

## Atomic Energy Education Society

Annual Examination -2021-22

Class :VII

Time:3Hrs.

Subject: English

Marks:80

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### General Instructions:

Section A Reading 20 marks.

Section B Writing 20 marks.

Section C Grammar 20 marks.

Section D Literature 20 marks.

1. Attempt all the questions.
  2. Don't write anything on the question paper.
  3. All the answers must be correctly numbered as in the question paper and written in the answer sheet.
  4. Do not copy the questions.
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### SECTION A (READING)

**20marks.**

1. Read the passages given below and answer the questions that follow: **10marks.**

Soon the drum made of tamarind wood was ready. The courtiers assembled outside the king's door and the royal musician began to play. But instead of the thumthumthum that everyone expected, the Tamarind drum intoned, "The raja has horns on his head. The raja has horns on his head". The court burst out laughing and the king cried with rage. "I won't stay in the palace a moment longer," he shouted. "I'll go to the forest and live by myself." He tore the nightcap off his head and ran out of the palace, seizing the Tamarind drum on his way out.

The king lived for several years in the forest. He gradually learnt about the beauty of the world around him. He learnt to care for creatures smaller than himself. Gradually he grew strong, wise and selfless. His only companion was the Tamarind drum, and the drum, when he beat it, gave him all the advice and experience of the old tree. He learnt to play it so beautifully that even the spirits of the trees were charmed and they went to meet the God who had given him the horns.

1.1 Based on the passage above, chose the right options from the ones given below: (6x1=6)

a. Soon the drum made of \_\_\_\_\_ was ready.

- (i) Tamarind wood      (ii) Rosewood      (iii) Teakwood      (iv) Sandalwood

b. The tamarind drum intoned, “The Raja has \_\_\_\_\_ on his head”.

- (i) Cap      (ii) Horns      (iii) hair      (iv) hat

c. The king could not remain in the palace as

- (i) He was cursed      (iii) everybody laughed at him  
(ii) He was not humble      (iv) he was angry and ashamed

d. The king lived in the forest for \_\_\_\_\_

- (i) 2 years      (ii) 5 years      (iii) several years      (iv) 10 years

e. In the forest, the king learnt about the \_ of the world around him.

- (i) beauty      (ii) birds      (iii) nature      (iv) animals

f. The king became a better human being as

- (i) he had to live alone in the forest      (ii) his companion taught him so  
(iii) he grew strong, selfless and wise      (iv) he learnt to play the Tamarind drum

1.2 Answer the following briefly in about 20 to 30 words each: (2x2=4)

a. Why did the king become angry?

b. What did the king learn in the forest?

2. Read the passages given below and answer the questions that follow: 10marks

A homeopathy is a form of alternative medicine, first proposed by German physician Samuel Hahnemann in 1796 that attempts to treat patients with heavily diluted medicines. Homeopathic remedies are prepared by serial dilution with shaking by forceful striking, which homeopaths term succussion after each dilution under the assumption that this increases the effect of the treatment. Homeopaths call this process potentization. Dilution often continues until none of the original substance remains.

Homeopathic reference books known as repertories are then consulted, and a remedy is selected based on the totality of symptoms. Homeopathic remedies are considered safe, but

Modern homeopaths have proposed that water has a memory that allows homeopathic preparations to work without any of the original substance; however, there are no verified observations nor scientifically plausible physical mechanisms for such a phenomenon. The lack of convincing scientific evidence supporting homeopathy's efficacy and its use of remedies lacking active ingredients have caused homeopathy to be described as pseudoscience.

a. Homeopathy treats patients with:

- b. Homeopathic remedies are prepared by serial dilution with shaking by forceful striking, the procedure is known as

- c. A report of UK states that homeopathy is not more useful than a placebo because after dilution the medicine don't contain any.

- d. Homeopathy is also termed as pseudoscience because:

- e. The word in the passage which means the same as the facts /objects that make you believe that something is true:

- f. The word in the passage which means the same as 'treatment' is

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2.2 Answer the following briefly in about 20 to 30 words each: (2x2=4)

- a. How are Homeopathic remedies prepared?
- b. What is a homeopathy?

**SECTION-B (WRITING)**

**20marks.**

3. You are Ramesh/ Anjali Sharma of class VII. You have lost wrist watch in the playground. Draft a notice for the school notice board, informing the students about it.

(Word limit 40-50 words)

1x5=5

4. Write an application to the Principal of your school requesting him to grant you two days'

leave to attend your brother's marriage. (80-100 words)

1x7=7

5. With the help of the given outlines, develop a readable story:

1x8=8

The mice in a house \_\_\_\_\_ afraid of the cat \_\_\_\_\_ hold a meeting \_\_\_\_\_ one proposes to tie a bell round the cat's neck \_\_\_\_\_ all agree \_\_\_\_\_ who is to bell the cat? No mouse offers \_\_\_\_\_ the cat appears \_\_\_\_\_ all run away.

**SECTION C (GRAMMAR)**

**20marks.**

6. The following passage has not been edited. There is one error in each line. Write the incorrect word and the correct word as given in the example against the correct blank number in your answer sheet. Do not copy the whole passage:

8x1/2=4

	Error	Correction
Parents and children in the primary e.g. and of		
or the secondary schools is looking	(a) .....	.....
out for part-time jobs who they can	(b) .....	.....
manage to do when children be away	(c) .....	.....
at school. Manage canteens of their	(d) .....	.....
own child's school will gave them a	(e) .....	.....
very good opportunity. When there is a	(f) .....	.....
holiday they will also have an break as	(g) .....	.....
the canteen will not worked when	(h) .....	.....
the school is closed.		

7. Fill in the blanks in the sentences below with words from the box. You may use a word more than once. 1x4=4

carbon	cause	fire	smother
--------	-------	------	---------

- a. Gandhiji's life was devoted to the ..... of justice and fair play.
- b. Have you insured your house against .....?
- c. Diamond is nothing, but ..... in its purest form.
- d. If you put too much coal on the fire at once you will ..... it.

8. The underlined words helper, companion, partner and accomplice have very similar meanings, but each word is typically used in certain phrases. Fill in the blanks below with the most commonly used words. 1x4=4

- a. business .....
- b. my ..... on the journey.
- c. I'm mother's little .....
- d. the thief's .....

9. Rearrange the words to make meaningful sentences: 1x4=4

- a. giant/in/a/house/lived/big/a
- b. house/had/the/garden/a/beautiful
- c. let/enter/he/anyone/never/garden/his
- d. would/whenever/children/he/come/some/was/away

10. Complete the following passage by choosing the most appropriate option from the ones given below: 1x4=4

Even though we have (i) \_\_\_\_\_ the 21st century, more than a billion people (ii) \_\_\_\_\_ in extreme poverty. 40 million people are (iii) \_\_\_\_\_ with AIDS. 104 million children do not (iv) \_\_\_\_\_ access to school and 860 million adults cannot read or write.

- |                     |             |              |             |
|---------------------|-------------|--------------|-------------|
| (i) (a) entering    | (b) entered | (c) enter    | (d) enters  |
| (ii) (a) live       | (b) lived   | (c) living   | (d) lives   |
| (iii) (a) infecting | (b) infect  | (c) infected | (d) infects |
| (iv) (a) have       | (b) had     | (c) has      | (d) having  |

**SECTION D (LITERATURE)****20marks.**

11. Read the extract from a poem given below and choose the right answer from the options given: 3x1=3

This morning a cat got  
Stuck In our tree.  
Dad said. "Right, just  
Leave It to me."

- (i) The family found a cat  
(a) that was hurt (b) In their house (c) that was stuck in their tree (d) that was hungry  
(ii) Dad said that things would be put right by  
(a) the family (b) him (c) his wife (d) the cat  
(iii) Give the synonym for stuck  
(a) freed (b) trapped (c) slept (d) struck

12. Answer the following questions briefly in 30 to 40 words: 3x2=6

- a. Why did Nishad and Maya get a holiday?  
b. What are some common uses of fire?  
c. The Parsis were the first Indian community to take to cricket. Why?

13. Answer the following questions briefly in 30 to 40 words: 3x2=6

- a. Why did Chandni hate the rope round her neck?  
b. When was the bear tied up with a chain? Why?  
c. "I became one of the tiger's favourites." Who is I in the statement? Why did he think so?

14. 'Power needs control'. Do you agree or not? Give your response in reference to the text 'Fire: Friend and Foe'. 1x5

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वार्षिक परीक्षा (Annual Exam.) -2021-22

कक्षा - सातवीं (VII)

विषय -हिंदी (द्वितीय भाषा)

समय:-3

घंटे पूर्णांक:80

- सामान्य निर्देश:- प्रश्नपत्र को ध्यानपूर्वक पढ़कर पूछे गए प्रश्नों के उत्तर वर्तनी-शुद्धि एवं सुलेख को ध्यान में रखते हुए लिखिए।
- इस प्रश्नपत्र में चार खण्ड दिए गए हैं—खण्ड अ , ब, स और द ।
- खण्ड 'अ' में अपठित गद्यांश एवं पद्यांश पर आधारित बहुविकल्पीय प्रश्नों के उत्तर पूछे गए हैं।
- खण्ड 'ब' में व्याकरण (भाषा की बात आधारित) प्रश्न पूछे गए हैं। कुछ प्रश्नों में आंतरिक विकल्प भी दिए गए हैं।
- खण्ड 'स' में (पाठ्यपुस्तक एवं पूरक पुस्तक पर आधारित) प्रश्न पूछे गए हैं। इन प्रश्नों में भी आंतरिक विकल्प भी दिए गए हैं।
- खण्ड 'द' रचना भाग से संबंधित है।

**खण्ड 'अ' (अपठित गद्यांश एवं पद्यांश पर आधारित)**

**प्रश्न1. निम्नलिखित अपठित गद्यांश को पढ़कर नीचे लिखे प्रश्नों के उत्तर दीजिए:-(1X7=7)**

संसार में सबसे मूल्यवान वस्तु समय है क्योंकि दुनिया की अधिकांश वस्तुओं को घटाया-बढ़ाया जा सकता है, पर समय का एक क्षण भी बढ़ा पाना व्यक्ति के बस में नहीं है। समय के बीत जाने पर व्यक्ति के पास पछतावे के अलावा कुछ नहीं होता। विद्यार्थी के लिए तो समय का और भी अधिक महत्व है। विद्यार्थी जीवन का उद्देश्य है—शिक्षा प्राप्त करना। समय के उपयोग से ही शिक्षा प्राप्त की जा सकती है। जो विद्यार्थी अपना बहुमूल्य समय खेल-कूद, मौज-मस्ती तथा आलस्य में खो देते हैं वे जीवन भर पछताते रहते हैं, क्योंकि वे अच्छी शिक्षा प्राप्त करने से वंचित रह जाते हैं और जीवन में उन्नति नहीं कर पाते। मनुष्य का कर्तव्य है कि जो क्षण बीत गए हैं, उनकी चिंता करने के बजाय जो अब हमारे सामने हैं, उसका सदुपयोग करें।

(क) समय को सबसे अमूल्य वस्तु क्यों कहा गया है?

(i) इसका एकक्षण भी घटाया-बढ़ाया नहीं जा सकता

(ii) समय व्यक्ति के वश में नहीं है।

(iii) समय ही व्यक्ति के जीवन को बदल सकता है

(iv) मनुष्य उस समय की गति को नहीं रोक सकता

**(ख) विद्यार्थी जीवन का उद्देश्य है-**

- (i) जीवन को सुखी बनाना
- (ii) गुरुओं का आदेश मानना
- (iii) व्यक्ति के जीवन में समय का महत्व
- (iv) शिक्षा प्राप्त करना

**(ग) विद्यार्थी जीवन भर क्यों पछताते रहते हैं?**

- (i) क्योंकि वे आलसी होते हैं।
- (ii) जो अपना कीमती समय मौज मस्ती और आलस्य में खो देते हैं।
- (iii) जो ज्ञान प्राप्त नहीं करते।
- (iv) जो विद्यार्थी माता-पिता और गुरुओं की आज्ञा का पालन नहीं करते।

**(घ) समय के संबंध में व्यक्ति का क्या कर्तव्य बताया गया है?**

- (i) परिश्रम करें
- (ii) मन लगाकर पढ़ाई करें
- (iii) बीते समय के बारे में पश्चाताप न करके वर्तमान समय का सदुपयोग करें
- (iv) असफल होने पर निराश न हों, पुनः प्रयास करें।

**(ङ) उपर्युक्त गद्यांश का उपयुक्त शीर्षक सुझाइए -**

- (i) समय का सदुपयोग
- (ii) समय और मनुष्य
- (iii) विद्यार्थी और समय
- (iv) अमूल्य समय

**(च) समय के उपयोग से ही क्या प्राप्त की जा सकती है?**

- (i) दुनिया
- (ii) शिक्षा
- (iii) दान
- (iv) दुःख

**(छ) 'दुनिया' शब्द का समानार्थक (पर्यायवाची) शब्द क्या है?**

- (i) संसार
- (ii) जाति
- (iii) रहीम
- (iv) देश



**प्रश्न2. निम्नलिखित अपठित पद्यांश को पढ़कर नीचे लिखे प्रश्नों के उत्तर दीजिए :- (1X7=7)**

भारत माता का मंदिर यह, समता को संवाद जहाँ।  
सबका शिव कल्याण यहाँ पाएँ सभी प्रसाद यहाँ।  
जाति-धर्म या संप्रदाय का, नहीं भेद व्यवधान यहाँ।  
सबका स्वागत, सबका आदर, सबका सम्मान यहाँ।  
राम-रहीम, बुद्ध ईसा का, सुलभ एक-सा ध्यान यहाँ।  
भिन्न-भिन्न भव संस्कृतियों के, गुण-गौरव का ज्ञान यहाँ।  
नहीं चाहिए बुद्धि वैर की, भला प्रेम उन्माद यहाँ।  
सब तीर्थों का एक तीर्थ यह, हृदय पवित्र बना लें हम।  
रेखाएँ प्रस्तुत हैं, अपने मन के चित्र बना लें हम।  
सौ-सौ आदर्शों को लेकर, एक चरित्र बना लें हम।  
कोटि-कोटि कंठों से मिलकर, उठे एक जयनाद यहाँ।  
सबका शिव कल्याण यहाँ है, पाएँ सभी प्रसाद यहाँ।

**(क) कवि किस मंदिर की बात कर रहा है?**

- (i) शिव मंदिर
- (ii) शक्ति मंदिर
- (iii) राम सीता मंदिर
- (iv) भारत माता

**(ख) जाति, धर्म, संप्रदाय का भेद कहाँ नहीं है?**

- (i) भारत-माता मंदिर में
- (ii) हनुमान मंदिर में
- (iii) शिव मंदिर
- (iv) बौद्ध मंदिर

**(ग) सब का आदर सम्मान कहाँ होता है?**

- (i) भारत देश में
- (ii) ईरान
- (iii) चीन में
- (iv) पाकिस्तान में

**(घ) पद्यांश में 'नफ़रत' शब्द का विलोम क्या है?**

- (i) देश
- (ii) ईरान
- (iii) प्रेम
- (iv) तीर्थ

(ड) 'पिता' शब्द का स्त्रीलिंग बनाने के लिए निम्नलिखित में से कौन-सा विकल्प सही है?

- (i) देश
- (ii) माता
- (iii) प्रेम
- (iv) बुद्धि

(च) 'कंठ' शब्द का समानार्थक शब्द क्या है?

- (i) देश
- (ii) गला
- (iii) दुश्मन
- (iv) प्रसाद

(छ) पद्यांश में कवि हृदय को कैसा बनाना चाहता है?

- (i) पवित्र
- (ii) कल्याण
- (iii) प्रेम
- (iv) रेखा

खण्ड 'ब' में व्याकरण (भाषा की बात आधारित)

**प्रश्न:3-** नीचे दिए गए व्याकरण के बहुविकल्पीय प्रश्नों के उत्तर लिखो:- (1X16=16)

1. 'कृष्ण' का पर्यायवाची शब्द कौन-सा है?(1)

(क) राम      (ख) मोहन      (ग) सोहन      (घ) गिरधर

2. निम्नलिखित में रिक्त स्थान की पूर्ति के लिए कौन-सा विकल्प उचित है? (1)

सप्ताह + ----- = साप्ताहिक ।

(क) इक    (ख) अक    (ग) क    (घ) हिक

3. कोष्ठक में दिए गए शब्दों में से उचित शब्द चुनकर रिक्त स्थानों की

पूर्ति कीजिए:-

(1X3=3)

(क) मेंढक पानी में ----- कूद गया ।    ( छप से / धप से)

(ख) शोर होते ही चिड़िया ----- उड़ गई।(फुर्र से / जर्र से )

(ग) नल बंद होने के बाद पानी की एक बूँद ----- चू गई। ( तप से / टप से)

4. 'पक्षी' के लिए पर्यायवाची शब्द का सही विकल्प निम्नलिखित में से कौन-सा है? (1)

(क) खग (ख) हिक (ग) मन (घ) जन

5. संधि के लिए कोष्ठक में दिए गए शब्दों में से उचित शब्द चुनकर रिक्त स्थानों की

पूर्ति कीजिए:-

(1X2=2)

(क) नील + आभ = -----

( नीलाभ/ निलभ )

(ख ) सिंह + आसन = -----

(सिंहसन/सिंहासन)

6. 'वचन' बदलने के लिए कोष्ठक में दिए गए शब्दों में से उचित शब्द चुनकर

रिक्त स्थानों की पूर्ति कीजिए:-

(1X3 = 3)

(क) नीति- -----

(नीतियों / नितियों )

(ख) सलामी -----

(सलामीयों / सलामियों )

(ग) गोलियों - ----- (गोलियाँ / गोली)

7. 'हवा' का पर्यायवाची कौनसा नहीं है?

(1)

(क) समीर(ख) वायु (ग) अनिल (घ) अनल]

8. निम्नलिखित वाक्यों में रिक्त स्थानों की पूर्ति कोष्ठक में दिए गए उचित

शब्द को चुनकर कीजिए:-

(1X 3 =3 )

[ठंडी अँधेरी रात, स्वच्छरंगीन कपड़े, खट्टी-मीठी गोलियाँ]

(क) सुनिधि अपने जन्मदिन पर ----- पहनेगी।

(ख ) ----- में राधा को घूमना पसंद नहीं है।

(ग ) दादाजी को कभी-कभी ----- खानी पड़ती है।

9. 'मोहन को ताज़ा भोजन पसंद है।' निम्नलिखित में से कौन-सा शब्द विशेषण के लिए सही

विकल्प है?

(क) मोहन (ख) ताज़ा (ग) भोज(घ) खाता ----- (1)

खण्ड 'स' में (पाठ्यपुस्तक एवं पूरक पुस्तक पर आधारित)

प्रश्न:4-निम्नलिखित पठित गद्यांश को पढ़कर नीचे लिखे प्रश्नों के उत्तर दीजिए:- (2X3=6)

वीर कुँवर सिंह के बचपन के बारे में बहुत अधिक जानकारी नहीं मिलती। कहा जाता है कि कुँवर सिंह का जन्म बिहार में शाहाबाद ज़िले के जगदीशपुर में सन 1782 ई. में हुआ था। उनके पिता का नाम साहबज़ादा सिंह और माता का नाम पंचरतन कुँवर था। उनके पिता साहबज़ादा सिंह

जगदीशपुररियासत के जमींदार थे,परन्तु उनको अपनी जमींदारी हासिल करने में बहुत संघर्ष करना पड़ा।पारिवारिक उलझनों के कारण कुँवर सिंह के पिता बचपन में उनकी ठीक से देखभाल नहीं कर सके। जगदीशपुरलौटने के बाद ही वे कुँवर सिंह की पढ़ाई-लिखाई की ठीक से व्यवस्था कर पाए ।

(क) वीर कुँवर सिंह का जन्म कब और कहाँ हुआ था?

(ख)वीर कुँवर सिंह के माता और पिता का क्या नाम था?

(ग) कुँवर की बचपन में ठीक से देखभाल क्यों नहीं हो सकी?

प्रश्न:4-निम्नलिखितपद्यांशकोपढ़करनीचेलिखेप्रश्नोंकेउत्तरदीजिए:- (2X3=6)

जागोबंसीवारेललना !

जागोमोरेप्यारे !

रजनीबीती , भोरभयोहै , घर-घरखुलेकिंवारे।

गोपीदहीमथत, सुनियतहैंकंगनाकेझनकारें ।।

उठोलालजी ! भोरभयोहै , सुर-नरठाढ़ेद्वारे।

ग्वाल-बालसबकरतकुलाहल , जय-जयसबदउचारै ।।

माखन -रोटीहाथमँहलीनी , गउवनकेरखवारे।

मीराकेप्रभुगिरधरनागर,सरणआयाँकोतारै ।।

(क)इसपद्यांशमेंकिसेऔरक्योंजगानेकीबातकहीगईहै?

(ख)पद्यांशमेंगिरधरकिसेकहागयाहैऔरक्यों?

(ग)माखन-रोटीकिसेपसंदहै? 'गउवनकेरखवारे'केलिएकशब्दलिखिए।

प्रश्न:5- नीचे दिए गए के प्रश्नों के उत्तर संक्षेप में लिखिए:- (2X7=14)

(क)मोर-मोरनी के नाम किस आधार पर रखे गए?

(ख)गांधी जी पेशेवर कारीगरों के उपयोग में आने वाले औज़ार -छेनी, हथौड़े, बसूले इत्यादि क्यों खरीदना चाहते होंगे?

(ग)वसंत ऋतु में नीलकंठ के लिए जालीघर में बंद रहना असहनीय क्यों हो जाता था?

(घ)'मेजर ध्यानचंद को हॉकी का जादूगर कहा जाता है।' क्यों?

(ड)आँख में तिनका पड़ने के बाद घमंडी की क्या दशा हुई?

(च)मीरा को सावन मनभावन क्यों लगने लगा?

(छ)‘विप्लव-गायन’ कविता के माध्यम से कवि क्या करना चाहता है?

**प्रश्न:6-नीचे दिए गए दीर्घउत्तरीय प्रश्नों में से प्रत्येक के उत्तर लगभग 50 से 60 शब्दों में लिखिए:-**

**(2X4=8)**

(क) सन 1857 के आंदोलन में भाग लेने वाले किन्हीं चार सेनानियों पर दो-दो वाक्य लिखिए।

(ख)खानपान में बदलाव के कौन से फायदे हैं? फिरलेखक इस बदलाव को लेकर चिंतित क्यों है?

**प्रश्न:7- नीचे दिए गए के प्रश्नों में से किन्हीं तीन के उत्तर ‘बाल महाभारत’ कथा के आधार पर लिखें:-**

**(2X3=6)**

(क)अभिमन्यु की मृत्यु हो जाने पर अर्जुन ने क्या प्रतिज्ञा की?

(ख)महाभारत के युद्ध में दसवें दिन भीष्म की क्या दशा हुई?

(ग) द्रोणाचार्य को किसने और कैसे मारा?

(घ) श्रीकृष्ण की मृत्यु कैसे हुई?

**खण्ड ‘द’ रचना भाग**

**प्रश्न:9-अपनी दिनचर्या का वर्णन करते हुए अपने पिताजी को एक पत्र लिखिए:- (5)**

**अथवा**

पुस्तक विक्रेता से पुस्तकें मँगाने हेतु एक पत्र लिखिए।

**प्रश्न:10-निम्नलिखित में से किसी विषय पर एक अनुच्छेद लगभग 80 से 100 शब्दों में लिखिए:-**

**(5)**

(क) विज्ञान के चमत्कार

(ख) दीपावली

**ATOMIC ENERGY EDUCATION SOCIETY**  
**ANNUAL EXAMINATION-2021-22**

**Class: VII**  
**Subject: Mathematics**

**Duration: 3 Hrs.**  
**Max. Marks: 80**

**General Instructions:**

- This paper consists of 4 sections. All questions are compulsory.
- Section A is MCQ based and consists of 30 questions of 1 mark each.
- Section B consists of 4 questions each of 2 marks.
- Section C consists of 6 questions each of 3 marks.
- Section D question consists of 6 questions each of 4 marks.

**Section-A (30x1 marks = 30 marks)**

- 1) The multiplicative inverse of 0 is
 

a) not defined	b) -1
c) 1	d) 0
- 2) The cost of a pen is represented by x and that of a pencil is y. Then the algebraic expression representing the cost of 7 pens and 8 pencil is.
 

a) $8x+7x$	b) $7x+8y$
c) $7x+3y$	d) $6x+4$
- 3) What is the value of  $(3^0+4^0+5^0)$ ?
 

a) 2	b) 1
c) 3	d) None of these
- 4) The value of  $4x-3$  at  $x=2$  is
 

a) 11	b) 1
c) 5	d) None of these
- 5) Which of the following is in its standard form
 

a) $\frac{-9}{12}$	b) $-\frac{4}{9}$
c) $\frac{24}{46}$	d) $\frac{9}{-144}$

- 6) The number of faces of a cube is:
- a) 1  
b) 6  
c) 2  
d) 3
- 7) The interest on ₹5000 at the rate of 15% per annum for one month is
- a) ₹750  
b) ₹ 75  
c) ₹625  
d) ₹ 62.50
- 8) The ratio of Fatima's expenditure to her savings is 4:1. The percentage of money saved by her is :
- a) 20%  
b) 25%  
c) 40%  
d) 80%
- 9) If 90% of x is 315 km, then the value of x is
- a) 325 km  
b) 350 km  
c) 405 km  
d) 340 km
- 10) If Mohan's income is 25% more than Raman's income, then Raman's income is less than Mohan's income by
- a) 25%  
b) 80%  
c) 20%  
d) 75%
- 11) A farmer bought a buffalo for ₹ 44000 and a cow for ₹ 18000. He sold the buffalo at a loss of 5% but made a profit of 10% on the cow. The net result of the transaction is
- a) loss of ₹ 200  
b) profit of ₹ 200  
c) loss of ₹ 400  
d) profit of ₹ 400
- 12) Which of the following rational numbers is equivalent to  $(-\frac{2}{3})$ ?
- a)  $\frac{3}{2}$   
b)  $-\frac{4}{9}$   
c)  $-\frac{4}{6}$   
d)  $\frac{9}{4}$
- 13) Which of the following rational numbers is equal to its reciprocal?
- a) 1  
b) 2  
c)  $\frac{1}{2}$   
d) 0

14) The number of faces of a triangular Prism is

- a) 6
- b) 8
- c) 4
- d) 5

15) To reduce a rational number to its standard form, we divide its numerator and denominator by their

- a) LCM
- b) HCF
- c) product
- d) multiple

16) Find the value of  $(-6) \div (\frac{2}{3})$

- a) - 9
- b) 9
- c) - 4
- d) none of these

17) Which of the followings has both horizontal as well as vertical line of symmetry?

- a) S
- b) A
- c) U
- d) H

18) The value of  $(-1)^{55}$  is:

- a) - 1
- b) 1
- c) 0
- d) none of these

19) Express 256 as a power 4:

- a)  $4^6$
- b)  $2^6$
- c)  $4^4$
- d) none of these

20) The circumference of a circle whose area is  $81\pi r^2$ , is

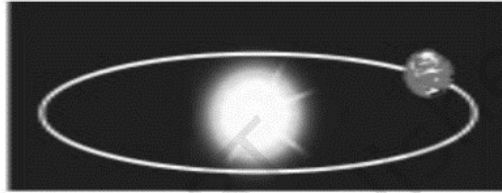
- a)  $9\pi r$
- b)  $18\pi r$
- c)  $3\pi r$
- d)  $81\pi r$



### 1. Case study based question

A light year is the distance that light can travel in one year. Light travels at a speed of 300,000 km per second. This seems really fast, but objects in space are so far away that it takes a lot of time for their light to reach us.

1 light year = 9,460,000,000,000 km.



21) One light year in standard form is

a)  $94.6 \times 10^{10}$

b)  $9.46 \times 10^{11}$

c)  $9.46 \times 10^{12}$

d)  $946 \times 10^{12}$

22) The average distance between Earth and Sun is  $1.496 \times 10^8$  km. This distance between Earth and the Sun is

a) greater than light year

b) less than light year

c) Is equal to one light year

d) none of these

23) Light year is

a) greater than  $10^{15}$  km

b) less than  $10^{19}$  km

c) is equal to  $10^{11}$  km

d) none of these

24) One light year in metres is

a)  $94.6 \times 10^{17}$

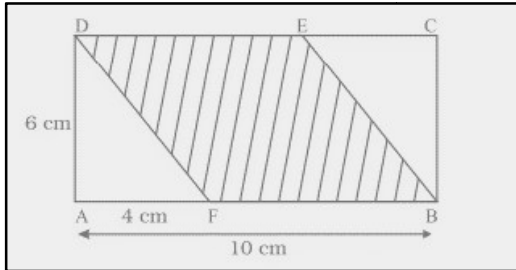
b)  $9.46 \times 10^{12}$

c)  $9.46 \times 10^{15}$

d)  $9.46 \times 10^{13}$

## 2. Case study based question

The area of a parallelogram shaped field is shown below inside a rectangular region. Looking at the figure below answer the following.



25) The area covered by the triangles  $\triangle AFD$  and  $\triangle ECB$  is

- a)  $12\text{cm}^2$
- b)  $24\text{cm}^2$
- c)  $10\text{cm}^2$
- d) none of these

26) The area covered by the parallelogram is

- a)  $22\text{cm}^2$
- b)  $40\text{cm}^2$
- c)  $36\text{cm}^2$
- d) none of these

27) The ratio of the areas of  $\triangle AFD$  and the parallelogram DEBF is

- a) 1: 2
- b) 2: 1
- c) 1: 3
- d) none of these

28) The perimeter of the rectangle ABCD is

- a) 12cm
- b) 24 cm
- c) 32 cm
- d) none of these

29) The Area of the Rectangle is

- a)  $30\text{cm}^2$
- b)  $60\text{cm}^2$
- c)  $48\text{cm}^2$
- d) none of these

30) The Ratio of Area of the rectangle ABCD and the two triangles is

- a) 5: 2
- b) 3: 5
- c) 2: 5
- d) none of these

**Section B****(4 × 2 marks = 8 marks)**

- 31) Find the whole quantity if 12% of it is ₹1080.
- 32) The perimeter of a rectangular sheet is 100 cm. If the length is 35 cm, find its breadth.  
Also find its area.
- 33) Find the sum of  $(-\frac{4}{7}) + (-\frac{3}{7}) + \frac{1}{2}$
- 34) Simplify the expression:  $12m^2 - 9m + 5m - 4m^2 - 7m + 10$

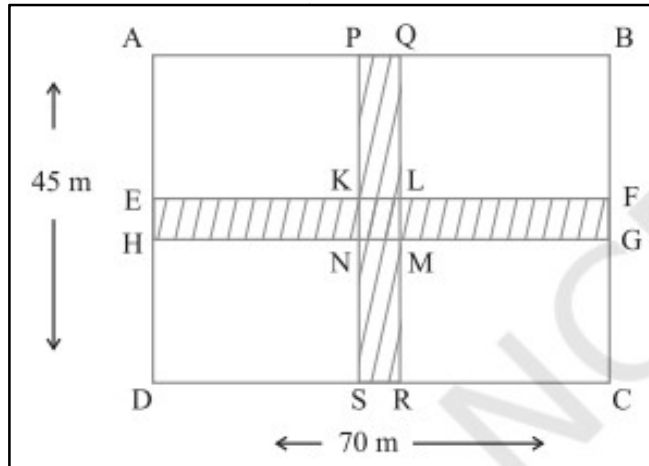
**Section C (6 × 3 marks = 18 marks)**

- 35) Anita takes a loan of ₹ 5,000 at 15% per year as rate of interest. Find the interest she has to pay at the end of 2 year. What is the total amount .
- 36) Construct  $\triangle XYZ$  in which  $XY = 4.5$  cm,  $YZ = 5$  cm and  $ZX = 6$  cm
- 37) Subtract  $24ab - 10b - 18a$  from  $30ab + 12b + 14a$
- 38) Draw the number line and represent the following rational numbers on it:  $\frac{-4}{5}$  and  $\frac{-3}{5}$
- 39) What cross-sections do you get when you give a (i) vertical cut (ii) horizontal cut to the following solids?
- a) A brick                      b) A die                      c) An ice cream cone
- 40) State True or false
- a) A circle has two lines of symmetry.
- b) An angle has two lines of symmetry.
- c). A regular hexagon has six lines of symmetry.

**Section D****(6 × 4 marks = 24 marks)**

- 41) Fill in the boxes with the correct symbol out of  $>$ ,  $<$ ,  $=$
- a)  $\frac{-1}{5}$   $\frac{-1}{7}$
- b)  $\frac{-7}{9}$   $\frac{-7}{11}$
- c)  $\frac{-15}{64}$   $\frac{-11}{40}$
- d)  $\frac{-13}{50}$   $\frac{13}{50}$
- 42) Two cross roads, each of width 5 m, run at right angles through the centre of a rectangular park of length 70 m and breadth 45 m and parallel to its sides. Find the

area of the roads. Also find the cost of constructing the roads at the rate of Rs105 per  $\text{m}^2$ . ( See the diagram)



43) Simplify:

a)  $\frac{11^8 \times 3 \times 7^2}{21 \times 11}$  b)  $\frac{3^7}{3^4 \times 3^3}$

44) Can you draw a triangle which has

- (a) exactly one line of symmetry?
- (b) exactly two lines of symmetry?
- (c) exactly three lines of symmetry?
- (d) no lines of symmetry?

Sketch a rough figure in each case wherever possible.

45) Selling price of a toy car is ₹540. If the profit made by shopkeeper is 20%, what is the cost price of this toy? If the toy car was sold at ₹585 what would be the profit percent?

46) Construct  $\triangle XYZ$  in which  $XY = 4.5$  cm,  $YZ = 5$  cm and  $ZX = 6$  cm. Construct  $\triangle LMN$ , right-angled at M, given that  $LN = 5$  cm and  $MN = 3$  cm

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# Atomic Energy Education Society

## Annual Examination-2021-22

**Class: VII**

**Time: 3 hours**

**Subject: Science**

**Marks:80**

### General Instructions:

1. This question paper comprises of two parts-Part- A and Part- B. There are 47 questions and all questions are compulsory.
2. **Part- A**;Q.No.1 to 30 are multiple choice type questions (MCQs) carrying 1mark each which includes Assertion and Reason type and Case study type questions.
3. **Part- B**;Q.No.31 to 37 are Short Answer Type-I (SA-I) questions, carrying 2 marks each.
4. **Part- B**;Q.No.38 to 44 are Short Answer Type-II (SA-II) questions, carrying 3 marks each.
5. **Part- B**;Q.No.45 to 47 are Long Answer Type (LA) questions, carrying 5 marks each.
6. Draw neat and labelled diagrams whenever necessary.

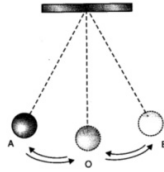
### PART A

**Q.I. Choose the correct answer.**

**(1x30=30M)**

1. Identify the gas released during treatment of sludge.  
A. Hydrogen gas    B. chlorine gas    C. biogas    D. carbon dioxide gas
2. Four students wrote a food chain in the following ways:
  1. frog→eagle→insect→grass→snake
  2. eagle→ snake → Frog→ insect→ grass
  3. grass→ Frog→ snake →eagle→insect
  4. grass→ insect→ Frog→snake→eagle
 Who has written the food chain correctly?  
A. Only 2    B. 3 and 4    C. only 4    D. 2 and 3
3. Vegetative propagation is shown by  
A. Yeast    B. spirogyra    C. fungus    D. ginger

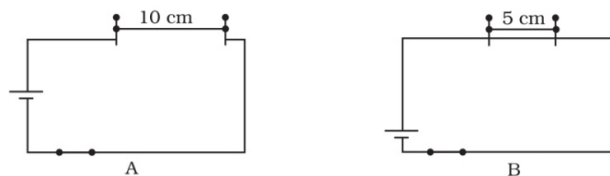
4. Observe the figure given below



The time period of simple pendulum is the time taken by it to travel from

- A. A to B and back to A
  - B. O to A, A to B and B to A
  - C. B to A, A to B and B to O
  - D. A to B
5. The distance moved by the vehicle is measured by:
- A. odometer    B. galvanometer    C. speedometer    D. thermometer
6. The magnetic effect of electric current was first observed by
- A. Faraday    B. H C Oersted    C. Ohm    D. Joule
7. Image formed by a plane mirror is always:
- A. virtual, erect    B. real, erect    C. virtual, inverted    D. real, inverted
8. At places the ground water is stored between layers of hard rock below the water table. This is known as
- A. water table    B. rain water    C. aquifer    D. infiltration
9. Branches of the tall trees which look like a roof are known as
- A. crown    B. canopy    C. understorey    D. forest
10. Fusion of male gamete and female gamete results in the formation of
- A. seed    B. embryo    C. zygote    D. ovary
11. Pollination refers to the :
- A. transfer of pollen from anther to ovary
  - B. transfer of male gametes from anther to stamen
  - C. transfer of pollen from anther to stigma
  - D. transfer of pollen from anther to ovule
12. Motion of pedal of a bicycle is
- A. circular    B. translatory    C. straight line    D. oscillatory
13. To check the excessive flow of electric current all electrical appliances should have
- A. high melting point wire    B. electric fuse    C. switch    D. electromagnet
14. Which optical device is used by dentist to see the teeth?
- A. convex mirror    B. concave mirror    C. convex lens    D. concave lens

15. Decomposers convert the dead plant and animal tissue into  
A. clay B. humus C. soil D. inorganic debris
16. Which of the following is a part of inorganic impurities of the sewage?  
A. pesticides B. urea C. phosphates D. vegetable waste
17. The distance between two stations is 240km. A train takes 4 hours to cover this distance. The speed of the train will be  
A. 40km/h B. 50km/h C. 60km/h D. 70km/h
18. Ritu took a wire of length 10 cm. Reema took a wire of 5cm of the same material and thickness. Both of them connected the wires as shown in the circuit given in Figure. The current flowing in both the circuits is the same. The heat produced in both the cases will



- A. remains same B. not be same C. keeps fluctuating D. melt the wire
19. If an object is placed at a distance of 0.5m in front of a plane mirror, the distance between the object and the image formed by the mirror will be:  
A. 2m B. 1m C. 0.5m D. 0.25m

**Question numbers 20 to 22 consists of two statements—Assertion (A) and Reason (R).**

Answer these questions by selecting an appropriate option from below:

- 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.

20. **Assertion (A):**Septic tanks, chemical toilets etc are developed where there is no sewerage system.

**Reason (R):**to improve sanitation, low cost onsite sewage disposable systems are being encouraged.

21. **Assertion (A):**Concave lens is converging lens.

**Reason (R):**when light ray falls on the converging lens it converges the light ray(bends inward).

22. **Assertion (A):**Lime water turns milky after passing exhaled air in it.

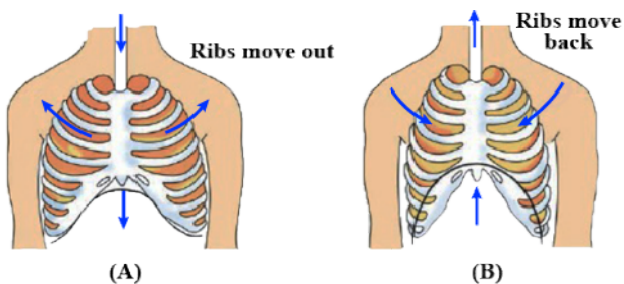
**Reason (R):**exhaled air is rich in  $\text{CO}_2$  which reacts with lime water.

**Read the following paragraph and answer the question numbers 23 to 26**

All organisms need food, water and oxygen for survival. They need to transport all these to various parts of their body. Further, animals need to transport wastes to parts from where they can be removed. Have you wondered how all this is achieved in both plants and animals?

23. Which of the following statements is INCORRECT?
- A. fluid part of blood is called plasma.
  - B. white blood cells fight against germs that may enter our body.
  - C. waste is transported through the blood in plants.
  - D. kidney removes the liquid waste in humans.
24. Identify the correct flow chart of course of circulation of blood in our body.
- A. heart → veins → capillaries → arteries → heart
  - B. heart → arteries → capillaries → veins → heart
  - C. heart → capillaries → veins → arteries → heart
  - D. heart → capillaries → arteries → veins → heart
25. In plants, xylem helps in transportation of
- A. food    B. minerals only    C. water only    D. water and mineral
26. Fish excrete their wastes in gaseous form as
- A. oxygen    B. ammonia    C. hydrogen    D. nitrogen

**Read the following paragraph and answer the question numbers 27 to 30**

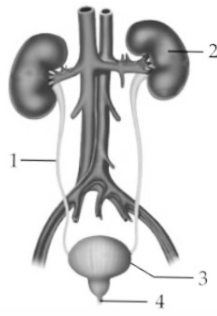


Above figure gives the mechanism of breathing in human beings. During breathing there are changes in the size of the chest cavity. During this process there is exchange of gases take place. Also it provides oxygen gas to blood for cellular respiration.

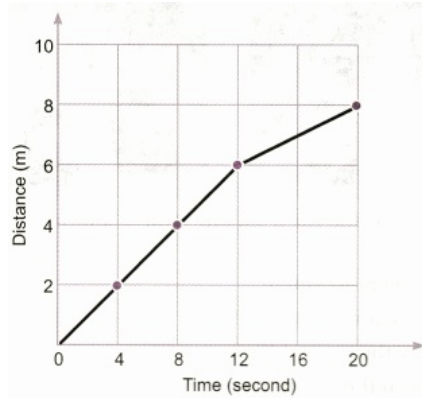
27. Observe the figure given as figure A and B. Which one is inhalation and which one is exhalation?
- A. Fig A → inhalation; fig B → exhalation
  - B. Fig A → exhalation; fig B → inhalation
  - C. Both inhalation
  - D. Both exhalation







1. Label the parts 1,2,3 and 4
  2. Write the function of 2 and 3
42. Given below is the distance-time graph of the motion an object.



- (i) What will be the position of the object at 20s?
  - (ii) What will be the distance travelled by the object in 12s?
  - (iii) What is the average speed of the object?
43. Water in a river is cleaned naturally. Do you agree? Think and explain.
44. A) Draw and label female reproductive part of flower.  
B) What would happen if seeds are not able to disperse?

**Q.IV. Answer the following questions in four to five sentences. (5x3=15M)**

45. Draw diagram of the section of human heart and mark the following
- A. Tube which carries deoxygenated blood to lungs.
  - B. Part of the heart which receives the blood from the body.
  - C. Part of the heart which distributes the blood to the body.
  - D. Blood vessel which distributes oxygenated blood from the heart to the body.
46. Name the various agents of pollination and give differences between self pollination and cross pollination. Support your answer with diagram of pollination in flower.
47. Describe various steps of cleaning wastewater in wastewater treatment plant (WWTP).

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ATOMIC ENERGY EDUCATIONAL SOCIETY

ANNUAL EXAMINATION 2021-22

Class; VII

Time: 3 hours

Subject: Social Science

Marks:80

GENERAL INSTRUCTIONS

1. All questions are compulsory.
  2. The question paper has a total of 42 questions.
  3. All the answers must be correctly numbered in the answer sheet.
  4. SECTION A:-Q. NO. 1- 30- Multiple Choice Questions (MCQ). Each question carries 1 mark.
  5. SECTION B:-Q.NO. 31- 35: Short Answer Questions (SA). Each question carries 3 marks.
  6. SECTION C: Q.NO. 36 - 41: Long Answer Questions (LA). Each question carries 5 marks.
  7. SECTION D; Q. NO. 42 is the Map Question carrying 5 marks. Use a political map of India.
  8. Attach the map properly inside your answer booklet.
- 

SECTION–A (30 Marks)

Q. NO. 1- 30- Multiple Choice Questions (MCQ). Each question carries 1 mark

- 1) Name the system which replaced Jathi system. (1)
- 2) The Brahmaputra basin is rich in deposits of \_\_\_\_\_. (1)
- 3) Tract drained by river is known as \_\_\_\_\_. (1)
- 4) True or False (1)
  - a. Democracy always promotes equality.
  - b. Consumers have some duties according to the constitution.
- 5) Electronic typewriter in Journalism was invented by \_\_\_\_\_ (1)

- 6) Give one form of Economic inequality in India. (1)
- 7) Tropical deciduous forest is also known as \_\_\_\_\_ (1)
- 8) Who were the Ahoms? (1)
- 9) Name the Gateway to Amazon Basin (1)
- 10) Highest inhabited Monastery of the world is \_\_\_\_\_ (1)
- 11) Define the term 'Censorship' (1)
- 12) What do you know about Brand? (1)
- 13) According to the Census of 2001, the population of Woman in India was \_\_\_\_\_ (1)
- a. 46%                      b 50%                      c. 48 %                      d. 30%
- 14) Brand Values are conveyed through \_\_\_\_\_ (1)
- 15) Name the forest that is known as lungs of earth. (1)
- 16) Who is an Exporter? (1)
- 17) Advertisement made by State is known as (1)
- a. Commercial
- b. Social
- c. Both (a) and (b)
- d. None of the above
- 18) Naming the product is known as \_\_\_\_\_ (1)
- 19) State True or False (1)
- a. All markets work in a single place
- b. The Prairies are found in North America
- 20) What is Hagiography? (1)
- 21) Why do you think ordinary people preserved the memory of Mirabai? (1)
- 22) Which among the following is the location of temperate evergreen forests? (1)
- (a) South China
- (b) South east USA
- (c) South east Brazil
- (d) All the above
- 23) What are Tropical evergreen forests called? (1)
- (a) Tropical dry forests
- (b) Tropical rain forests

(c) Tropical deciduous forests

(d) None of the above

24) There is scanty vegetation in the deserts. Give a reason. (1)

25) People of the Sahara desert wear heavy robes. Justify. (1)

26) The Cold desert of Ladakh is mainly inhabited by Christians and Buddhists. True or False. (1)

27) Why do we not directly buy the goods from a producer? State one point to justify it. (1)

28) What is your understanding on Regional Culture? State any one point (1)

29) Name a pass through which the Manali– Leh highway crosses? (1)

30) Name any one flora and fauna of Ladakh. (1)

### SECTION–B

#### **I. Answer the following (question no. 31 to 35) in 30 to 40 words**

31 What do temple towns represent? (3)

32 Write a short note on Life on temperate grasslands. (3)

33 State the main reason why people don't have equality in society. (3)

34 How is tourism acting as an important activity in Ganga Brahmaputra Basin? (3)

35 Differentiate between Bhakti movement and Sufi movement. (3)

### SECTION –C

#### **II a. Answer the following (question no. 36 to 41) in 50 to 60 words.**

36 Explain how a chain of markets is formed. What purpose does it serve? (5)

37 Describe the main teachings of Baba Guru Nanak. (5)

38 Who were Gond? Describe the administrative reforms of Gond kingdom. (5)

39 'Issues of Equality Are Central to a Democracy'. Explain the statement with an example. (5)

40 What are the features of tropical evergreen forests or rainforests? (5)

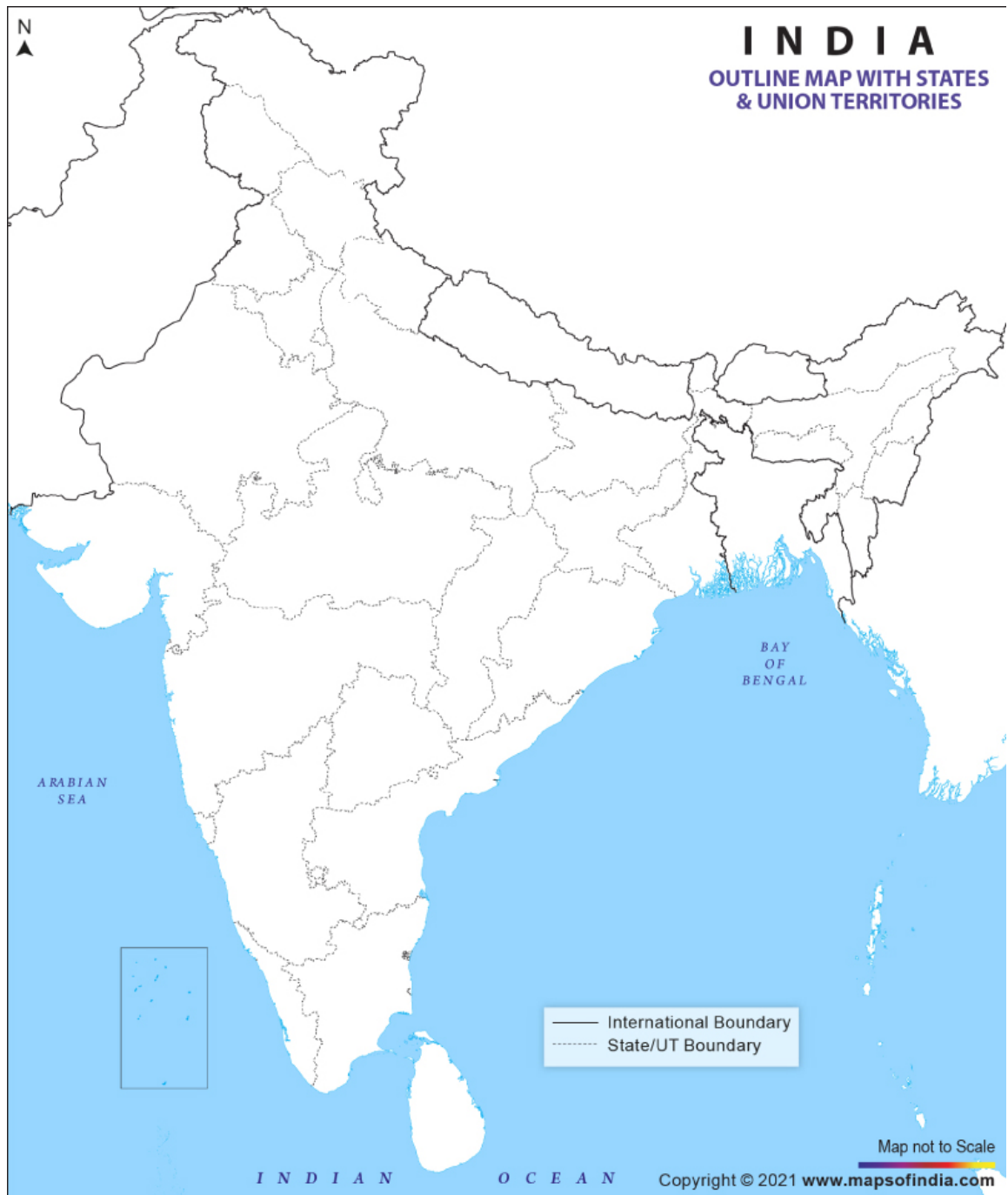
41 Why do we know much more about the cultural practices of rulers than about those of ordinary people? (5)

SECTION –D

42. On a political map of India mark the following

(5)

- a. Surat      b. Poona      c. Hyderabad      d. Delhi      e. Murshidabad



परमाणु ऊर्जा केंद्रीय विद्यालय-कैगा : मुद्रित पृष्ठसंख्या -3

दिनांक- 17/ 03/22 .

वार्षिक परीक्षा (2021-22)

समय - 1घंटा 30 मिनट

कक्षा- 7

विषय- संस्कृत (तृतीय भाषा)

पूर्णांक- 40

प्रश्न-1 समानार्थकपदानि मेलयत- (1×4)=4

आश्चर्येण पठनस्य

उल्लासेन कुटुम्बस्यः

परिवारस्य प्रसन्नतया

अध्ययनस्य विस्मयेन

प्रश्न-2 मञ्जूषातः क्रियापदानि चित्वा रिक्तस्थानानि पूरयत- (1×5)=5

करिष्यामि	गमिष्यति	अनयत्	पतिष्यति	स्फोटयिष्यति	त्रोटयति
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(क) मार्गे स्थितः अहमपि शब्दं .....

(ख) तृषार्तः गजः जलाशयं .....

(ग) गजः गर्ते .....

(घ) काष्ठकूटः तां मक्षिकायाः समीपं .....

(ङ) गजः शुण्डेन वृक्षशाखाः .....

प्रश्न 3 मञ्जूषातः समानार्थकपदानि चित्वा लिखत (1×4)=4

पृथिवी	देवालये	जले	वने	मृगः	भयङ्करम्
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धरणी ..... विपिने .....

करालम् ..... हरिणः .....

प्रश्न-4 यथायोग्यं संयोज्य लिखत-(1×5)=5

क	ख
कौटिल्येन	अभ्युदयाय प्रेरयन्ति।
चिकित्साशास्त्रे	ज्ञानविज्ञानपोषकम्।
शून्यस्य आविष्कर्ता	अर्थशास्त्रं रचितम्।
संस्कृतम्	चरकसुश्रुतयोः योगदानम्।
सूक्तयः	आर्यभटः

प्रश्न 5 उचितकथनानां समक्षम् 'आम्', अनुचितकथनानां समक्षं 'न' इति लिखत-(1×6)=6

(क) धावनसमये अश्वः खादति।	
(ख) उष्ट्रः पृष्ठे भारं न वहति।	
(ग) सिंहः नीचैः क्रोशति।	
(घ) पुष्पेषु चित्रपतङ्गाः ड्यन्ते।	
(ङ) वने व्याघ्रः गर्जति।	
(च) हरिणः नवघासम् न खादति।	

प्रश्न -6 विलोमपदानि मेलयत-(1×4)=4

क्रेतुम्	दूरस्थम्
श्वः	नगरम्
ग्रामम्	विक्रेतुम्
समीपस्थम्	हयः



प्रश्न-7 मञ्जूषातः विलोमपदानि चित्वा लिखत- (1×5)=5

अधुना	मित्रतायाः	लघुचेतसाम्	गृहीत्वा	दुःखिनः	दानवाः
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पुरा .....

मानवाः .....

उदारचरितानाम् .....

सुखिनः .....

अपहाय .....

प्रश्न-8 उपयुक्तकथनानां समक्षम् 'आम्', अनुपयुक्तकथनानां समक्षं 'न' इति लिखत- (1×4)=4

(क) विद्या राजसु पूज्यते।

(ख) वाग्भूषणं भूषणं न।

(ग) विद्याधनं सर्वधनेषु प्रधानम्।

(घ) विदेशगमने विद्या बन्धुजनः न भवति।।


प्रश्न-9 एकपदेन उत्तराणि लिखत- (कोई तीन प्रश्नों के उत्तर दीजिए) (1×3)=3

1-गिरिजायाः गृहसेविकायाः नाम किमासीत्?

2- दर्शनायाः पुत्री कति वर्षीया आसीत्?

3- कस्याः महती जिज्ञासा वर्तते?

4- मन्त्री किमर्थम् आगच्छति?

5- वृक्षे का प्रतिवसति स्म?