Assignment-V Session (2020-21)

Subject- Maths (Arun Kr. Singh- 8210432541)

Question number 1 to 10 MCQ and other subjective:

1. If $(x + 1)$ is a factor of the polynomial $(2x^2 + kx)$, then value of k is
   (a) -2   (b) 2
   (c) -3   (d) None

2. The value of $(249)^2 - (248)^2$ is
   (a) 477   (b) 487
   (c) 497   (d) None

3. If $\frac{x}{y} + \frac{y}{x} = -1$ where $x \neq -1$ where $x \neq 0, y \neq 0$ then value of $(x^3 - y^3)$ is
   (a) 1   (b) -1
   (c) 0   (d) None

4. If $\left(3x + \frac{1}{2}\right)\left(3x - \frac{1}{2}\right) = (9x^2 - p)$ then value of p is
   (a) 0   (b) $\frac{-1}{4}$
   (c) $\frac{1}{4}$ (d) None

5. $(104 \times 96) = ?$
   (a) 9894   (b) 9984
   (c) 9684   (d) None

6. $(x^2 - 4x - 21) = ?$
   (a) $(x - 7(x - 3)$ (b) $(x + 7(x - 3)$
   (c) $(x - 7(x + 3)$ (d) None

7. If $P(x) = x + 4$ then $p(x) + p(-x) = ?$
   (a) 0   (b) 4
   (c) 8   (d) None

8. $\sqrt{3}$ is a polynomial of degree
   (a) $\frac{1}{2}$ (b) 2
   (c) 1   (d) None

9. Which of the following is a linear polynomial?
   (a) $x^2 + x$ (b) $5x^2 - x + 3$
   (c) $x + 1$ (d) None

10. Zero of the polynomial $p(x) = 2x + 5$ is
    (a) $\frac{2}{5}$ (b) $\frac{5}{2}$
    (c) $\frac{-5}{2}$ (d) None

11. The polynomials $(2x^3 + x^2 - ax + 2)$ and $(2x^3 - 3x^2 - 3x + a)$ when divided by $(x - 2)$ leave the same remainder. Find the value of a.

12. Find the values of a and b so that the polynomial $(x^3 - 10x^2 + ax + b)$ is exactly divisible by $(x - 1)$ and $(x - 2)$

13. If $(x - 2)$ and $\left(x - \frac{1}{2}\right)$ are factors of $px^2 + 5x + r$, prove that p=r

14. Factorise:
    $(ax + by)^2 + (bx - ay)^2$

15. Factorise: $x^2 - y^2 + 6y - 9$
16. Factorise: $4x^4 + 7x^2 - 2$
17. Expand: $(a + 2b + 5c)^2$
18. If a+b+c=10 and ab+bc+ca=20. Find the value of $a^2 + b^2 + c^2$
19. Factorise: $x^6 - 7x^3 - 8$
20. If x+y=12 and xy=27, find the value of $(x^3 + y^3)$

Subject- Chemistry (Hare Ram Prasad Gupta- 6200083843)

A. Very Short Answer Questions:
1. What is the dispersion medium in a gel?
2. Which is a reversible change:
   Physical charge or chemical change.
3. Is air a mixture or a compound?
4. Brass is a homogeneous mixture of two metals. Name these.
5. Name a metal which is liquid at room temperature.

B. Short Answer Questions:
6. The 'sea water' can be classified as a homogeneous as well as heterogeneous mixtures. Comment.
7. What do you understand by?
   i) Saturated solution   ii) Unsaturated solution
8. Name two elements which are liquid at room temperature.
9. What is meant by a pure substance? Give any two examples of it.
10. 36g of sodium chloride is dissolved in 164g of water at 293k. Find its concentration.
11. Name the technique to separate
    i) salt from sea-water   ii) butter from curd.
12. What is meant by?
    i) a solute and   ii) a solvent in a solution
13. Why is the path of light not visible in a solution when a beam of light is passed through it?
14. Define a mixture. Is its composition fixed or variable?
15. How will you justify that rusting of iron is a chemical change?

C. Long Answer Question:
16. What are solution, colloids and suspensions? How do these differ?
17. Define the following terms:
    i) Dispersed phase   ii) Dispersion medium
    iii) Evaporation.
18. Explain the differences between:
    i) Compound and mixture.   ii) Physical and chemical changes
19. State the principle involved in separating a mixture of kerosene and water.
20. Give an example for each of the following:
    i) Solid-liquid homogeneous mixture
    ii) Gas-gas homogeneous mixture
    iii) Liquid- liquid homogeneous mixture.

Subject- Physics (Rahul Kumar- 9939729373)

1. What is the S.I unit of force and estabilish the relation between S.I unit of force and C.G.S unit of force.
2. State Newton's 2nd law of motion.
3. Define momentum. What is its unit?

4. Prove that impulse is equal to change in momentum.
5. What is the gravitational unit of force and estabilish its relation with S.I unit of force.
6. What is balanced and unbalanced force?
7. State law of inertia.
8. A bus covers 50m in 10 seconds and 150m in 40 seconds. Calculate the average speed.
9. What is average velocity?
10. Write the unit of acceleration.
11. Write all the three equation of uniformly accelerated bodies.
12. What do you mean by uniform circular motion?
13. An athlete covers 200 revolutions in 40 seconds around a circular track of radius 7m. Calculate the distance and displacement.
14. What is the acceleration produced in a body when a force of 20N acts on a body of mass 100kg.
15. Solve graphically 2nd equation of motion for uniformly accelerated body.

Subject- Biology (Rahul Jha- 9631022032)
CHAPTER: DIVERSITY IN LIVING ORGANISMS

1. Who proposed binomial nomenclature?
2. What is the name of the book written by Charles Darwin?
3. Who proposed five kingdom system of biological classification?
4. Name the smallest unit in the taxonomic hierarchy.
5. Name the two classes of the division Angiosperm.
6. Give two examples of the kingdom Protista.
7. Which plants are known as amphibians of the plant kingdom?
8. What common name is given to members of the phylum phatyhelmin this?
9. Name the mammal which lay eggs.
10. Why do you classify organisms?
11. What is the criterion for classification of organisms as belonging to kingdom Monera or Protista?
12. How are pteridophytes different from the phanerogams?
13. How do gymnosperms and angiosperms differ from each other?
14. What are the differences between amphibians and reptiles?
15. Explain how animals in vertebrate are classified into further sub-groups?

Subject- Hindi (C. N. Jha- Mob. No. 9334006244)

1. अलंकार किसे कहते हैं? अलंकार के कितने भेद होते है?
2. अनुप्रास, यमक एवं उपमा अलंकार की परिभाषा लिखकर प्रत्येक के एक–एक उदाहरण लिखें।
3. i) कवि रसखान के अनुसार गोपी कृष्ण का सब स्वांग भरने को तैयार है, लेकिन वह मुरली को नहीं अपनाना चाहती है, क्यों?
   ii) किस शासन की तुलना तम के प्रभाव से की गई है और क्यों?
   iii) कवि माखनलाल चतुर्वेदी हथकड़ियों को अंगेजी सरकार का गहना क्यों मान रहा है?
   iv) 'कैदी और कोकिला' में कवि ने किसकी करनी को काला बताया है और क्यों?
4. i) 'साँवले सपनों की याद' पाठ के आधार बतायें कि किस घटना ने सालिम अली के जीवन की दिशा को बदल दिया और उन्हें पक्षी–प्रेमी बना दिया?
   ii) 'बर्ड वाचर' से क्या अभिप्राय है? 'साँवले सपनों की याद' पाठ के आधार पर स्पष्ट कीजिए कि कौन इस उपाधि के योग्य थे?
5. शिक्षक और छात्र के मध्य देर से आने पर हुई बातचीत को अपने शब्दों में लिखिये।
6. ''वृक्ष धरा के भूषण हैं'' विषय पर दिए गए संकेत बिन्दुओं के आधार पर एक निबंध लिखिए।

संकेत बिंदु– • वृक्ष और मानव जीवन • जन–जीवन में वृक्षों की भूमिका • वृक्ष संरक्षण में हमारा योगदान • उपसंहार।

Subject- Sanskrit (C. N. Jha- Mob. No. 9334006244)

1. अ) वर्ण संयोजनं कुरत–
   (i) क् + अ + र् + म् + अ + व् + ई + र् + अः   = _____
   (ii) क् + प + अ + त् + र् + इ + य् + अः   = _____
   ब) वर्ण विन्यासं कुरत–
   (i) विद्यार्थी   (ii) यज्ञः   (iii) क्षेत्रज्ञः

2. संधिविच्छेदं संधि का कृत्वा लिखत–
   (i) निः + बलः   (ii) नीरसम्   (iii) जगदीश्वरी
   (iv) गण + अधिपः   (v) खगेशः

3. प्रकृति प्रत्ययं संयोज्य विभज्य वा लिखत– (प्रकृति–प्रत्यय को जोड़कर या अलग कर लिखें।)
   (i) प्र + नम् + ल्यप्   (ii) गम् + क्त्वा   (iii) वि + हस् + ल्यप्
   (iv) नी + तुमुन्   (v) दृश् + क्त्वा   (vi) कृ + तुमुन्
   (vii) आनीय   (viii) हनतुम्

4. निम्नलिखितानाम् श्लोकानाम् अर्थ हिंदी भाषायां लिखत– श्लोकं च कंठस्थ कुरत– (अर्थ लिखें एवं श्लोक याद करें।)
   i) कार्यमह्मतनीयं यत् तदद्यैव विधीयताम्।
      विपरीते गतिर्यस्य स कष्टं लभते ध्रुवम्।।
   ii) आदानसय प्रदानसय कर्तव्यस्य च कर्मणः।
      क्षिप्रम क्रियमाणस्य कालः पिबति तद्रसम्।।
   iii) सुविचार्य विधातव्यं कार्यं कल्याण काङ्क्षिणा।
      यः करोत्य विचार्यैतत् स विषीदति मानवः।।

5. निम्नलिखितानां वाक्यानां संस्कृतेऽनुवादं कुरत–
   i) हिमालय भारत के उत्तर में अवस्थित है।
   ii) यह महिला घर से मंदिर गई।
   iii) हमलोग समय पर कार्य करते हैं।
   iv) तुमलोग भी वहाँ खेलने जाओ।
   v) यह मंदिर शिव का हैं
   vi) तीन लड़कियाँ उपवन में घूमती हैं।
   vii) हमसब नवम वर्ग के छात्र हैं।
   viii) तुमलोगों की परीक्षा कब होगी?

Subject- English (Rakhi Jha- 9431089877)

1. Answer the following.
   a) What are the things the child sees on his way to the fair? Why does he lag behind?
   b) When does he realise that he has lost his way?
   c) How does Toto come to grandfather's private zoo?
   d) "Toto was a pretty monkey" In what sense is Toto pretty?

2. Change the voice.
   a) You will not disturb me.
   b) I was not doing my work.
   c) She has read this book.

d)   Shut the door.
3.   Read the extracts given below and answer the questions that follow.
      Rusk hour Crowds Jostle for position on the ground train plat form. A slight girl, looking younger than her seventeen years was nervous yet excited as she felt the vibrations of the approaching train.
      a)   What did the rush hour crowds do?
      b)   How old was Evelyn when she went to the Royal Academy of music?
      c)   What were Evelyn's feelings at the underground train platform?
      d)   How could she know about the approaching train?
4.   Rearrange the following words into a meaningful sentence.
      a)   The/Indian/English/Exploited/the/farmers.
      b)   Pay/the/had to/Poor farmers/high times/very
5.   Fill in the blanks with the connect forms of the verbs given in the brackets.
      a)   Water_____ on heating. (Evaporate)
      b)   Two aeroplanes_____ flying in the sky. (be)

Subject- Political Science (S. C. Pandey- 9576265515)

1.   What do you mean by Constituent Assembly?
2.   Name some of the international events that inspired and helped Indian in making of the constitution.
3.   Who was the President of the Constituent Assembly?
4.   How many members did the Constituent Assembly have that wrote the Indian Constitution?
5.   Who was the chairman of the Drafting committee of the Indian Constitution?
6.   When did the Indian Constitution come into force?
7.   Why should we accept the constitution made by the Constituent Assembly more than 70 years ago?
8.   Who is called the Father of Indian Constitution?
9.   Write the importance of preamble.
10.   What do you mean by philosophy?
11.   Define the following term:
      a) Sovereign   b) Socialist   c) Secular   d) Democratic
      e) Republic
12.   Why is India called 'a Republic?
13.   India is a secular country prove it by giving example.
14.   What do you mean by constitutional Amendments? What is its importance?

Subject- Geography (G. N. Jha - 9431872861)

1.   Distinguish between Northern plains and peninsular plateau.
2.   What is Khadar and Bhangar?
3.   Describe any three geographical condition of the peninsular plateau.
4.   Describe any five features of the coastal plains.
5.   Explain any five differences between Western Ghats and Eastern Ghats.
6.   Give a brief description about two Island grows of India.
7.   What is corals? Name and describe the Island group which is of coral origin.
8.   What is a River Pattern? Name any four patterns formed by the Rivers.
9.   What is meant by water divide? Give an example.
10.   How are Indian rivers divided?
11.   Peninsular rivers are not navigable. Explain why.
12.   What is Indus Water Treaty?
13.   Which is the largest river basin in India?

14. How do the Himalayan rivers perform erosional activities and form depositional features?
15. Compare the east flowing and the west flowing rivers of the peninsular plateau.

Subject- Economics (Shashi Shekhar Suman - 9934228288)

1. How many percent of the people in Palampur are engaged in farming?
2. What is the main reason of growing three different types of crops in Palampur?
3. Which is most common non-farming activity in Palampur?
4. How many people are involved manufacturing in Palampur at present?
5. What is Gross Domestic Product?
6. How is human resource developed?
7. What are the major determinants of earnings?
8. What is life expectancy?
9. Why has primary school system not been effective in India?
10. On what factors does the quality of population depend?
11. What are the steps taken by the government to reduce infant mortality rate?
12. Mention any two consequences of unemployment.
13. What is work force population?
14. What happens in disguised unemployment? Give an example?
15. Why is Educated unemployment a peculiar problem in India?
16. Define unemployment. Explain any four causes of unemployment in India?
17. Discuss the three problems in the field of health in India.
18. Give three differences between traditional farming method and modern farming method.
19. How did the spread of electricity help farmers in Palampur?
20. Define factors of production. Explain the four factors of production.

Subject- History (Niranjan Dubey - 7781031623)
"Socialism in Europe and the Russian Revolution"

1. What does the term "conservative" mean?
2. What according to socialism was the root of all evils in society?
3. List name of two advocates of cooperatives.
4. Where and when was the first Socialist Government formed?
5. Name the Tsar in whose reign the Revolution broke out.
6. Who was the leader of Bolshevik Party?
7. Who among the workers were aristocrats?
8. Who succeeded to power after Lenin?
9. Describe the four major demands of Russian Revolutionaries before the Russian Revolution of 1917.
10. What were the main causes of the Russian Revolution of 1905?
11. What led to civil war in Russia?
12. Describe any three events leading to the February revolution of 1917 in Russia.
13. Why socialists were against private property?
14. What is meant by "October Revolution"?
15. What is "Bloody Sunday" Explain?
16. Explain the ideology of three power groups present in the Russian Society the Liberals. The Radicals and the conservatives.
17. State the three demands of "Lenin's April Theses".
18. What were the effects of October Revolution?
19. Describe the impact of Russian Revolution on the world.
20. How did the Revolution of 1905 prove to be dress-rehearsal of the revolution of 1917?

Students are instructed to complete the assignment-V carefully and submit it till **10 August, 2020** on the Whatsapp no. of your respective subject teachers. It is compulsory to attempt all questions.
In case of any doubt, you can call the concerned subject teacher on the provided contact number. The marks obtained will be counted in your Internal Assessment. For any problem related to school app or downloading of assignment please contact :- **9470283176**