economy urbanized.
4. Nepal has the lowest female labour force participation rate in its neighbourhood.(a) 1 and 2
(b) 3 and 4
(c) 1 and 4
(d) 2 and 3

(vii) Why was there a decline in Indian female workforce?
(a) Traditional belief related to females.
(b) Urbanization and industrialization.
(c) Rising rates of crimes against females.
(d) Lack of the professional skills that came in demand.
(viii) Which countries show that economic growth is directly proportional to gender balance?
(a) USA and China
(b) Nepal and China
(c) USA and Nepal(d) USA and EU
(ix) Which of the following statements is NOT substantiated by information in paragraph 4?
(a) Rapid growth experienced by the US and China in the past century illustrate how improving the gender balance contributes to a nation's economic growth.
(b) The female labour force participation declined in the Indian economy.
(c) Female labour force participation is 56 per cent in the US and 64 per cent in China.
(d) Leaving out one half of the population from its workforce will also prolong India's status as a developing country.
Q3.Read the following passage carefully:
1. Artificial intelligence (AI) has become commonplace. When it comes to medicine, AI helps surgeons to streamline tasks, improve operational efficiencies and simplify complex procedures.

2. Despite its potential to unlock new insights, AI may bring considerable threats of privacy, ethical concerns, and medical errors. The need is of a human-artificial intelligence interface, the knowledge handler and the empathetic communicator.
3. Although AI has come a long way in the medical world, human surveillance is still essential. For example, surgery robots operate logically, as opposed to empathetically. Surgeons may notice vital behavioural observations that can help diagnose or prevent medical complications. AI can identify potential ailments faster than human doctors, but when it comes to decision-making, AI cannot yet fully and safely surpass human physicians. AI cannot adapt to the variety of situations arising during a difficult surgery as it has a pre-fixed analytic, but a surgeon can not only adapt to the situation, but find new ways on the operating table to save a person's life.
4. Despite the fact that robots are in many ways seen as more accurate and reliable than human surgeons, people are inevitably worried about putting their lives in the hands of a machine. Fears surrounding the safety and accuracy of procedures are prevalent among members of the public, however it is highly likely that the widespread use of medical robotics is set to continue.
5. AI is a new tool and can perform more complicated tasks and detect minor errors which can be missed by humans, but there are costs and risks if it is utilized incorrectly. There is always some scope for human error or mechanical failure with these advanced robots. A single mechanical malfunction can cost human lives.

(Source- India Today- Empathy, Key to Quick Healing)

i.On the basis of your reading of the above passage, make notes using headings and sub-headings. Use recognisable abbreviations wherever necessary. Suggest a suitable title for the passage. (5)

ii. Write a summary of the above passage in not more than 50 words using the notes made by you. (3)

**SECTION B GRAMMAR – 7 MARKS**

Q4.Fill in the blanks with the correct form of verb.

i. It -------- me five minutes to get to school .

a. have taken b. has taken c. is taking d. takes

ii. This is the first time I ------ about him.

a. am listening b . have listened. c. listened d. have been listened

iii. Since when ---------- he --------- coaching?

a. has , been taking b . has , been taken c. is , taken d. is , been taken

iv. When I visit , they ---------- for three hours .

a. has been studying b. have been studying c. will have been studying d . are studying

Q5. Identify the correct type of clauses from the given options :

i. I don't remember when he left . Here' when he left' is --------
-- clause.

a. Noun b . Adverb c. Adjective d. Co-ordinate

ii. I know the place where he lives . Here'
where he lives 'is --------- clause.

a. Noun b. Adverb c. Adjective d. Independent

iii. I know the man whom I met yesterday . Here 'whom I met yesterday ' is ------
clause.

a.Adverb b. Adjective c. Noun d. Co – ordinate

CREATIVE WRITING SKILL - 16 MARKS

Q6. (i). You are shifting with family from Delhi to Mumbai due a change in your job and looking for an

accommodation on rent near Juhu Beach. Draft an ADVERTISEMENT in 50 words for the classified column 'Accommodation Wanted'. Invent necessary details. (3)

OR

A multinational company requires a suitable candidate for the post of Store Supervisor for their newly opened showroom at Gurugram. Draft a suitable ADVERTISEMENT in 50 words for the classified column 'Situation Vacant' giving details of the requirements.

Q7. You are Shalin/ Shalini working with an NGO 'Animal Protection'. Encouraged by the steps taken by the Indian government in bringing Cheetahs to India, your organization deputes you to draft a POSTER in 50 words to be published in newspapers celebrating the arrival of cheetahs which was declared as extinct from India in 1952. Also include a message sensitizing people against exploiting and destroying the beautiful grasslands, the natural habitat
of cheetahs. (3)

OR

On the occasion of your school's Golden Jubilee Celebration, you are organizing a Musical Concert by a renowned artiste. Mr. Raj Kumar Rao, an eminent film personality has consented to grace the occasion as the Guest of Honour. Design a POSTER in 50 words for the same with necessary details.

Q8. Women play a crucial and integral role in the development and prosperity of the society. The government has provided a conducive atmosphere to make them self-reliant while ensuring their safety, self-respect and dignity. Write a SPEECH in 120-150 words to be delivered in the morning assembly taking hints from the table given below. (5)

Establishments setup in U.P. alone

- Mission Shakti Cells
- Women helpdesk in all 1584 police stations
- Additional women police stations/ women outposts
- Beti Bachao- Beti Padhao Yojana
- 2.61 cr. toilets constructed under Swachh Bharat Mission

OR

Mobile phones have influenced children in a big way. Write a SPEECH in 150-200 words on how they have affected the younger generation. You are Ekta/Eklavya, School Captain of Surya Public School, Patna.

Q9. You are Asim/ Asima of class XI participating in a debate competition. Write a DEBATE either for or against the motion: 'Indian festivals are all about gifts, food, shopping and enjoyment.' (Word limit 120- 150 words) (5)

OR

In sports, aggression is a characteristic that can have many negative as well as positive effects on performance. Taking clues from the inputs given below write a DEBATE on the topic- 'Aggression is a Vital Part of Sports'. You are Asim/Asima of class XI. (Word limit 120- 150 words) Notes:

Aggression mostly viewed as- negative psychological characteristic/sports psychologists opine- aggression improves performance-termed as assertive behaviour/player plays- within rules of the sporting domain- at high intensity/no intention to harm an opponent/aggression-defined into two categories: hostile aggression and instrumental aggression/ hostile aggression- aim-to cause harm or injury to opponent/Instrumental aggression aim-to achieve a goal by using aggression

SECTION C LITERATURE - 31 MARKS

Q10.Read the given extract carefully and answer the questions that follow: (3)

"Now she's been dead nearly as many years As that girl lived.
And of this circumstance There is nothing to say at all.
Its silence silences."

a)Identify the phrase from the extract that conveys the following: It has been twelve years since the death of the poet's mother.

b)The tone of the poet in the above extract is ……

* pessimistic
* optimistic
* aggressive
* sentimental

c)Which figure of speech has been used in the last line of the extract-

OR

"When did my childhood go?
Was it the time I realised that adults were not all they seemed to be,
They talked of love and preached of love, But did not act so lovingly, Was that the day!"

a)The trait of adults highlighted in the extract is-_____

b)Which lines justify the following idiom-

'Actions speak louder than words.'

c)Choose the poetic device used in the first line of the extract.

*Repetition
*Transferred epithet
*Personification
* Refrain

Q11. Read the given extract carefully and answer the questions that follow: (3)

When I went in to comfort the children, Jon asked, "Daddy, are we going to die?" I tried to assure him that we could make it. "But, Daddy," he went on, "we aren't afraid of dying if we can all be together — you and Mummy, Sue and I."

I could find no words with which to respond, but I left the children's cabin determined to fight the sea with everything I had. To protect the weakened starboard side, I decided to heave-to - with the undamaged port hull facing the oncoming waves, using an improvised sea anchor of heavy nylon rope and two 22 litre plastic barrels of paraffin.

a) An apt title of the above extract could be*Power of Words
* Child is the Father of Man
* Struggle for Survival
* Struggle at Sea

b) Which group of words from the following options aptly describes the relationship between the father and the son-

* Unquestionable, friendly, hesitant
* Trusting, strong bonding, unconditional love
* Doubtful, feeble bonding, conditional love

* Faithful, affable, unpleasant
c) Choose the word which means the same as ‘improvised’.
* prepared
* planned
* rehearsed
* devised
OR
A FLAWLESS half-moon floated in a perfect blue sky on the morning we said our goodbyes. Extended banks of cloud like long French loaves glowed pink as the sun emerged to splash the distant mountain tops with a rose-tinted blush. Now that we were leaving Ravu, Lhamo said she wanted to give me a farewell present. One evening I’d told her through Daniel that I was heading towards Mount Kailash to complete the kora, and she’d said that I ought to get some warmer clothes. After ducking back into her tent, she emerged carrying one of the long-sleeved sheepskin coats that all the men wore.
a)Identify the figure of speech in “Extended banks of cloud like long French loaves”. *
personification
* hyperbole
* metaphor
* simile
b)Lhamo’s farewell present to Nick Middleton highlights her-
*simplicity
* friendliness
* concern
* greed
c)Choose the option that displays the correct usage of the word ‘ducking’ in the above extract.
* This ducking was the very thing he needed.
* He walked around to the driver’s side, ducking his head as he folded his tall frame into the car.
* The slower class of meteors ducking the earth have a velocity of about 8 to 10m.
* The movement of traffic was made impossible due to the ducking of tracks.
Q12. Read the given extract carefully and answer the questions that follow: (4)
I stopped, horrified. I was in a room I knew and did not know. I found myself in the midst of things I did want to see again but which oppressed me in the strange atmosphere. Or because of the tasteless way everything was arranged, because of the ugly furniture or the muggy smell that hung there, I don t know; but I scarcely dared to look around me. The girl moved a chair. I sat down and stared at the woollen table-cloth. I rubbed it. My fingers grew warm from rubbing. I followed the lines of the pattern. Somewhere on the edge there should be a burn mark that had never been repaired.
a) Which room is the narrator referring to in the given context?
*dining room
* living room
* lobby
* attic
b) Identify the literary device in the given statement- “I was in a room I knew and did not know.*Repetition
*Contrast
*Oxymoron
*Paradox
c) Ascertain the reason that doesn’t correspond to the narrator feeling horrified-*oppressed by the strange atmosphere

* plagued by the tasteless way everything was arranged
* upset by Mrs. Dorling's reluctance to acknowledge her
* dismayed by the ugly furniture or the muggy smell

d) Select the option which means the same as 'hardly/barely'?

*oppressed
* scarcely
* muggy
*midst

OR

It suddenly dawned on me that he had been taking these early morning rides for some time and had come for me this morning only because he knew how much I longed to ride.

Who said anything about stealing a horse? he said.

Anyhow, I said, how long ago did you begin riding every morning?

Not until this morning, he said.

Are you telling the truth? I said.

Of course not, he said, but if we are found out, that's what you're to say. I don't want both of us to be liars. All you know is that we started riding this morning.

a) Aram's conclusion about Mourad taking early morning rides was based on-

*Mourad's love for the horse
*Mourad not willing to be caught with the horse
*Mourad skillfully riding the horse
*Mourad inviting Aram for a ride

b) Highlight one trait of Mourad from his statement "I don't want both of us to be liars."

*conspiring
* scrupulous
* honesty
* manipulative

c) What made Mourad visit Aram with a horse?

* because he had been taking early morning rides himself
* because he wanted company
* because he didn't want to be found out alone
* because he knew Aram's longing to ride a horse

d) Statement-A: Mourad had become adept at riding the horse.
Statement-R: Mourad had stolen the horse that day only and had come to Aram to offer him a ride.

* Both A and R are true and R is the correct explanation of A.
* Both A and R are true but R is NOT the correct explanation of A.
* Both A and R are false.
* A is false but R is true.

Q13. Answer the following questions in about 40-50 words each: (3x2=6)

a) A fairly universal issue of friction between a father and son is exclusively personal also. Do you agree or disagree with the statement? Explain with reference to 'Father to Son'.

OR

Draw a parallel between a goldfinch and a lizard as depicted by Ted Hughes.

b) Give evidence of the fact that Tut's burial took place in the month of March or April.

OR

'To her music had lewd associations'. Comment on the statement in the light of the story 'The Portrait of a Lady'.

Q14. Answer the following question in about 40-50 words: (3)

a) "Love for an animal or bird is pure because in that love you don't expect anything in return." Substantiate with reference to 'The Summer of the Beautiful White Horse.'

OR

b) An unwarranted enthusiasm for rules and regulations may lead to chaos and anarchy. Explain in the wake of the theme of the poem 'The Tale of Melon City'.

Q15. Answer the following question in about 120-150 words: (6)

a) An adventure is an unusual, exciting and daring experience. Compare and contrast the element of adventure in the chapters 'The Adventure' and 'Silk Road'.

OR

b) Nature plays an important part in human life. To keep it alive, man needs to respect the necessity of rain on earth. Reinforce this idea as reflected in the poem 'The Voice of the Rain'.

Q16. Answer the following question in about 120-150 words: (6)

a) "I have done something; oh, God! I've done something real at last". Justify Andrew's comment with reference to the title of the story. (Birth)

OR

b) 'All's well that ends well' effectively summarizes the essence of the play 'Mother's Day'. Elucidate.

---

**ST. PBN PUBLIC SCHOOL, GURUGRAM**
**ANNUAL EXAMINATION**
**CLASS - XI**
**MATHEMATICS**
**SAMPLE PAPER**

**TIME: 3 Hours** **MM: 80**

**NAME: _____ DATE: _____**

## General instructions:

- All questions are compulsory.
- Section A consists of 20 questions of 1 mark each.
- Section B consists of 6 questions of 2 marks each.
- Section C consists of 6 questions of 4 marks each.
- Section D consists of 4 questions of 6 marks each.
- Use of calculator is not allowed.

### Section A

1. For two sets AUB=A iff
   (i) B ⊆ A (iii) A ⊆ B
   (ii) A≠B (iv) A=B
2. The number of subsets of a set containing n elements is
   (i) n (iii) $2^n$
   (ii) $n^2$ (iv) $2^n$-1
3. The range of the function $f(x) = \frac{x}{|x|}$ is
   (i) R-{0} (iii) {-1, 1}
   (ii) R-{-1, 1} (iv) none of these
4. Which of the following is incorrect?
   (i) $\sin\theta = -\frac{1}{5}$ (iii) $\sec\theta = \frac{1}{2}$
   (ii) $\cos\theta = 1$ (iv) $\tan\theta = 20.$
5. The value of $\tan\theta \sin\left(\frac{\pi}{2}+\theta\right)\cos(\frac{\pi}{2}-\theta)$ is
   (i) 1 (iii) $\frac{1}{2}\sin 2\theta$
   (ii) -1 (iv) none of these
6. The value of $(1+i)(1+i^2)(1+i^3)(1+i^4)$ is
   (i) 2 (iii) 1
   (ii) 0 (iv) none of these
7. If $\frac{3+2i\sin\theta}{1-2i\sin\theta}$ is a real number and $0 < \theta < 2\pi$, then $\theta =$
   (i) $\frac{\pi}{6}$ (iii) $\frac{\pi}{2}$
   (ii) $\frac{\pi}{3}$ (iv) $\pi$
8. If x is a real number and $|x| < 5$ then

(i) $x \geq 5$ (iii) $-5 < x < 5$
(ii) $x \leq -5$ (iv) $-5 \leq x \leq 5$

9. The number of words from the letter of the word 'BHARAT' in which B and H will never come together is
(i) 360 (iii) 120
(ii) 240 (iv) none of these

10. In how many ways can a committee of 5 be made out of 6 men and 4 women containing at least one woman?
(i) 246 (iii) 186
(ii) 222 (iv) none of these

11. The term without x in the expansion of $(2x - \frac{1}{2x^2})^{12}$ is
(i) 495 (iii) -7920
(ii) -495 (iv) 7920

12. If $7^{th}$ and $13^{th}$ term of an A.P. be 34 and 64 respectively, then its $18^{th}$ term is
(i) 87 (iii) 89
(ii) 88 (iv) 90

13. If second term of a G.P. is 2 and the sum of its infinite terms is 8, then its first term is
(i) 1/4 (iii) 2
(ii) 1/2 (iv) 4

14. The line segment joining the points (-3, -4) and (1, -2) is divided by y-axis in the ratio
(i) 1:3 (iii) 3:1
(ii) 2:3 (iv) 3:2

15. The angle between the lines 2x-y+3=0 and x+2y+3=0 is
(i) $90^o$ (iii) $45^o$
(ii) $60^o$ (iv) $30^o$

16. The eccentricity of the ellipse $4x^2+9y^2=36$ is
(i) $\frac{1}{2\sqrt{3}}$ (iii) $\frac{1}{\sqrt{3}}$
(ii) $\frac{\sqrt{5}}{3}$ (iv) $\frac{\sqrt{5}}{6}$

17. $\lim_{x \to a} \frac{x^n - a^n}{x - a}$ is equal to
(i) na (iii) $na^n$
(ii) 1 (iv) $na^{n-1}$

18. The mean deviation of the numbers 3, 4, 5, 6, 7 from the mean is
(i) 25 (iii) 1.2
(ii) 5 (iv) 0

19. Two dice are thrown simultaneously. The probability of obtaining total score of seven is
(i) 5/36 (iii) 8/36
(ii) 6/36 (iv) 7/36

20. A pack of cards contains 4 aces, 4 kings, 4 queens and 4 jacks. Two cards are drawn at random. The probability that at least one of them is an ace is
(i) 1/5 (iii) 1/9
(ii) 3/16 (iv) 9/20

## Section B

21. Find the domain and range of the function f(x) $=\sqrt{9 - x^2}$.

22. Find the modulus and argument of the complex number $\frac{1+i}{1-i}$.

Or

Find the multiplicative inverse of $2-3i$.

23. 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 of same suit
    (ii) Are face cards

Or

A committee of 7 has to be formed from 9 boys and 4 girls. In how many ways can this be done when the committee consistsof:
    (i) Exactly 3 girls
    (ii) Atleast 3 girls

24. Find the distance of the point (3, -5) from the line 3x-4y-26=0.
25. Evaluate: $\lim_{x\to 0} \frac{\sin 4x}{\sin 2x}$.

or

Evaluate: $\lim_{x\to 2} \frac{3x^2-x-10}{x^2-4}$.

26. Compute the derivative of f(x)= $sin^2x$.

**Section C**

27. In a survey it was found that 21 people liked product A, 26 liked product B and 29 liked product C. if 14 people liked products A and B, 12 people liked products C and A, 14 people liked product B and C and 8 liked all the three products. Find how many liked product C only.
28. Line through the points (-2, 6) and (4, 8) is perpendicular to the line through the points (8, 12) and (x, 24). Find the value of x.
29. The coefficients of the $(r-1)^{th}$, $r^{th}$ and $(r+1)^{th}$ terms in the expansion of $(x+1)^n$ are in the ratio 1:3:5. Find n and r.

Or

Find a if the $17^{th}$ and $18^{th}$ terms of the expansion $(2+a)^{50}$ are equal.

30. (i) Find the equation of the parabola which is symmetric about the y-axis and passes through the point (2, -3).

    (ii)Find the equation of the ellipse, whose length of major axis is 20 and foci are (0, $\pm$5).

31. Show that the points A(1, 2, 3), B (-1, -2, -1), C (2, 3, 2) and D (4, 7, 6) are vertices of a parallelogram ABCD, but it is not a rectangle.

Or

Find the lengths of the medians of the triangle with vertices A (0, 0, 6), B (0, 4, 0) and C (6, 0, 0).

32. (i) A die is rolled. Let E be the event "die shows 4" and F be the event "die shows even number". Are E and F mutually exclusive?
    (ii)A coin is tossed. If the outcome is head, a die is thrown. If the die shows up an even number, the dice is thrown again. What is the sample space for the experiment?

**Section D**

33. Prove that $cos^2x + cos^2\left(x+\frac{\pi}{3}\right) + cos^2\left(x-\frac{\pi}{3}\right) = \frac{3}{2}$.

Or

Prove that $\frac{\cos 4x+\cos 3x+\cos 2x}{\sin 4x+\sin 3x+\sin 2x} = \cot 3x$.

34. Solve the following system of inequality graphically

$$3x + 2y \leq 150$$
$$x + 4y \leq 80$$
$$x \leq 15, y \geq 0$$

35. The pth ,qth and rth terms of an A.P are a, b, c respectively. Show that

$$(q - r)a + (r - p)b + (p - q)c = 0$$

Or

Let S be the sum, P be the product and R the sum of reciprocals of n terms in a G.P. prove that $P^2R^n = S^n$.

36. Find the mean, variance and standard deviation using short cut method

| Height | 70-75 | 75-80 | 80-85 | 85-90 | 90-95 | 95-100 | 100-105 | 105-110 | 110-115 |
|---|---|---|---|---|---|---|---|---|---|
| No of children | 3 | 4 | 7 | 7 | 15 | 9 | 6 | 6 | 3 |

Or

Calculate mean, variance and standard deviation for the following distribution

| Classes | 30-40 | 40-50 | 50-60 | 60-70 | 70-80 | 80-90 | 90-100 |
|---|---|---|---|---|---|---|---|
| Frequency | 3 | 7 | 12 | 15 | 8 | 3 | 2 |

……

# ST. PBN PUBLIC SCHOOL, GURUGRAM
## ANNUAL EXAMINATION
## CLASS - XI
## PHYSICAL EDUCATION

**TIME: 3 Hours** **MM: 70**

**NAME: _____** **DATE: _____**

*General Instructions*:

*1) The question paper consists of 5 sections and 37 Questions.*

***2) Section A** consists of question 1-18 carrying 1 mark each and is multiple choice questions. **All questions are compulsory.***

***3) Sections B** consist of questions 19-24 carrying 2 marks each and are very short answer types and should not exceed 60-90 words. **Attempt any 5.***

***4) Sections C** consist of Question 25-30 carrying 3 marks each and are short answer types and should not exceed 100-150 words. **Attempt any 5.***

***5) Sections D** consist of Question 31-33 carrying 4 marks each*

***6) Section E** consists of Question 34-37 carrying 5 marks each and are short answer types and should not exceed 200-300 words. **Attempt any 3.***

| Q.NO | **SECTION A** | MARKS |
|---|---|---|
| **1.** | Coaching Career is a_____career in Physical Education.<br>a) Ancient<br>b) Modern<br>c) Original<br>d) Traditional | **1** |
| **2.** | In which Olympics, the Olympic flag was hoisted for the first time?<br>a) 1920 Antwerp<br>b) 1924 Paris<br>c) 1928 Amsterdam<br>d) 1932 Los Angeles | **1** |
| **3.** | What is the meaning of 'Fortius'?<br>a) Faster<br>b) Bigger<br>c) Higher<br>d) Stronger | **1** |
| **4.** | The process to concentrate on some object or point without blinking is called _____<br>a) Basti<br>b) Dhouti<br>c) Tartaka<br>d) Neti | **1** |

| | | |
|---|---|---|
| **5.** | _____is done to the stomach.<br>a) Dhugdh neti<br>b) Jal neti<br>c) Dhouti<br>d) Tartaka | **1** |
| **6.** | Given below are the two statements labelled Assertion (A) and Reason (R).<br>**Assertion: (A)** "Disability is physical since it relates to physical functioning of body parts including sense organs."<br>**Reason: (R) "**Illness like cancer, heart attack or diabetes causes majority of long term physical disability".<br>In the context of the above two statements, which one of the following is correct?<br>a) Both (A) and (R) are true and (R) is the correct explanation of (A).<br>b) Both (A) and (R) are true, but (R) is not the correct explanation of (A).<br>c) (A) is true, but (R) is false.<br>d) (A) is false, but (R) is true. | **1** |
| **7.** | Which of the following is NOT a component of Physical Fitness?<br>a) Speed<br>b) Endurance<br>c) Strength<br>d) Cardiovascular endurance | **1** |
| **8.** | Rohit's height is 5 feet 1 inch measured with the help of stadiometer. The 5 feet 1 inch is an example of_____,<br>a) Test<br>b) Measurement<br>c) Evaluation<br>d) Assessment | **1** |
| **9.** | Match the following;<br><table><tr><th>LIST I</th><th colspan="2">LIST II</th></tr><tr><td>a. Heart</td><td>(i)</td><td>Carry blood to the heart.</td></tr><tr><td>b. Arteries</td><td>(ii)</td><td>Carry blood away from the heart.</td></tr><tr><td>c. Veins</td><td>(iii)</td><td>Prevent the blood flowing backward.</td></tr><tr><td>d. Valves</td><td>(iv)</td><td>Cone shaped muscular organ.</td></tr></table><br><table><tr><th colspan="5">CODES</th></tr><tr><td>a)</td><td>(iv)</td><td>(ii)</td><td>(i)</td><td>(iii)</td></tr><tr><td>b)</td><td>(i)</td><td>(ii)</td><td>(iii)</td><td>(iv)</td></tr><tr><td>c)</td><td>(iii)</td><td>(iv)</td><td>(ii)</td><td>(i)</td></tr><tr><td>d)</td><td>(ii)</td><td>(i)</td><td>(iv)</td><td>(iii)</td></tr></table> | **1** |
| **10.** | The scientific study that deals with structure of human body is called_____.<br>a) Biology<br>b) Physiology | **1** |

| | | |
|---|---|---|
| | c) Anatomy<br>d) Kinesiology | |
| **11.** | The circular motion combining flexion, extension, adduction and abduction is called:<br>a) Inversion<br>b) Elevation<br>c) Circumduction<br>d) Extension | **1** |
| **12.** | The term flexion refers to:<br>a) Turning<br>b) Bending<br>c) Twisting<br>d) Straightening | **1** |
| **13.** | Moving a part away from your body is called_____.<br>a) Adduction<br>b) Abduction<br>c) Supination<br>d) Pronation | **1** |
| **14.** | During_____stress, tension and strife are common. | **1** |
| **15.** | 'Psyche' is related to:<br>a) Behaviour<br>b) Science<br>c) Soul<br>d) None of these | **1** |
| **16.** | Which one of the following is a physical doping method?<br>a) Anabolic steroids<br>b) Beta blockers<br>c) Peptide hormones<br>d) Gene doping | **1** |
| **17.** | Cramps and dehydration are side effects of_____.<br>a) Stimulants<br>b) Anabolic steroids<br>c) Corticosteroids<br>d) Diuretics | **1** |
| **18.** | Owing to systematic training the resting heart rate of a Marathon runner will _____.<br>a) Decrease<br>b) Increase<br>c) Remain normal<br>d) Become critical | **1** |
| | **SECTION – B** | |
| **19.** | Mention the rules of competitions in ancient Olympics. | **2** |
| **20.** | Write a note on Asanas. | **2** |
| **21.** | Discuss 'Body Composition' as a component of health-related fitness. | **2** |

| | | |
|---|---|---|
| **22.** | Write any two functions of circulatory system. | **2** |
| **23.** | Differentiate between ‘Task Cohesion’ and ‘Social Cohesion’. | **2** |
| **24.** | Differentiate between Autologous and Homologues blood doping. | **2** |
| | **SECTION-C** | |
| **25.** | Briefly write a note on IOC. | **3** |
| **26.** | Enlist the importance of yoga and explain any TWO. | **3** |
| **27.** | Differentiate between cognitive and physical disability. | **3** |
| **28.** | Discuss about any THREE components of physical fitness. | **3** |
| **29.** | Discuss any THREE factors that affect team cohesion. | **3** |
| **30.** | Mention the anti-doping rules set forth by WADA. | **3** |
| | **SECTION – D** | |
| **31.** | Elaborate Khelo India programme in detail. | **4** |
| **32.** | Explain any four causes of disability. | **4** |
| **33.** | Elaborate freely movable joints with suitable examples. | **4** |
| | **SECTION – E** | |
| **34.** | Explain the objectives of Physical Education in detail. | **5** |
| **35.** | Elucidate the importance of Test, Measurement and evaluation in sports. | **5** |
| **36.** | Define Doping. Discuss the Physical methods of doping. | **5** |
| **37.** | Enlist and explain any two classifications of test in Physical Education and sports. | **5** |

# ST. PBN PUBLIC SCHOOL
# ANNUAL EXAMINATION
# CLASS -XI
# HISTORY
# SAMPLE PAPER

**Time Duration -3 Hours** **M.M. 80**

## General Instructions

**(i)** Question Paper comprises five Sections- A, B, C,D and E. There are 34 questions in the question paper. All questions are compulsory.

**(ii)** Section A- Question 1 to 21 are MCQs of 1 mark each.

**(iii)** Section B- Question no. 22 to 27 are Short Answer Type Questions, carrying 3 marks each. Answer to each question should not exceed 60-80words.

**(iv)** Section C- Questions no 28 to 30 are Long Answer Type Questions, Carrying 8 marks each. Answer to each question should not exceed 300-350 words each.

**(v)** Section D- Question no. 31 to 33 are Source Based questions and are of 4 marks each.

**(vi)** Section E- Question no. 34 is Map based, carrying 5 marks.

## Section-A (1X21=21)

**Q1. The emperor who made Christianity the official religion in the Roman Empire was**

a. Alexander
b. Augustus
c. Constantine
d. Nero

**Q2. In the 2000 BCE, the city that flourished as the royal capital of Mesopotamia was**

a. Ur
b. Mari
c. Uruk
d. None of the above

**Q.3What was known as the yam?**

a. Courier system
b. Army system
c. Cavalry system
d. Administration system

**Q4. Who was Gilgamesh in Mesopotamian Civilization?**

**a. A King**
**b. An Epic**
**c. All**
**d. None**

**Q5 Assertion (A). Gaul was renamed as France.**

**Reason (R) : On the decline of the Roman empire, Franks, a German tribe renamed it France for their tribe name being Franks.**

**Reasons(R): The Romans have efficient administration, economic prosperity, happy and prosperous life.**

a. Both A and R are true, and R is the correct explanation of A.
b. Both A and R are false
c. A is correct but R is not correct.
d. R is correct but A is not correct.

**Q.6 St. Benedict monasteries was established _____**

a. Italy
b. Burgundy
c. Britain
d. France

**Q.7 Match the following:**

| **Column A** | **Column B** |
|---|---|
| **(A) Sun Yat Sen** | **1.Life Weekly** |
| **(B) Zao Taofan** | **2. Founder of Modern China** |
| **(C) Lenin** | **3. Elected as first President of South -Korea** |
| **(D) Syngman Rhee** | **4. Third International** |

**Choose the correct option:**

a. 2 , 3 , 1 , 4
b. 4 , 2 , 1 , 3
c. 3 , 4 , 2 , 1
d. 2 , 1 , 4 , 3

**Q.8. Read the statements carefully and choose the correct option:**
**i) Copernicus could not get published his De Revolution bus because of poverty of courage.**
**ii) Recognition of knowledge of product of observations and experiment filled the environment with the air of natural sciences i.e., Physics, Chemistry, Biology etc.**
Choose the correct option:

a. Only i is true.
b. Only ii is true.
c. Both i and ii true
d. Neither i nor ii

**Q9.Who is considered as the greatest historian of early China?**

a. Sima Qian
b. Liang Qichao
c. Kume Kunitake
d. Mateo Ricci

**Q10. The term Fukoku-kyohei means_____.**

**Q.11 The oldest artefacts found in America, an arrow- point is _____ years old.**

a. 10,000
b. 11,000
c. 15,000
d. 21,000

**Q12. The earliest universities in Europe had been set up in _____ town.**

a. Italian
b. British
c. Spanish
d. None of these

**Q.13The universities of Padua and Bologna had been centres of**

a. Medicine
b. Legal studies.
c. Literature
d. Commerce

**Q. 14 Cassandra Fedele was?**

a. Women humanist
b. Orator1
c. Curator
d. Professor

**Q.15 When did slavery end in America?**

a. 1787
b. 1865
c. 1770
d. 1492

**Q16. When is the National Sorry Day celebrated in Australia?**

a. 26 May
b. 24 June
c. 18 July
d. 19 January

**Q17. Under whose leadership did China become a Republic?**

a. Mao Zedang
b. Liang Kichao
c. Dr. sanyat Sen
d. Kang Youwei

**Q.18 Which commander of America signed a settlement treaty with Japan?**

a. Shogun
b. Sanyat Sen
c. Columbus
d. Mathew Perry

**Q.19 Which of the following is not a Japanese script?**

a. Hirangana
b. Kanji
c. Katakana
d. Roman

**Q.20 Identify the following image and write its name.**

**Q.21 When was Olympic Games organised in Japan?**

## SECTION B

## SHORT ANSWER TYPE QUESTIONS (3X6=18)

**Q22** What do ancient stories tell us about the civilization of Mesopotamia**?**

**OR**

Describe the physical feature of North America?

**Q.23** What did the East India Company do in South Asia**?**

**Q.24** Give some facts to show geographical diversities that existed in Iraq.

**Q.25** Discuss the reason for the failure of Mao's Great Leap Forward.

**Q.26** What do you know about Sun Yat Sen's three principles?

**Q.27** What were the main characteristics of Renaissance.

## SECTION C

## LONG ANSWER TYPE QUESTIONS (8X3=24)

**Q28.** Discuss the features of the lifestyle of the native peoples of North America.

Or

What is meant by Renaissance? Discuss its main characteristics.

**Q.29** Why did the Europeans start to come and settle down in America during 19th century? Explain.

Or

What do you understand by manorial estates? Describe its few characteristics.

**Q.30** Genghis Khan laid special emphasis on discipline in the army". Keeping this statement in your mind, describe the rules formulated by him in the sphere of military administration.

Or

How did technological changes affect agriculture during 11th century?

**Q.31**Discuss the important part of Meiji reform of the economy.

OR

What were the causes that led to the decline of feudalism in Europe?

# SECTION D

**SOURCE BASED QUESTIONS (4X3=12)**

**Q31. Read the following source carefully and answer the questions that follow:**

**The Lutheranism**

William Tyndale (1494-1536), an English Lutheran who translated the bible intoEnglish in 1506, defended Protestantism thus; ‘ In this they be all agreed, to drive you from the knowledge of the scriptures, and that they shall not have the text thereof in the mother tongue, and to keep the world still in the darkness, to the intent they might sit in the consciences of the people, through vain superstition and false doctrine, to satisfytheir proud ambition and insatiable covetousness’ and toexalt their own honour above king and emperor and above god.himself… which things only moved me to translate the New Testament.Because I had perceived by experience, how that it was impossible to establish the lay- people in any truth, except the scriptures were plainly laid before their eyes in their mother-tongue, that they mightsee the process, order and meaning of the text.

**Questions:**

What was the campaign launched against the church? 1

What was the Counter reformation? 2

What is the idea given by William with regard to bible? **1**

**Q32.Read the following source carefully and answer the questionsthatfollow:**

**`**

**The Warka Head**

**This woman’s head was sculpted in white marble at Uruk before 3000 BCE. The eyes and eyebrows would probably have taken lapis lazuli (blue) and shell (white) and bitumen (black) inlays, respectively. There is a groove along the top of the head, perhaps for an ornament. This is a world-famous piece of sculpture, admired for the delicate modelling of the women’s mouth, Chin and cheeks. And it was modelled in a hard stone that would have been imported from a distance.**

**Questions:**

**1.** Where was the woman’s head sculpture discovered? What was it called? How old was this? **(2)**

**2.** What were its unique characteristics? **(1)**

**3.** Why is it a world-famous sculpture? Which qualities of this sculpture made him so famous**?** **(1)**

**Q33.Read the following source carefully and answer the questions that follow: 4**

Thomas Jefferson, third President of the USA, and a contemporary of Wordsworth, spoke of the natives in words that would lead to a public outcry today: This unfortunate race which we have been taking so much pains to civilize… have justified extermination**.**

(i) Who was Thomas Jefferson? (1)

(ii) Why was Thomas Jefferson known for? (1)

(iii) What were his views about native Americans? (2)

## SECTION E

## MAP SKILL BASED QUESTION (5)

**Q34.**1 Locate the following on an outline map of world. (Any Five) (1x5=5)

a) Australia
b) North Korea
c) Gaul
d) Mediterranean Sea
e) Mexico
f) France

# ST. PBN PUBLIC SCHOOL,GURUGRAM
# ANNUAL EXAMINATION
# SUBJECT- POLITICAL SCIENCE
# (SAMPLE PAPER)
# CLASS – XI

**Time: 3 HRS** **MM:80**

## GeneralInstructions:

i. All questions are compulsory.
ii. Question numbers 1-12 are multiple choice questions of one mark each.
iii. Question numbers 13-18 are of 2 marks each. Answers to these questions should not exceed 50 words each.
iv. Question numbers 19-23 are of 4 marks each. Answers to these questions should not exceed 100 words each.
v. Question numbers 24-26 are passage, cartoon and map-based questions of 4 marks each. Answer accordingly.
vi. Question numbers 27-30 are of 6 marks each. Answers to these questions should not exceed 170 words.
vii. There is an internal choice in 6 marks questions.

### SECTION A

**Q1**.In how many paragraphs are our fundamental rights given?

(a) Articles 12 to 32

(b) Articles 14 to 35

(c) Articles 14 to 32

(d) Articles 12 to 35

**Q2**. OnwhatbasisaretheeligibilitytocontestelectionsinIndia?

(a) Age

(b) Income

(c) Gender

(d) Education

**Q3**.Which of the following is not an essential qualification for a judge of the Supreme Court?

(a) He must be a citizen of India.

(b) He must be an honorable Judge.

(c) At least 10 years of experience as a lawyer in the High Court.

(d) He has been in the High Court for at least 5 years.

**Q4**. By which article of the constitution can the provincial government give the subject of the eleventh schedule to the panchayat?

A) Article 243

B) Article 143

C) Article 75

D) Article 150

**Q5**.Minimum Age for the members of Rajya Sabha is

(a) 30 years

(b) 35 years

(c) 40 years

(d) 45 years

**Q6**. Which officer has been given the responsibility of election of Panchayati Raj Institutions?

a) Chief Election Commissioner,

b) Prime Minister

c) Sarpanch,

d) Election Commissioner of the state

**Q7**._____reservation has been arranged for women in Panchayati Raj institutions

**Q8**.Which of the following is not the main decision cannot be appealed in the Supreme Court against the decision issued by which Court? Jurisdictions of the Hight Court of a state?

(a) Original Jurisdictions

(b) Appellate

(c) Supervisory

(d) Advisory

**Q9.** Which of the following means of obtaining citizenship of the state?

(a) Long term housing

(b) Government job

(c) Marriage

(d) All of the above

**Q10**.Right to life is a _____.

(a) Social Rights

(b) Economic Rights

(c) Political Rights

(d) Cultural Rights

**Q11**. In which of his books has John Rawls described the principle of distributive justice?

(a) The Theory of Justic

(b) The Republic

(c) The Democracy

(d) The Politics

**Q12**.The specialty of a secular state is –

(a) The state has no religion

(b) Religious freedom

(c) Equality in all religions

(d) All of the above.

## SECTION-B

**Q13.**Under what circumstances can fundamental rights be suspended?

**Q14.**Explain any one advantage of bicameral legislature.

**Q15**.What is a secret ballot system?

**Q16**.What is meant by the principle of collective responsibility?

**Q17**.Explain any two areas of political theory.

**Q18.**What duty does a citizen have towards other citizens?

## SECTION -C

**Q19**. Why are many states not happy about the role of state governor?

**Q20**.Describe appellate jurisdiction of the Supreme Court.

**Q21.**Write the difference between the Fundamental Rights and Directive Principles.

**Q22**.Political principles are essential for the successful running of a democratic government in a country. How?

**Q23.** Justice is a complete process in itself, yet why special emphasis has been laid on social justice in India?

## SECTION- D

**Q24**.Read the following passage carefully and answer the following questions.

While another state is in a state of dispute with the Center on the question of more autonomy and its 'share of sources of income, on the other hand, there are many examples of mutual disputes in states beyond the boundaries in the federal system. It is true that legal disputes the judiciary plays the role of a panch, but the nature of these disputes is not just legal, these disputes also have political aspects, so the best solution can only be based on discussion and mutual trust.

(a) Why is there a dispute between the Center and the states?

(b) Give one reason for mutual dispute among the states

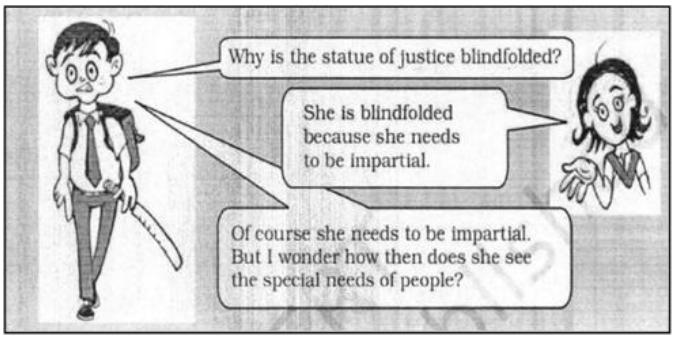
(c) Who can resolve legal disputes, how the political aspect of disputes can be resolved

**Q25**.Read the following passage carefully and answer the following questions.

Although there was enormous diversity and countless variations among people, there was a tremendous impression of unity everywhere which kept us connected to people irrespective of the political fortune or misfortune we had to face.

(a) Whose statements above?
(b) The variety and diversity the author is talking about.

**Q26.** Study the cartoon and answer the given questions-




(i) What does justice mean?

(ii) What does special needs signify?

(iii) Does the doctrine of special needs obstruct the path of justice? Write your thoughts.

SECTION -E

**Q27**.What are the major irritants in center-state relations in India? Give some recommendations to solve the issue.

OR

How has the independence and impartiality of the judiciary in India been ensured?

**Q28**.Compare the powers of the Rajya Sabha and the Lok Sabha, which is more

powerful and why?

OR

Give the distinction between the Political Executive and the Permanent Executive.

**Q29**.What steps has the Government taken to eradicate economic/social and gender inequality in India?

OR

Differentiate between political, economic and cultural rights. Give examples of each kind of right.

**Q30**.Describe Indian constitution as a ‘bag of borrowings.

OR

Discuss the need of constitution.

# ST. PBN PUBLIC SCHOOL,GURUGRAM

## ANNUAL EXAMINATION

## Class XI

## Economics

## Sample Paper

**Time : 3 hours** **Maximum Marks: 80**

**General Instructions:**

**1.** This question paper contains two sections:Section A – Statistics for Economics Section B – Introductory Microeconomics

**2.** This paper contains 20 Multiple Choice Questions type questions of 1 mark each.

**3.** This paper contains 4 Short Answer Questions type questions of 3 marks each to be answered in 60 to80 words.

**4.** This paper contains 6 Short Answer Questions type questions of 4 marks each to be answered in 80 to 100 words.

**5.** This paper contains 4 Long Answer Questions type questions of 6 markseach to be answered in 100 to 150 words.

### Section A

**1.** _____is the root of all economic problems. (1)

a) Abundance

b) Allocation

c) Wants

d) Scarcity

**2.** Sampling scheme where the units constituting the sample are selected at regular interval after selecting thevery first unit at random with equal chance is called (1)

a) Cluster sampling

b) Stratified sampling

c) Systematic random sampling

d) Purposive sampling

**3.** Suppose the correlation coefficient between heights (as measured in feet) versus weight (as measured in pounds) is 0.40. What is the correlation coefficient of height measured in inches versus weight measured inounces? [12 inches = one foot; 16 ounces = one pound] (1)

a) 0.533

b) 0.40

c) 0.30

d) cannot be determined from information given

**4.** Continuous variable assumes _____

a) Increase in jumps (1)

b) Both A range of values and Increase in jumps

c) None of these

d) A range of values

.

**5.** ____is the benchmark index for the Indian stock market. (1)

a) Price index

b) Agricultural index

c) Sensex

d) None of these

**OR**

_____in which current year quantities are used (1)

a) Fisher's

b) Laspeyre's

c) Paasche's

d) None of these

**6.** A person who actually collect the desired information is called_____. (1)

a) Respondents

b) population

c) Investigator

d) Enumerator

**OR**

One of the drawbacks of the Direct personal investigation method is____. (1)

a) It is very costly and time taking process

b) Lacks reliability

c) Questions might be misinterpreted

d) Difficult to get original data

**7.** Which of the following statement can be called Statistics? (1)

a) Technology of Japan is very advanced.

b) In our school there are 5000 students.

c) India has per capita income of Rs. 20,000 p.a.

d) USA is the richest country in the world.

**8.** Calculate the correlation coefficient of the marks obtained by 12 students in mathematics and statistics and interpret it (1)

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Marks (in Maths)** | 50 | 54 | 56 | 59 | 60 | 62 | 61 | 65 | 67 | 71 | 71 | 74 |
| **Marks (in statistics)** | 22 | 25 | 34 | 28 | 26 | 30 | 32 | 30 | 28 | 34 | 36 | 40 |

a) 0.76

b) 0.78

c) 0.77

d) +0.75

**9. Assertion (A):** Prepaid postage stamps should be affixed. (1)

**Reason (R):** Informants should be required to spend for posting the questionnaires back.

a) Both A and R are true and R is the correct explanation of A.

b) Both A and R are true but R is not the correct explanation of A.

c) A is true but R is false.

d) A is false but R is true.

**10.Assertion (A):** Special purpose tables are small in size and design to highlight a particular set of facts insimple and analytical forms. (1)

**Reason (R):** Special purpose tables are made to provide the results of the analysis in an ineffective way sothat one finds it easy to make comparisons and clear relationships.

a) Both A and R are true and R is the correct explanation of A.

b) Both A and R are true but R is not the correct explanation of A.

c) A is true but R is false.

d) A is false but R is true.

**11.** Simple average of price relative method of computing index number suffers from certain limitations. Enumerate those limitations. (3)

**12.** Calculate mode from the following data. (3)

| Marks | 0-10 | 10-20 | 20-30 | 30-40 | 40-50 | 50-60 |
|---|---|---|---|---|---|---|
| Number of Students | 4 | 10 | 20 | 35 | 15 | 6 |

**OR**

Find out the median of the data given below by arranging them in ascending order (3)

| X | 160 | 150 | 152 | 161 | 156 |
|---|---|---|---|---|---|
| Frequency | 5 | 8 | 6 | 3 | 7 |

**13.** The marks obtained by 25 students in a class are as follows: (4)

22, 28, 30, 32, 35, 37, 40, 41, 43, 44, 45, 45, 48, 49, 52, 53, 54, 56, 56, 58, 60, 62, 65, 68, 69

i. Arrange the above data in the form of a frequency distribution taking class interval. 20-29, 30-39, 40-49,50-59, 60- 69

ii. Form the less than cumulative frequency distribution also.

**14.** Construct a frequency polygon without using histogram for the following data. (4)

| Wages (in Rs.) | Number of Workers |
|---|---|
| 0-10 | 10 |
| 10-20 | 18 |
| 20-30 | 35 |
| 30-40 | 30 |
| 40-50 | 20 |
| 50-60 | 12 |
| 60-70 | 8 |
| 70-80 | 3 |

**OR**

Construct a histogram for the following frequency distribution.

| Marks Obtained | Number of Students |
|---|---|
| 1-10 | 4 |
| 11-20 | 6 |
| 21-30 | 12 |
| 31-40 | 20 |
| 41-50 | 8 |
| 51-60 | 10 |

**15.** i. Write any three uses of index number especially in economics. (4)

ii. Calculate the weighted average of price relative index for 2016 on the basis of 2012 from the following data.

| Commodity | W | p0 | p1 |
|---|---|---|---|
| | | 2012 | 2016 |
| A | 10 | 15 | 20 |
| B | 8 | 10 | 12 |
| C | 6 | 5 | 8 |
| D | 6 | 10 | 13 |
| E | 4 | 4 | 5 |

**16.** Calculate the correlation coefficient between the height of fathers in inches (X) and their sons (Y). (6)

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **X** | 65 | 66 | 57 | 67 | 68 | 69 | 70 | 72 |
| **Y** | 67 | 56 | 65 | 68 | 72 | 72 | 69 | 71 |

**17.** Determine the missing frequencies when mode = 36 and total frequency is 30. (6)

| **Class Interval** | 10-20 | 20-30 | 30-40 | 40-50 | 50-60 |
|---|---|---|---|---|---|
| **Frequency (f)** | - | 5 | 12 | - | 2 |

**OR**

Calculate arithmetic mean from the following data using step deviation method. (6)

| Size | 20-29 | 30-39 | 40-49 | 50-59 | 60-69 |
|---|---|---|---|---|---|
| Frequency | 10 | 8 | 6 | 4 | 2 |

## Section B

**18.** Which of the following statements is correct? (1)

a) Stock and supply are always equal.

b) Stock refers to the quantity which comes to market for sale.

c) Supply does not depend on government's tax policy.

d) There is difference between supply and stock.

**19.** A point outside the PPF indicates:

a) Fuller utilization of resources

b) Unattainable combination (1)

c) Attainable combination

d) Under utilization of resources

OR

Which of the following illustrates a decrease in the unemployment using the PPC ? (1)

a) A movement from a point inside the PPC to a point towards the PPC

b) A movement from a point on the PPC to a point inside the PPC

c) A movement down along the PPC

d) A rightward shift of the PPC

<

**20.** When a firm's TR TC, it can still cover its normal profit (1)

a) TRUE

b) None of these

c) Can't say

d) False

**OR**

In case of perfect competition: (1)

i. a firm is able to charge higher price

ii. a firm is able to charge uniform price

iii. a firm is able to sell any amount at the prevailing price

a) only i

b) Both ii and iii

c) only ii

d) only ii

**21.** Which of the following statement is true? (1)

i. Average Revenue and Marginal Revenue curves have a positive slope.

ii. MR curve lies above AR curve. (AR > MR)

iii. Marginal Revenue falls twice the rate of Average Revenue.

iv. So long as Marginal Revenue decreases and is negative, Total Revenue increases at adiminishing rate. a) only iii

b) only i

c) only iv

d) only ii

**22.** Money costs mean (1)

a) Money expenditure of a producer in the production process

b) Money expenditure on purchase of goods from the factory

c) Money spent by the consumers

d) Money expenditure on output

**23.** The substitute goods of a normal good are those that can be used (1)

a) Does not exist

b) Along with each other

c) In place of each other

d) Together

**24.** What happens to total revenue when Marginal revenue is zero (1)

a) TR rises

b) TR falls

c) TR is maximum and constant

d) TR is also zero

**25.** Can the AC be less than the MC when AC is falling (1)

a) None of these

b) Can't say

c) No

d) Yes

**OR**

Total cost is the vertical summation of: (1)

a) TFC and TVC

b) AFC and AVC

c) none of these

d) AFC and AVC

**26. Assertion (A):** Total expenditure goes in the same direction as the price does. (1)

**Reason (R):** With rising in the price of a commodity total expenditure decreases and with a fall in itsprice total expenditure increases.

a) Both A and R are true and R is the correct explanation of A.

b) Both A and R are true but R is not the correct explanation of A.

c) A is true but R is false.

d) A is false but R is true.

**27. Assertion (A):** Each point on the indifference curve shows one combination of two commodities.

**Reason (R):** Each combination offers the same level of satisfaction to theconsumer.

a) Both A and R are true and R is the correct explanation of A. (1)

b) Both A and R are true but R is not the correct explanation of A.

c) A is true but R is false.

d) A is false but R is true.

**28.** Define marginal opportunity cost along with a PPC. (3)

**29.** Explain any two factors that affect Price Elasticity of Demand. (3)

**OR**

Price Elasticity of Demand of a good is (-) 0.75. Calculate the percentage fall in its price that will result in 15%rise in its demand.

**30.** A and B are complementary goods. Explain the effects of change in price of A on demand for B. (4)

**31.** From the following schedule, find out the level of output at which the producer is in equilibrium. Give reasons for your answer. (4)

| Output (Units) | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| Price (Rs.) | 24 | 24 | 24 | 24 | 24 | 24 | 24 |
| Total Cost | 26 | 50 | 72 | 92 | 115 | 139 | 165 |

**OR**

From the following Total Cost and Total Revenue schedule of a firm, find out the level of output, using Marginal Cost and Marginal Revenue approach, at which the firm would be in equilibrium. Give reasons for your answer. (4)

| **Output (units)** | **Total Revenue (Rs)** | **Total Cost (Rs)** |
|---|---|---|
| 1 | 10 | 9 |
| 2 | 18 | 15 |
| 3 | 24 | 21 |
| 4 | 28 | 25 |
| 5 | 30 | 33 |

**32.** Define a budget line. When can it shift to the right? (4)

**33.** Calculate the MP of variable factor and indicate the various phases of Law of Variable Proportions from thefollowing schedule: (6)

| **Units of variable factor** | 0 | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|---|
| **TP (in units)** | 0 | 50 | 110 | 150 | 180 | 180 | 150 |

**34.** Suppose the demand and supply curves of salt are given by: (6)

$q_D = 1{,}000 - p$

$q_S = 700 + 2p$

**a.** Find the equilibrium price and quantity.

**b.** Now suppose that the price of an input used to produce salt has increased so that the new supply curve is $q_S = 400 + 2p$

How do the equilibrium price and quantity change? Does the change confirm to your expectation?

**c.** Suppose the government has imposed a tax of Rs 3 per unit of sale of salt.

How does it affect the equilibrium price and quantity?

**OR**

Explain the outcome of the following features of a perfectly competitive market. (6)

**i.** Freedom to the firms to enter the industry.

**ii.** Freedom to the firms to leave the industry.