

**SUMMATIVE ASSESSMENT-II (CLASS-IX)**

3/2016

**SUBJECT : ENGLISH (SET-B)**

**Time : 3 Hrs.**

**M.M.: 70**

**General Instructions :**

1. *The question paper is divided into three sections.*

**Section-A : Reading & OTBA**                      **20 marks**

**Section-B : Writing and Grammar**              **25 marks**

**Section-C : Literature**                              **25 marks**

2. *All the questions are compulsory.*

3. *You may attempt any section at a time.*

4. *All questions of that particular section must be attempted in correct order.*

**SECTION-A (READING & OTBA : 20 MARKS)**

- Q1. (A) Read the following passage carefully : (5)

'All animals are born free and have the same rights to life'. But do we honour their natural rights? Do we allow them a life free from suffering and exploitation? The fact of the matter is that they all experience pleasure, fear, pain, loneliness, love or loyalty much like we do too. It is our prejudice that makes us deny them the rights that we expect to have for ourselves. I have always asked others this — if we have rights obtained from Nature, don't animals have similar 'rights'?

I agree that all animals are not created equal. Within animal species, there are leaders of the pack, or forms of domination and submission that are common, natural and perhaps necessary for their survival.

In the words of natural rights activists, "Man, by his natural talent, rules the earth. Animals are under his will and domination. This does not mean that man is free under natural law to do anything that he pleases, to animals. The whole idea of natural rights demands that man must show reason and understanding in his administration of the earth; that he owes to the animal kingdom a certain respect for their existence that allows them to fulfil their destiny, just like he expects his society to be so ordered that he has respect for his existence and the opportunity to fulfil his own destiny..."

On the basis of your reading of the above passage, answer the following questions briefly : (1x5=5)

- (a) How can we say that animals experience the same feelings as we do?  
(b) What is the result of the prejudice that we have against them?

- (c) "All animals are not created equal." Justify.
- (d) What is the basic demand of natural rights?
- (e) Which word in the passage means the same as the phrase 'to have authority over someone'?

Q1. (B) Read the following passage carefully : (5)

"Then you know practically nothing about my aunt?" asked the confident young girl.

"Only her name and address," admitted the new neighbour, Mr. Frampton.

"Her great tragedy happened just three years ago," said the child.

"Her tragedy?" asked Frampton.

"You may wonder why we keep that window wide open on an October afternoon," said the girl, indicating a large French window that opened on to a lawn. "Out through that window, three years ago, her husband, her two young brothers and their dog went shooting. They were all swallowed up in a swamp. Poor aunt always thinks that they will come back some day. Sometimes on still evenings like this, I get a creepy feeling that they will walk in through that window..." She broke off with a shudder.

It was a relief to Frampton when the aunt bustled in.

"I hope you don't mind the open window," said Mrs Sappleton briskly, "my husband and brothers will be home directly from shooting."

Frampton shivered. He saw Mrs Sappleton's niece was staring out through the open window in dazed horror. In the twilight, three figures and a dog were walking towards the window. Frampton grabbed wildly at his stick and hat and ran out of the hall door.

"A most extraordinary man," said Mrs Sappleton, "dashed off without a word of goodbye or apology. One would think he had seen a ghost."

"I expect it was the spaniel," said the niece calmly, "he told me he had a horror of dogs. He was once hunted into a cemetery by a pack of stray dogs and had to spend the night in a newly dug grave. Enough to make anyone lose their nerve."

On the basis of your reading of the above passage, answer the following questions briefly : (1x5=5)

- (a) Mention any two qualities of the young girl as revealed in the passage.
- (b) What was the tragedy that happened with the speaker's aunt?
- (c) Why did Frampton start to shiver after meeting Mrs. Sappleton?

- (d) Why did Frampton run away from their house?
- (e) Which word in the passage means the same as the phrase 'caught hold of something tightly'?

Q2. Theme : 'Indigenous Games of India'

- (a) Games and sports are a part of a nation's culture. It is our duty to preserve Indian indigenous games. Explain with reference to this theme. (100-120 words) (5)
- (b) To promote sports and games, individual efforts along with corporate support is very crucial. Explain the involvement of the corporate and government sectors in India. (100-120 words) (5)

**SECTION-B (WRITING AND GRAMMAR : 25 MARKS)**

- Q3. You have just returned from a visit to a haunted house with your friends. You were thrilled to see the mysterious things there. Using ideas from your MCB unit 'Mystery' along with your own ideas, write a diary entry giving details of your feelings and experience. (100-120 words) (5)

OR

You recently visited an NGO in your neighbourhood. You volunteer to help economically challenged children by teaching them in the evening and providing them free stationery. Using ideas from your MCB unit 'Children' along with your own ideas, write an article urging others to consider voluntary social service and highlighting its benefits. (100-120 words) (5)

- Q4. Write a story on the basis of the hints provided in about 150-200 words : (10)
- adventure camp - peak of Himalayas - lack of oxygen - no communication - lost our way back to camp - rescued by sherpas

Begin the story with :

We couldn't believe our eyes .....

OR

trekking expedition - wandered off alone - went in an unexplored cave - discovered antique scripts & paintings - returned to the city - got name and fame

Begin the story with :

Finally, the day arrived when we left .....

- Q5. Complete the following passage by filling in one word each : (½x6=3)

A mother plays (a) \_\_\_\_\_ significant role in (b) \_\_\_\_\_ family. She spends (c) \_\_\_\_\_ of her time doing various chores. In spite (d) \_\_\_\_\_ doing her duties, she remains neglected sometimes. (e) \_\_\_\_\_ family members have

no word of thanks for her work. One should learn how (i) \_\_\_\_\_ value the efforts and hardwork of a mother.

- Q6. In the passage given below, one word has been omitted in each line. Write the missing word along with the word that comes before and the word that comes after it in your answer sheets against the correct blank numbers : (½x8=4)

	Word Before	Missing Word	Word After
Walnuts and almonds are good health.	(a) _____	_____	_____
However, they must not consumed in great	(b) _____	_____	_____
quantities. People India consume them the	(c) _____	_____	_____
most during the winter least during the summer.	(d) _____	_____	_____
They also used generously in Indian desserts.	(e) _____	_____	_____
Children enjoy eating handful cashewnuts	(f) _____	_____	_____
and raisins. An overdose of these nuts be	(g) _____	_____	_____
harmful and may lead allergy.	(h) _____	_____	_____

- Q7. Rearrange the following words and phrases to form meaningful sentences : (1x3=3)

- (a) thousands / ago / used / vehicles / have been / since / wheeled / of years  
 (b) few / for / have / bicycles / in existence / the last / only / years / come  
 (c) cars / are really / fast / than / as they / are better / very / bicycles

#### SECTION-C (LITERATURE : 25 MARKS)

- Q8. Answer any one of the following two extracts : (1x3=3)

'I emerge from the heart of the sea and  
 Soar with the breeze. When I see a field in  
 Need, I descend and embrace the flowers and  
 The trees in a million little ways.'

- (a) Who is 'I' in the above lines ?  
 (b) How does it take care of trees and flowers?  
 (c) What does the word 'descend' mean?

OR

".... I have no patience with you. There, sit down and take your soup, it has been waiting ever so long. And if it is spoilt, it serves you right."

- (a) Who is 'I' here?  
 (b) Why is the speaker annoyed?  
 (c) Write the antonym of 'patience'.



Q9. Answer any FOUR of the following questions in 30-40 words : (2x4=8)

- (a) What message do you get from the lesson 'The Man Who Knew Too Much'?
- (b) What was Harold's reaction when he came to know about his father's profession?
- (c) John Pescud had a successful professional life. Justify.
- (d) Why does Shakespeare use the metaphor of the stage to describe life?
- (e) Why didn't brushing the teeth help the poet in 'Oh! I Wish I'd Looked After My Teeth'?

Q10. Answer any one of the following questions in 80-100 words : (4)

"If people lie to me, they are poorer, not I". The Bishop knew very well that one's conscience should be honest and pious. We should keep on doing good irrespective of what people think of us. Discuss with reference to the play 'The Bishop's Candlesticks'.

OR

'No men are small and no job too mean.' Harold justified this statement to his parents by readily accepting Mr. Bramble's profession. One should feel proud of one's life's decisions and stand by them rather than being ashamed of them. Discuss with reference to the lesson 'Keeping it from Harold.'

#### Long Reading Text

Q11. Answer any one of the following questions in 150-200 words : (10)

What happened when George and Jim went out after supper in Henley? What was the dream of Harris?

OR

Write a character-sketch of George on the basis of the contents of the novel.

समय : 3 घंटे

पूर्णांक : 90

निर्देश :

- (i) इस प्रश्न-पत्र में चार खंड हैं - क, ख, ग, और घ।
- (ii) चारों खंडों के प्रश्नों के उत्तर देना अनिवार्य है।
- (iii) यथासंभव प्रत्येक खंड के उत्तर क्रमशः दीजिए।

(खण्ड-क)

(अपठित-बोध व मुक्त-पाठ)

प्र1. निम्नलिखित गद्यांश को पढ़कर पूछे गए प्रश्नों के उत्तर दीजिए :

गंगा हमारी पवित्र नदी है। भारतीय परम्परा में आम जन ही नहीं साधु-संत भी स्वयं को पवित्र करने के लिए गंगा स्नान करते हैं परन्तु अत्यधिक प्रदूषित हो चली गंगा में अब साधु-संत भी डुबकी लगाने से बचने लगे हैं। फैक्ट्रियों के प्रदूषित पानी, कीटनाशकों व रासायनिक खादों का बढ़ता प्रयोग, घरेलू सीवर का गंदा पानी आदि गंगा-प्रदूषण के लिए जिम्मेदार तो हैं ही हमारे धार्मिक अंधविश्वास भी गंगा को प्रदूषित करने के लिए कम जिम्मेदार नहीं हैं। क्या रासायनिक पदार्थों से बनी देवी-देवताओं की मूर्तियों का विसर्जन गंगा को प्रदूषित नहीं करता? क्या हमारे गंगा-स्नान करने से हमारे ही शरीर की गंदगी से गंगा प्रदूषित नहीं होती? इसी तरह क्या गंगा किनारे शवदाह करने से गंगा प्रदूषित नहीं होती?

यदि आप वास्तव में गंगा को प्रदूषण से मुक्त कराना ही चाहते हैं तो सरकार का इस ओर ध्यानाकर्षण कराने के साथ-साथ जनता को भी धार्मिक अंधविश्वासों से बाहर निकालने हेतु जागरूक करें। सरकार को उसकी जिम्मेदारी सौंपने मात्र से ही आपकी जिम्मेदारी समाप्त नहीं हो जाती। अपने ही देशवासियों को बताएँ कि जिन कार्यों से गंगा प्रदूषित होती है उस कार्य से हमारा प्रत्येक देशवासी स्वयं को अलग रखे अर्थात् ऐसे कार्यों से दूर रहे।

(क) साधु संतों द्वारा गंगा में डुबकी लगाने के पीछे क्या भावना है और अब वे इससे क्यों बचने लगे हैं?

(2)

(ख) गंगा-प्रदूषण के लिए कौन-कौन से कारक जिम्मेदार हैं? कोई दो लिखिए।

(2)

(ग) गंगा को प्रदूषण मुक्त करने के लिए हमें क्या कदम उठाने होंगे?

(2)

(घ) गंगा को प्रदूषण मुक्त करने की जिम्मेदारी किसकी है?

(1)

(ङ) 'रासायनिक' शब्द में कौन-सा प्रत्यय तथा 'प्रदूषण' शब्द में कौन-सा उपसर्ग है?

(1)

(च) दो नुक्ता वाले शब्द छाँटकर लिखिए।

(1)

(छ) गद्यांश का उचित शीर्षक लिखिए।

(1)

प्र2. निम्नलिखित प्रश्नों के उत्तर मुक्त पाठ्य सामग्री के आधार पर लिखिए :-

विषय - पर्यावरण संरक्षण

(क) पर्यावरण संरक्षण के क्या-क्या उपाय हो सकते हैं? प्राप्त सामग्री के आधार पर लिखिए।

(5)

- (ख) भारत में पर्यावरण संरक्षण के लिए समय-समय पर कदम उठाए जा रहे हैं, पर उनमें सफलता न मिलने के क्या कारण हैं स्पष्ट कीजिए। (5)

(खण्ड-ख)

(व्यावहारिक-व्याकरण)

- प्र3. (क) निम्नलिखित शब्दों का वर्ण-विच्छेद कीजिए :- (2)  
धार्मिक, अनावश्यक
- (ख) निम्नलिखित शब्दों में उचित स्थान पर अनुस्वार व अनुनासिक लगाइए :- (2)  
मात्राएँ, हिंदमहासागर, भाति, सपदा
- (ग) 'फ' में नुक्ता लगाकर दो शब्द लिखिए। (1)
- प्र4. (क) निम्नलिखित शब्दों में से मूल शब्द और प्रत्यय अलग कीजिए :- (2)  
पत्रिका, मानवता
- (ख) निम्नलिखित उपसर्ग से दो शब्द बनाकर लिखिए :- (1)  
प्रति
- प्र5. (क) सन्धि-विच्छेद कीजिए :- (2)  
परमाणु, रेखांकित
- (ख) सन्धि कीजिए :- (2)  
राजा + इंद्र, ने + अन
- प्र6. निम्नलिखित वाक्यों में उचित स्थान पर विराम-चिह्न लगाइए :- (3)
- (क) सड़क पर भागते बच्चों को अपने आगे पीछे की खबर नहीं थी
- (ख) सावधान आगे गड़ढा है
- (ग) भारत दक्षिण पश्चिम और पूरब में समुद्र से घिरा है

(खण्ड-ग)

(पाठ्य-पुस्तक)

- प्र7. पठित पाठों के आधार पर निम्नलिखित प्रश्नों के उत्तर लिखिए :-
- (क) कीचड़ का वर्णन किसी ने क्यों नहीं किया है? (1)
- (ख) आइंस्टाइन ने प्रकाश के कणों की तुलना किससे की और क्यों? उन्होंने कणों को क्या नाम दिया? (2)
- (ग) आज धर्म के नाम पर क्या हो रहा है? इसे कैसे रोका जा सकता है? (2)
- प्र8. 'शुक्रतारे के समान' पाठ में महादेव भाई के गुणों का वर्णन किया गया है। आप अपने अनुभव के आधार पर बताइए कि जब उनके गुणों ने आपको भी जीवन में सफलता या प्रसिद्धि दिलवाई हो। (5)



प्र9. निम्नलिखित गद्यांश को पढ़कर पूछे गए प्रश्नों के उत्तर लिखिए :-

अर्जों देना, शंख बजाने, नाक दबाने और नमाज़ पढ़ने का नाम धर्म नहीं है। शुद्धाचरण और सदाचार ही धर्म के स्पष्ट चिह्न हैं। दो घंटे बैठकर पूजा कीजिए और पंच-वक्ता नमाज़ भी अदा कीजिए, परंतु ईश्वर को इस प्रकार रिश्वत दे चुकने के पश्चात् यदि आप अपने को दिन-भर बेइमानी करने और दूसरों को तकलीफ पहुँचाने के लिए आज़ाद समझते हैं तो, इस धर्म को, अब आगे आने वाला समय कदापि नहीं टिकने देगा। अब तो, आपका पूजा-पाठ न देखा जाएगा, आपकी भलमनसाहत की कसौटी केवल आपका आचरण होगी।

(क) मनुष्य के कौन-कौन से कार्य धर्म नहीं हैं? धर्म के स्पष्ट चिह्न क्या हैं? (2)

(ख) आगे आने वाला समय किस प्रकार के लोगों को टिकने नहीं देगा? (2)

(ग) मनुष्य की सज्जनता किस बात पर निर्भर है? (1)

प्र10. पठित कविताओं के आधार पर निम्नलिखित प्रश्नों के उत्तर दीजिए :-

(क) सुखिया के पिता पर कौन-सा आरोप लगाकर उसे दंडित किया गया? (2)

(ख) 'नए बसते इलाके में' कवि ने रास्ता याद रखने के लिए कौन-कौन से निशान बनाए थे? कवि रास्ता क्यों भूल जाते हैं? (2)

(ग) 'गीत-अगीत' कविता के आधार पर बताइए कि गुलाब के मन में क्या विचार उत्पन्न हो रहे थे? (1)

प्र11. 'अग्निपथ' कविता के माध्यम से कवि क्या संदेश देना चाहता है? अपने अनुभव के आधार पर बताइए कि यह संदेश जीवन में सफलता दिलाने में सहायक है। (5)

अथवा

'खुशबू रचते हैं हाथ' कविता में समाज की किस समस्या को दिखाया गया है? इस समस्या के लिए कौन-कौन जिम्मेदार हैं? आप इस समस्या के समाधान में क्या-क्या योगदान दे सकते हैं?

प्र12. 'मेरा छोटा-सा निजी पुस्तकालय' पाठ के लेखक को पुस्तकें पढ़ने व एकत्र करने का शौक कैसे लगा? - 'पुस्तकें मनुष्य की सच्ची मित्र होती हैं।' इस पर अपने विचार प्रकट कीजिए। (5)

अथवा

'दिए जल उठे' पाठ में गांधी जी ने दरबार समुदाय से त्याग और हिम्मत सीखने की प्रेरणा दी है। जीवन के ये गुण आपसी द्वेष व ईर्ष्या को दूर करते हैं। इस पर अपने विचार प्रकट कीजिए।

(खण्ड-घ)

(लेखन)

प्र13. दिए गए संकेत बिन्दुओं के आधार पर किसी एक विषय पर लगभग 80 से 100 शब्दों में एक अनुच्छेद लिखिए:- (5)

(क) दिल्ली की बदलती तस्वीर

(i) क्षेत्र व आबादी

(ii) बुनियादी सुविधाओं का विस्तार

(iii) शहरी सौंदर्यीकरण

(iv) हानियाँ



(ख) बरसात का एक दिन

(i) भारत की विभिन्न ऋतुएँ

(ii) वर्षा ऋतु से सभी प्राणी प्रभावित

(iii) बरसात का स्वयं का अनुभव

(iv) उत्साह व उमंग

(ग) विज्ञापनों की दुनिया बड़ी लुभावनी

(i) विज्ञापन की आवश्यकता

(ii) विज्ञापन का प्रभाव

(iii) विज्ञापन भ्रम उत्पन्न करने वाले

(iv) लालसा-प्रवृत्ति को बढ़ावा देते हैं

प्र14. कविता-प्रतियोगिता में प्रथम आने पर अपने बड़े भाई को खुशखबरी देते हुए पत्र लिखिए। (5)

अथवा

खेल-प्रतियोगिताओं में सर्वश्रेष्ठ धावक (एथलीट) होने का पुरस्कार प्राप्त करने पर मित्र को बधाई पत्र लिखिए।

प्र15. दिए गए चित्र को ध्यानपूर्वक देखकर अपने मन में उभरे विचारों को 20-30 शब्दों में लिखिए। (5)



प्र16. चौदह साल का अमर अपने जन्मदिन पर पिता जी से 'स्कूटी' उपहार में चाहता है। इस विषय पर अमर और उसके पिता जी की बातचीत 50 शब्दों में लिखिए। (5)

प्र17. 'बेटी बचाओ, बेटी पढ़ाओ' विषय पर 'मानव संसाधन मंत्रालय' के लिए एक विज्ञापन बनाइए। (5)

**SUMMATIVE ASSESSMENT-II (CLASS-IX)**

3/2016

**SUBJECT : MATHEMATICS (SET-A)**

Time : 3 Hrs.

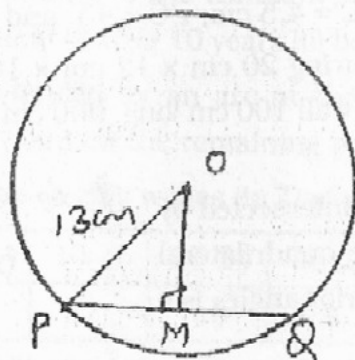
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**General Instructions :**

1. All questions are compulsory.
2. The question paper consists of 31 questions divided into five sections A, B, C, D and E. Section-A comprises of 4 questions of 1 mark each; Section-B comprises of 6 questions of 2 marks each; Section-C comprises of 8 questions of 3 marks each and Section-D comprises of 10 questions of 4 marks each. Section-E comprises of 2 questions of 3 marks each and 1 question of 4 marks. This section is based on Open Text Based Assessment (OTBA).
3. Use of calculator is not permitted.

**SECTION-A**

- Q1. Find the slant height of a cone whose radius is 12 cm and height is 5 cm.
- Q2. The radius of a circle is 13 cm and the length of one of its chords is 24 cm. Find the distance of the chord from the centre.



- Q3. Two parallelograms are on the same base and between the same parallels. Find the ratio of their areas.
- Q4. If the volume of a sphere is numerically equal to its surface area, then find its diameter.

**SECTION-B**

- Q5. Find the volume of a cube whose curved surface area is  $144 \text{ cm}^2$ .
- Q6. In a survey of 432 children, it was found that 313 live in nuclear families, 21 live alone and the rest of them live in joint families. If a child is selected at random, what is the probability that he/she belongs to a joint family?

Q7. The weights of 25 students of a group (in kg) are given below :

42, 47, 53, 56, 38, 44, 46, 49, 54, 53, 50, 59, 48,  
51, 52, 43, 58, 45, 37, 46, 51, 48, 34, 52, 55

Draw a grouped frequency distribution table for the above data, one of the classes being 40-45.

Q8. Prove that a diagonal of a parallelogram divides it into two congruent triangles.

Q9. Two coins are tossed together 200 times and the following information was obtained.

Appearance of	2 Tails	1 Tail	No Tail
Number of times	55	70	75

Find the probability of getting (i) 2 heads (ii) one tail.

Q10. What is the median height (in cm) of 9 students of a class, whose heights are as follows :

147, 145, 149, 155, 160, 150, 144, 148, 152

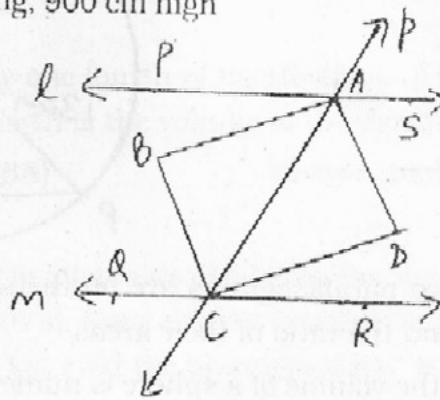
### SECTION-C

Q11. Prove "Equal chords of a circle subtend equal angles at the centre".

Q12. Construct a  $\triangle ABC$  in which  $BC = 4.5$  cm,  $\angle C = 45^\circ$  and  $AB + AC = 8$  cm.

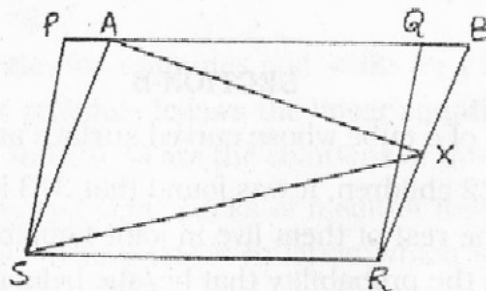
Q13. How many bricks each measuring  $20$  cm  $\times$   $12$  cm  $\times$   $10$  cm will be required to construct a wall  $100$  cm long,  $900$  cm high and  $24$  cm thick?

Q14. Two parallel lines  $l$  and  $m$  are intersected by a transversal  $p$ . Show that the quadrilateral formed by the bisectors of interior angles is a rectangle.



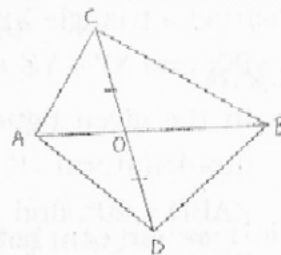
Q15. In the given figure, PQRS and ABRS are parallelograms and X is any point on side BR. Show that (i)  $\text{ar}(\text{PQRS}) = \text{ar}(\text{ABRS})$

(ii)  $\text{ar}(\text{AXS}) = \frac{1}{2} \text{ar}(\text{PQRS})$



Q16. ABCD is a rectangle in which diagonal AC bisects  $\angle A$  as well as  $\angle C$ . Show that ABCD is a square.

Q17. In the given figure, ABC and ABD are two triangles on the same base AB. If line segment CD is bisected by AB at O, show that  $\text{ar}(\triangle ABC) = \text{ar}(\triangle ABD)$



Q18. The radius of the edge of a hemispherical bowl is 21 m. Find the curved surface area of the bowl. Also, find the cost of painting the bowl at the rate of ₹ 50/m<sup>2</sup>

#### SECTION-D

Q19. A company kept a record of the information that their product needed replacement after how many years by their customers. The data on 500 customers is presented below :

Number of years at the end of which the product needs replacement	4-6	6-8	8-10	10-12	12-14	14-16
Number of customers	85	105	135	75	70	30

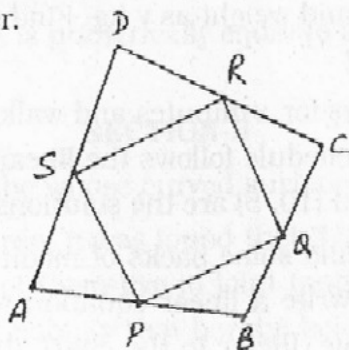
If a customer buys a product of the company, find the probability that the product needs replacement (i) after 10 years (ii) before 12 years (iii) in 20 years

Q20. Prove : "The angle subtended by an arc at the centre is double the angle subtended by it at any point on the remaining part of the circle".

Q21. Draw a histogram for the weekly wages (in ₹) of workers given below :

Weekly wages (in ₹)	10-15	15-25	25-30	30-40	40-45	45-60
Number of workers	7	18	8	10	12	12

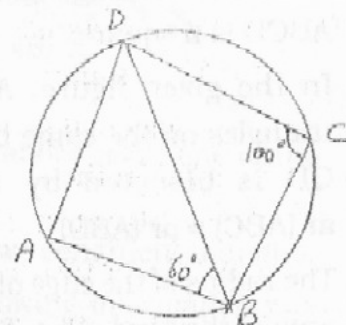
Q22. ABCD is a quadrilateral in which P, Q, R and S are respectively the mid-points of the sides AB, BC, CD and DA. Show that (i) PQRS is a parallelogram (ii) RP and SQ bisect each other.





Q23. Construct a triangle XYZ in which  $\angle Y = 60^\circ$ ,  $\angle Z = 90^\circ$  and  $XY + YZ + ZX = 12$  cm

Q24. (a) In the given figure, ABCD is a cyclic quadrilateral. If  $\angle BCD = 100^\circ$  and  $\angle ABD = 60^\circ$ , find  $\angle ADB$ .



(b) Given an arc of a circle, complete the circle.

Q25. (a) The government prepared rescue shelters in the form of a conical tent for earthquake victims whose slant height and base diameter are 25 m and 14 m respectively. Find the cost of cloth required to make the tent at the rate of ₹ 210 per  $100 \text{ m}^2$ .

(b) Write any one value depicted in the above situation.

Q26. The ages of 40 students are given in the following table :

Age (in yrs)	12	13	14	15	16	17	18
Number of students	2	4	6	9	8	7	4

Find the mean and mode of above data.

Q27. The height and radius of a cylinder are 7.5 cm and 3.5 cm, respectively. Find (i) curved surface area (ii) total surface area (iii) ratio of curved surface area to total surface area

Q28. The diameter of the moon is approximately one fourth of the diameter of the earth. What fraction of the volume of the earth is the volume of the moon?

#### SECTION-E (OTBA)

(3+3+4 marks)

#### Theme 1 : Childhood Obesity in India

Q29. Body Mass Index (BMI) is a person's weight in kilograms divided by the square of height in metres. Taking the height as 1.5 m, form a linear equation in two variables taking BMI as  $x$  and weight as  $y$  kg. Find the (i) weight if BMI is 30 (ii) BMI if weight is 22.5 kg

Q30. Monica does home activities for  $x$  minutes and walks for  $y$  minutes. To burn, 120 kilo calories, fitness schedule follows the linear equation  $3x + 4y = 120$ . Check whether (20, 15) and (10, 5) are the solutions of this equation or not.

Q31. Rahul ate some samosas and some packs of medium french fries. His total calorie intake was 3000. Write a linear equation which satisfies this data. Draw the graph of the same. (Refer to the chart showing amount of calorie obtained after eating junk food)

**SUMMATIVE ASSESSMENT-II (CLASS-IX)**

3/2016

**SUBJECT : SCIENCE (SET-A)**

**Time : 3 Hrs.**

**M.M.: 90**

**General Instructions :**

- (i) The question paper comprises of three Sections A, B and C. You are to attempt all the sections.
- (ii) All questions are compulsory.
- (iii) There is no choice in any of the questions.
- (iv) All questions of Section-A, Section-B and Section-C are to be attempted separately.
- (v) Question numbers 1 to 3 in Section-A are one mark questions. These are to be answered in one word or in one sentence.
- (vi) Question numbers 4 and 5 in Section-A are two marks questions. These are to be answered in about 30 words each.
- (vii) Question numbers 6 to 16 in Section-A are three marks questions. These are to be answered in about 50 words each.
- (viii) Question numbers 17 to 21 in Section-A are five marks questions. These are to be answered in about 70 words each.
- (ix) Section-B has 3 OTBA questions. Question number 22 is of two marks, Question number 23 is of three marks and Question number 24 is a five marks question.
- (x) Question numbers 25 to 33 in Section-C are multiple choice questions based on practical skills. Each question is a one mark question. You are to select one most appropriate response out of the four provided to you.
- (xi) Question numbers 34 to 36 in Section-C are two marks questions based on practical skills. These are to be answered in about 30 words each.

**SECTION-A**

- Q1. Identify the element with atomic number 17 and write its electronic configuration.
- Q2. In which direction does the buoyant force on an object immersed in a liquid act?

- Q3. List any two general methods of prevention of diseases.
- Q4. A SONAR device on a submarine sends out a signal and receives an echo 2s later. Calculate the speed of sound in water if the distance of the object from the submarine is 1525 m.
- Q5. Identify the phylum in which organisms have -
- segmentation and true body cavity.
  - spiny skin and a peculiar water-driven tube system.
- Q6. (a) Define antibiotics.
- (b) Why are antibiotics more effective against bacterial diseases than viral infections?
- Q7. (a) Differentiate between thallophyta and pteridophyta on the basis of -
- body design
  - habitat
- (b) Name the division of plant kingdom which is known as "Amphibians of plant kingdom". Write any one of its characteristic feature.
- Q8. Manu's younger sister is two years old. His father was supposed to take her to 'Pulse Polio' center on a Sunday. But he was not interested as he was watching a live telecast of the final match played between the cricket teams of India and Pakistan. Manu insisted on their visit to the 'Pulse Polio' center.
- Why do you think it was necessary to take Manu's sister to the center? Explain the scientific principle involved.
  - What values have been shown by Manu in the above situation?
- Q9. (a) State the postulates of Thomson's model of an atom.
- (b) Enlist two applications of isotopes.
- Q10. (a) Read the table and answer the questions given below :

Element	Protons	Neutrons	Electrons
A	10	10	10
B	11	12	11
C	12	12	12
D	13	14	13

- Write the electronic configuration of elements B and D.
- Identify the element with valency zero.
- What is the valency of element C?

- (b) Why did Rutherford take gold foil in Alpha particle scattering experiment for discovery of nucleus?
- Q11. (a) Calculate the molecular mass of  $\text{CaCO}_3$  [Atomic mass : C = 12u, O = 16u, Ca = 40u]
- (b) Work out the molecular formulae of the following compounds -
- (i) Sodium oxide (ii) Magnesium chloride
- Q12. A 10 kg ball is thrown upwards with a speed of 5 m/s. (Take  $g = 10 \text{ m/s}^2$ )
- (a) Calculate the maximum height attained by it.
- (b) Find the potential energy when it reaches the highest point.
- Q13. Relative densities of two substances A and B are 1.5 and 0.8 respectively. Find densities of A and B. Also find whether they will sink or float in water. (Density of water =  $1000 \text{ kg/m}^3$ )
- Q14. Two children A and B of mass 25 kg each climb a rope upto the height of 5m. Child A takes 5s and child B takes 10s to climb the rope. Show by calculations whether the power of both the children is equal or different. (Take  $g = 10 \text{ m/s}^2$ )
- Q15. (a) What is the range of frequency associated with ultrasonic sound?
- (b) Calculate the wavelength of a sound wave whose frequency is 100 Hz and speed is 300 m/s in a given medium.
- Q16. In a house, 3 bulbs of 25W each and 4 fans of 100W each are used for 5 hours a day. Calculate the units of electricity consumed in a month of 31 days.
- Q17. (a) Expand the term AIDS.
- (b) Name the causative agent of AIDS and its target organ in the body.
- (c) List down the common ways by which AIDS gets transmitted from a patient to a healthy person.
- Q18. Mohan observes leech and prawn. Both have segmented body organisation but are placed in different phyla.
- (a) Name the phylum to which each belongs.
- (b) Give reasons for placing them in separate phyla.
- (c) What is open circulatory system?
- Q19. (a) Calculate the number of moles present in 48g of  $\text{CH}_4$ . (Atomic mass : H = 1u, C = 12u)
- (b) State any three postulates of Dalton's atomic theory of matter.



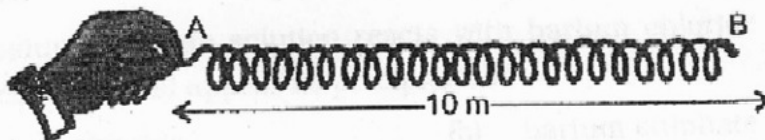
- Q20. (a) Explain the function of middle ear.  
 (b) How are ultrasonic waves used to clean spiral tubes?  
 (c) Name the physical quantity which determines the loudness of sound.
- Q21. (a) Name a device which converts -  
 (i) electrical energy into sound energy.  
 (ii) heat energy into mechanical energy.  
 (iii) mechanical energy into electrical energy.
- (b) Two bodies of same mass start from rest and move with velocities  $V$  and  $3V$  respectively. Find the ratio of their kinetic energies.

#### SECTION-B (OTBA)

- Q22. Are lakes socially beneficial? Justify.
- Q23. With reference to the case study of 'Tikamgarh district of Madhya Pradesh', what suggestions can you give to conserve water and water bodies.
- Q24. Explain the role of the government in management of water bodies.

#### SECTION-C

- Q25. A sound wave strikes the reflecting surface at an angle of  $30^\circ$  with the surface. The angle of incidence for the sound wave is :  
 (a)  $30^\circ$  (b)  $60^\circ$   
 (c)  $120^\circ$  (d)  $45^\circ$
- Q26. When a body is immersed in water, it undergoes apparent  
 (a) loss in weight (b) loss in volume  
 (c) loss in mass (d) loss in both mass and volume
- Q27. What is the velocity of the pulse for the slinky indicated in the figure below?



Given that the pulse took 5 seconds to travel from A to B then back to A.

- (a) 5 m/s (b) 4 m/s  
 (c) 10 m/s (d) 2 m/s

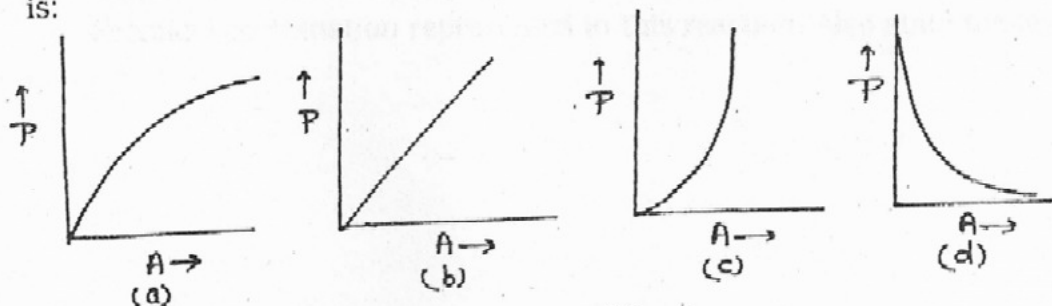
Q28. If the density of aluminium is  $2.700 \text{ g/cm}^3$ , then its value in SI system is :

- (a)  $2700 \text{ kg/m}^3$  (b)  $2.7 \text{ kg/m}^3$   
(c)  $270 \text{ kg/m}^3$  (d)  $27 \text{ kg/m}^3$

Q29. If a rough surface is replaced by a plane surface in the experiment of reflection of sound, then :

- (a) sound will be heard with greater intensity.  
(b) sound will be heard with lesser intensity.  
(c) no reflection of sound takes place.  
(d) reflected sound will remain of same loudness in both the cases.

Q30. The graph obtained between pressure and area by keeping the force constant is:



- (a) a  
(c) c

- (b) b  
(d) d

Q31. Ribbon shaped and spiral chloroplast is present in

- (a) Agaricus  
(c) Pinus

- (b) Spirogyra  
(d) Funaria

Q32. An adult mosquito has how many pairs of legs?

- (a) one  
(c) three

- (b) two  
(d) four

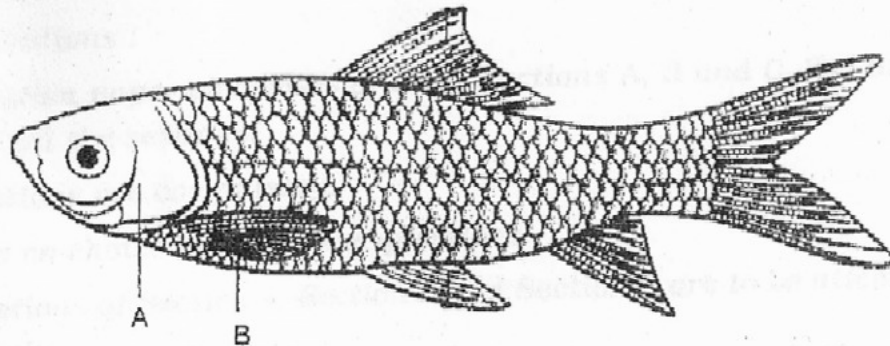
Q33. When sodium sulphate solution reacts with barium chloride solution, the substance which will appear as precipitate is -

- (a) barium chloride  
(c) sodium sulphate

- (b) barium sulphate  
(d) sodium chloride

Q34. A cuboid of mass  $4.0 \text{ kg}$  and dimensions  $3\text{m} \times 2\text{m} \times 1\text{m}$  is placed on a table to exert pressure on the table. If the value of  $g = 10 \text{ m/s}^2$ , find the minimum pressure exerted by the cuboid.

Q35. In the diagram given below prominent and identifying features of a bony fish are labelled as A and B. Write the correct identification of A and B.



Q36. When 15g of copper sulphate reacts with 15g of sodium hydroxide, 10g of copper hydroxide and 20g of sodium sulphate was formed. Name the law of chemical combination represented in this reaction. Also state the law.

**SUMMATIVE ASSESSMENT-II (CLASS-IX)**

3/2016

**SUBJECT : SOCIAL SCIENCE (SET-B)**

**Time : 3 Hrs.**

**M.M.: 90**

**General Instructions :**

1. The question paper has two sections (Section-A and Section-B) with 30 questions in all. All questions are compulsory.
2. Marks are indicated against each question.
3. Questions from serial no. 1 to 8 are very short answer type questions. Each question carries one mark.
4. Questions from serial no. 9 to 20 are 3 marks questions. Answer of these questions should not exceed 80 words each.
5. Questions from serial no. 21 to 26 are 5 marks questions. Answer of these questions should not exceed 120 words each.
6. Question number 27 & 28 are map questions of 3 marks from History and Geography respectively. After completion, attach the map inside your answer book.
7. Question no. 29 to 30 are from open text themes and each question is of 5 mark.

**SECTION-A**

- Q1. Which country was associated with Dust Bowl tragedy? (1)
- Q2. Define Birth rate. (1)
- Q3. Why is it necessary to revise the electoral roll? ( $\frac{1}{2} + \frac{1}{2} = 1$ )
- Q4. Who is the head of the government in India? (1)
- Q5. Name the fundamental right that forbids the practice of untouchability in any form. (1)
- Q6. Mention the two planks undertaken by the government to alleviate poverty. ( $\frac{1}{2} + \frac{1}{2} = 1$ )
- Q7. State the major objective of Swarnajayanti Gram Swarozgar Yojana. (1)
- Q8. Why does the state of Kerala have a low poverty ratio? (1)
- Q9. State any three disadvantages of the use of mechanical harvesting machines in U.S.A. (1x3=3)
- Q10. (a) Name the first Indian club founded by the Parsis.



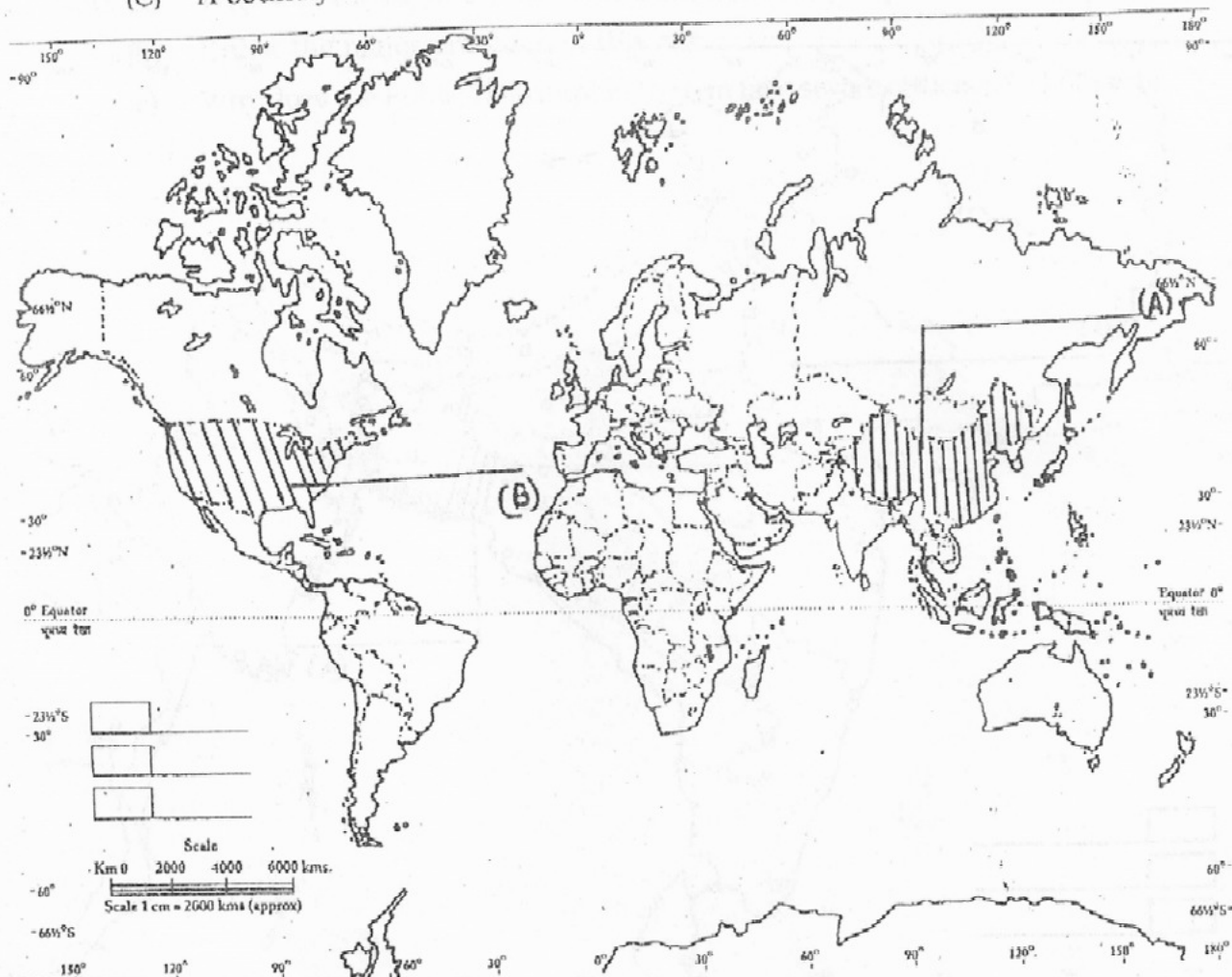
- (b) Give two examples, how technology brought about a change in the equipment of the game of cricket. (1+2=3)
- Q11. (a) Who made cricket a marketable game? (1+2=3)
- (b) Discuss two ways in which it is different from other team games. (1+2=3)
- Q12. Give reasons for the following : (1½+1½=3)
- (a) The coast of Tamil Nadu receives winter rainfall.
- (b) The leeward side of the western Ghats is drought prone.
- Q13. 'Wildlife is seriously threatened by human activities'. Suggest any three ways to save wildlife. (1x3=3)
- Q14. What do you mean by population growth? Mention the two ways to express changes in population. (1+2=3)
- Q15. Distinguish between political executive and permanent executive. (1x3=3)
- Q16. What are rights? Why are they called fundamental? Why are they essential for every human being? (1+1+1=3)
- Q17. 'The Right against exploitation has laid down clear provisions to prevent the exploitation of weaker sections'. Mention these provisions. (1x3=3)
- Q18. Write a note on consumption method of estimating poverty in India. (1x3=3)
- Q19. Discuss any three reasons of poverty in India. (1x3=3)
- Q20. Mention the main features of NREGA 2005. (1x3=3)
- Q21. (a) Explain any two factors which led to enclosures in England. (2+3=5)
- (b) Discuss the impact of enclosures on the poor in England. (2+3=5)
- Q22. 'Advances in technology especially television affected the development of contemporary cricket'. Justify. (1x5=5)
- Q23. Give an account of cold weather season in India. (1x5=5)
- Q24. Mention the chief characteristics of Tropical evergreen forests found in India. Give one example each of plant and animal found there. (4+1=5)
- Q25. Enumerate the provisions made in the constitution for the political representation of the weaker sections of society. (1x5=5)
- Q26. Enlist the powers and functions of the Parliament in India. (2+3=5)

Q27. Two items A and B are marked on the given political outline map of the World. Identify these items with the help of the following information and write their correct names on the lines marked in the map. (1x3=3)

- (A) The Confucian rulers, the Manchus, belonged to this country.  
 (B) The inventor of the first mechanical reaper belonged to this country.

On the same political outline map of the World, locate and label the following item with the appropriate symbol.

- (C) A country associated with Captain Swing riots.



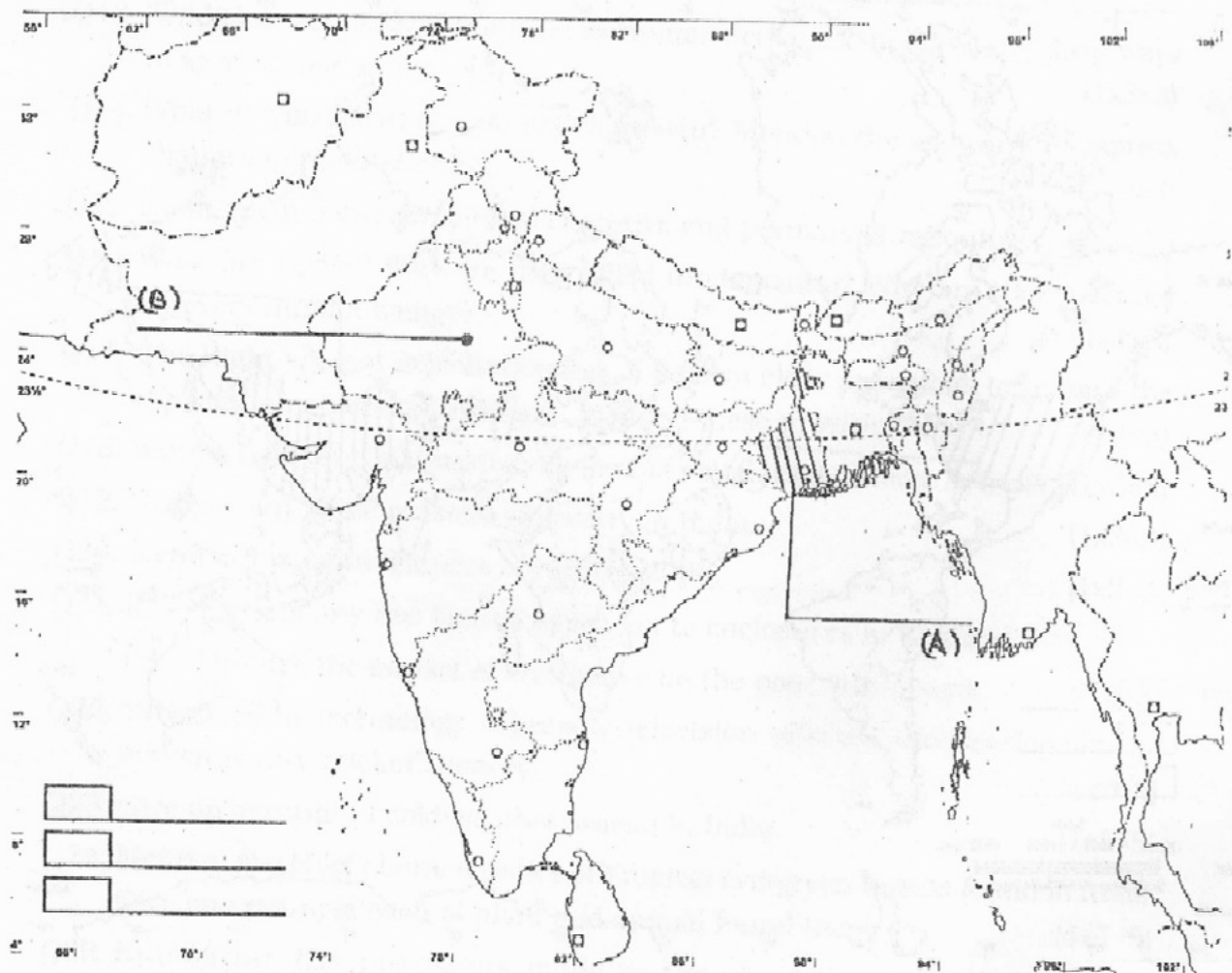
Q28. Two items A and B are shown on the given political outline map of India. Identify these items with the help of the following information and write their correct names on the lines marked on the map. (1x3=3)

(A) The state with highest density of population.

(B) ~~A meteorological station in Rajasthan.~~ *A state receiving more than 200 cm rainfall*

On the same political outline map of India, locate and label the following item with the appropriate symbol.

(C) A national park in Uttarakhand.



## SECTION-B (OTBA)

### Theme : Food Security in India

- Q29. (a) Mention a few general reforms taken by the government in the agricultural sector.
- (b) 'India has achieved self-sufficiency in foodgrains after independence'. Critically examine the statement with relevant examples.
- (c) Enlist the various aspects of food security. (1+1+3=5)
- Q30. (a) Why was the Right to Food Act, 2013 enacted?
- (b) Enlist the major provision of this Act.
- (c) Why does the Public Distribution System face severe criticism? (1+1+3=5)

## SECTION-A

- Q1. Which country was associated with the 'Green Revolution'?
- Q2. Why is the 'Green Revolution' called the 'Green Revolution'?
- Q3. What is the 'Green Revolution' in India?
- Q4. What is the 'Green Revolution' in India?
- Q5. What is the 'Green Revolution' in India?
- Q6. What is the 'Green Revolution' in India?
- Q7. What is the 'Green Revolution' in India?
- Q8. What is the 'Green Revolution' in India?
- Q9. What is the 'Green Revolution' in India?
- Q10. What is the 'Green Revolution' in India?