





- ৮। নিম্নলিখিত প্রশ্নের উত্তর দাও : (কমবেশি ১৫০ টি শব্দে) ৫×১=৫  
 ‘আমি এরকম কাজ (অর্থাৎ চুরি) করিনি।’ - বক্তার এই বক্তব্য কীভাবে সত্য প্রমাণিত হয়েছে ‘ধীবর বৃত্তান্ত নাট্যাংশ’ অনুসরণে আলোচনা করো।
- ৯। নিম্নলিখিত প্রশ্নটির উত্তর লেখো : (কমবেশি ১৫০ টি শব্দে) : ৫×১=৫  
 টাফায় গিয়ে প্রফেসর শঙ্কর কী অভিজ্ঞতা হয়েছিল, লেখো।
- ১০। ব্যাকরণগত প্রশ্নের উত্তর দাও : ১×২০=২০
- ১০.১। বাংলা বর্ণমালায় স্পর্শধ্বনির সংখ্যা
- ক) ২২টি                      খ) ২৫টি                      গ) ২৮টি                      ঘ) ৩২টি
- ১০.২। নীচের শব্দটির দল বিশ্লেষণ করো :  
 বাতাস
- ১০.৩। প্লুতস্বরে কমপক্ষে মাত্রা থাকে
- ক) ২টি                      খ) ৩টি                      গ) চারটি                      ঘ) ছয়টি
- ১০.৪। কর্ম > কস্ম - এটিতে ধ্বনি পরিবর্তনের কোন্ সূত্র ব্যবহৃত হয়েছে ?
- ১০.৫। ‘হ’ কে বলা হয় -
- ক) মহাপ্রাণ ধ্বনি                      খ) অল্পপ্রাণ ধ্বনি                      গ) তালব্য ধ্বনি                      ঘ) কণ্ঠ্যনালীয়া ধ্বনি
- ১০.৬। ‘ল’ কে বলা হয়
- ক) তাড়নজাত ধ্বনি                      খ) পার্শ্বিক ধ্বনি                      গ) তরল ধ্বনি                      ঘ) প্রতিবেষ্টিত ধ্বনি
- ১০.৭। আজি > আইজ ধ্বনি পরিবর্তনের এই রীতিটির নাম লেখো।
- ১০.৮। ‘গামছা’ শব্দের আসল রূপ হল
- ক) গামোছা                      খ) গাম + ছা                      গ) গামছুয়া                      ঘ) গামুছুয়া
- ১০.৯। নীচের কোন শব্দটি সমাক্ষরলোপের উদাহরণ ?
- ক) অল্প                      খ) বগ                      গ) গোঠ                      ঘ) পলতা
- ১০.১০। স্পর্ধা > আস্পর্ধা - এটিতে ধ্বনি পরিবর্তনের কোন্ রীতি অনুসৃত হয়েছে ?
- ১০.১১। আদি স্বরলোপের একটি উদাহরণ দাও।
- ১০.১২। দুধ > দুদ কোন্ ধ্বনি পরিবর্তন ?
- ১০.১৩। দরজায় আঁক কেটো না।  
 ধ্বনি পরিবর্তনের রীতিটি উল্লেখ করে মূল শব্দ যোগে।
- ১০.১৪। বিষমী ভবনের একটি উদাহরণ দাও।
- ১০.১৫। দুটি দন্ত্যধ্বনির উদাহরণ দাও।
- ১০.১৬। দুঃখ + ঋত = সন্ধি স্থাপন করো।
- ১০.১৭। সন্ধি বিচ্ছেদ করো - স্নেচ্ছা
- ১০.১৮। নীচের বাক্যটির থেকে সন্ধিবদ্ধ পদ খুঁজে বিচ্ছেদ করে দেখাও :  
 সে খুব আশ্চর্য হল।
- ১০.১৯। নিগত শব্দটির সন্ধিবিচ্ছেদ করো।
- ১০.২০। শূন্যস্থান পূরণ করো :  
 গণ + \_\_\_\_\_ = গণেশ

১১. ক) ভাবার্থ লেখো :

সার্থক জনম আমার জন্মেছি এই দেশে,  
সার্থক জনম মাগো তোমায় ভালো বেসে।  
জানিনে তোর ধন-রতন আছে কিনা রানীর মতন,  
শুধু জানি আমার অঙ্গ জুড়ায় তোমার ছায়ায় এসে।  
কোন বনেতে জানি নে ফুল গন্ধে এমন করে আকুল  
কোন গগনে ওঠে রে চাঁদ এমন হাসি হেসে।  
আঁখি মেলে তোমার আলো প্রথম আমার চোখ জুড়ালো,  
ঐ আলোতেই নয়ন রেখে মুদব নয়ন শেষে।

অথবা,

খ) সারাংশ লেখো।

বর্তমান সভ্যতায় দেখি, এক জায়গায় একদল মানুষ অল্প উৎপাদনের চেষ্টায় নিজের সমস্ত শক্তি নিয়োগ করেছে, আর এক জায়গায় আর একদল মানুষ স্বতন্ত্র থেকে সেই অল্পে প্রাণ ধারণ করে। চাঁদের যেমন একপিঠে অন্ধকার, অন্যদিকে আলো, এ সেইরকম। একদিকে দৈন্য মানুষকে পঙ্গু করে রেখেছে - অন্যদিকে ধনের সম্মান, ধনের অভিমান, ভোগবিলাস সাধনের প্রয়াসে মানুষ উন্মত্ত। অল্পের উৎপাদন হয় পল্লিতে আর অর্থের সংগ্রহ চলে নগরে। অর্থ উপার্জনের সুযোগ ও উপকরণ যেখানেই কেন্দ্রীভূত, স্বভাবতই সেখানেই আমার আরোগ্য, আমোদ ও শিক্ষা ব্যবস্থা প্রতিষ্ঠিত হয়ে অপেক্ষাকৃত অল্পসংখ্যক লোককে ঐশ্বর্যের আশ্রয়দান করে। পল্লিতে ভোগের সেই উচ্ছিষ্ট যা কিছু পৌঁছয় তা যৎকিঞ্চিৎ।

THE BSS SCHOOL

Summative Assessment -1(2021)

Class- IX

Subject -Hindi (1st language)

Time: 3hrs

Full marks:-90

1)निम्नलिखित प्रश्नों के सही विकल्प चुनकर लिखिए :- (1×19=19)

i) महादेवी वर्मा को कहाँ के विधान परिषद का सदस्य मनोनीत किया गया?

क ) बंगाल

ख ) मध्य प्रदेश

ग ) उत्तर प्रदेश

घ ) बिहार

ii) कवयित्री वसंत रजनी से कहाँ से उतरने का आग्रह करती है?

क ) धरती

ख ) पेड़

ग ) क्षितिज

घ ) नदी

iii) पठित कविता में किसके दर्द को व्यक्त किया गया है?

क ) लकड़ी

ख ) पेड़

ग ) चूल्हा

घ ) धामिन

iv) सत्तू की गठरी पीठ पर लादकर कौन महिषादल तक गया था?

क ) सूर्यकांत त्रिपाठी निराला

ख ) अरुण कमल

ग ) कुंवर नारायण

घ ) सर्वेश्वर दयाल सक्सेना

v) कवि किस समय हावड़ा स्टेशन पर उतरे थे ?

क ) सुबह

ख ) दोपहर

ग ) शाम

घ ) रात

vi) तिलकधारी युवक के घर में कौन घुस गया था?

i) चिड़िया

ख ) छिपकली

ग ) मुर्गी

घ ) चुहिया

vii) किसको अपनी ताकत का नशा था?

क ) काजी साहब

ख ) जामिद

ग ) पंडित राजकुमार

ग ) तिलकधारी युवक

viii) जनरल साहब का क्या नाम था?

क ) येल्दीरिन

ख ) झिगालोव

ग ) खूकिन

घ ) ओचुमेलोव

ix) तप विश्व की प्रकृति का क्या है?

क ) चिंतन -मनन

ख ) मनन

ग ) चिंतन

घ ) साधना

x) आधुनिक भारतीय पुनर्जागरण का सूत्रपात किसने किया था?

क ) राजा राममोहन राय

ख ) आचार्य जगदीश चंद्र बोस

ग ) स्वामी दयानंद सरस्वती

घ ) गुरु नानक

xi) हमारे शब्द और मस्तिष्क सृष्टि के गूढ़ रहस्य को क्या करने में असमर्थ है?

क ) आत्मसात

ख ) अंतःकरण

ग ) स्वीकार

घ ) अस्वीकार

xii) भाषा कितने प्रकार की होती हैं?

क ) दो

ख ) सात

iii) चार

घ ) पाँच

xiii) किस भाषा में बोलने तथा लिखने की समानता पाई जाती है?

क ) पंजाबी

ख ) फारसी

ग ) खड़ीबोली हिन्दी

घ ) अंग्रेजी

xiv) स्वर वर्णों की संख्या कितनी है?

क ) 11

ख ) 12

ग ) 13

घ ) 14

xv) 'सारांश' शब्द में निहित संधि का नाम है -

क ) स्वर

ख ) व्यंजन

ग ) विसर्ग

घ ) इनमें से कोई नहीं

xvi) 'ट' वर्ण का उच्चारण स्थान क्या है?

क ) मूर्धा

ख ) जिह्वा मूल

ग ) कंठ

घ ) तालु

xvii) सही अंतस्थ वर्णों का चयन कीजिए -

क ) श, ष, स, ह

ख ) क्ष, श्र, त्र, ञ

ग ) य, र, ल, व

घ ) य, र, श्र, ह

xviii) आर्य परिवार की भाषा है -

क ) हिंदी, मराठी, गुजराती आदि

ख ) उर्दू, अंग्रेजी, पंजाबी आदि

ग ) तेलुगू, तमिल, कन्नड़, मलयालम आदि

घ ) इनमें से कोई नहीं

xix) किस समास में दोनों पद प्रधान होते हैं?

क ) तत्पुरुष समास

ख ) कर्मधारय समास

ग ) अव्ययीभाव समास

घ ) द्वंद्व समास

2) लघु उत्तरीय प्रश्न

(1×19=19)

i) पठित कहानी में बूढ़े दुर्बल मनुष्य को कौन मार रहा था और उसे किसने बचाया ?

ii) " यह उनका मकान नहीं है। शायद तुम भूल गए हो।" उक्त पंक्ति के वक्ता एवं श्रोता का नाम लिखें !

iii) मित्री मित्रिच से किसे, किस विषय में काम था?

iv) खूकिन अपना कौन सा हाथ उठाकर, कैसी उंगली दिखा रहा था?

v) किसके कंधे पर बैठकर और किसकी पालकी में सजकर कवि कलकत्ता पहुँचे थे?

vi) महादेवी वर्मा के किन्हीं दो रचनाओं के नाम लिखें।

vii) पेड़ के टुकड़े-टुकड़े किनके द्वारा हुए ?

viii) बौद्धों के धर्म ग्रंथ का नाम लिखते हुए बताएं कि उसकी भाषा क्या है?

- ix) प्राकृत भाषा में रचित किन्हीं दो काव्य ग्रंथों का नाम लिखें ।
- x) भारत ने अपना पवित्र ग्रंथ किसे माना है और हमें मूल सत्य की याद किसने दिलायी?
- xi) राजा राममोहन राय ने एक सच्चा धार्मिक व्यक्ति किसे कहा है?
- xii) सभी धर्मों का सार क्या है और हमारा दृष्टिकोण कैसा है?
- xiii) व्यंजन संधि की सोदाहरण परिभाषा लिखें ।
- xiv) उपभाषा किसे कहते हैं? ।
- xv) समास पृथक कर नाम लिखें - बेआबरू ।
- xvi) भाषा और बोली के किसी एक अंतर को लिखें ।
- xvii) ईषत विवृत्त की सोदाहरण परिभाषा लिखें ।
- xviii) वाक्य शुद्ध करें ।

" जामिद इसी श्रेणी के मनुष्यों पर था ।

xix) कारक किसे कहते हैं?

3) निम्नलिखित किन्हीं दो प्रश्नों के उत्तर लिखें :- (4×2=8)

क ) " हुजूर! मालूम पड़ता है कि कुछ झगड़ा- फसाद है ।"

----- उक्त अंश के वक्ता एवं श्रोता का नाम लिखें ।

----- संदर्भ सहित पंक्ति की व्याख्या करें । (1+1+2=4)

अथवा

" समाज की दृष्टि में ऐसे लोग दंडनीय है ।"

उपर्युक्त अंश किस पाठ से लिया गया है, बताते हुए पंक्ति का आशय स्पष्ट करें । (1+1+2=4)

ख ) " एक बार फिर मैं ढूँढता हूँ अपनी चाल, अपनी गति

दुनिया की समस्त गतियों के मध्य ।"

----- 'मैं' से कौन संकेतित है, बताते हुए प्रसंग सहित पंक्ति की व्याख्या करें । (1+1+2=4)

अथवा

" पुलकित स्वप्नों की रोमावली,

कर में हो स्मृतियों की अंजली।"

----- पाठ एवं कवि का नाम लिखते हुए प्रस्तुत पद्यांश की व्याख्या करें (1+3=4)

4) यथानिर्देश निम्न प्रश्नों के उत्तर लिखिए :- (6×3=18)

क ) प्राचीन काल की किन्हीं दो विदुषी स्त्रियों का नाम लिखें। 'अनर्थ का बीज उसमें हरगिज नहीं है' - पंक्ति के आधार पर निबंध की सार्थकता को प्रमाणित करते हुए उसकी प्रांसगिकता पर प्रकाश डालिए। 1+3+2=6

ख ) 'गिरगिट' कहानी का उद्देश्य स्पष्ट करते हुए प्रमुख पात्र का चरित्र -चित्रण कीजिए। 2+4=6

ग ) 'पेड़ का दर्द' कविता द्वारा कवि क्या संदेश देना चाहते हैं, कविता का मूल भाव उद्धरण सहित लिखिए। 2+4=6

5) यथानिर्देश निम्न प्रश्नों के उत्तर लिखिए :- (6×2=12)

क ) पठित पाठ के आधार पर समाज - सुधारक के रूप में राजा राममोहन राय के योगदान का उल्लेख करें।

ख ) पाठ के आधार पर प्रमाणित कीजिए कि राजा राममोहन राय 'आधुनिक भारत के प्रणेता' थे।

6) हिंदी में अनुवाद करें :- (6)

It is very difficult to get rid of bad habits. So, we should be very careful that we do not get bad habits in our bodyhood. Idleness is one such bad habit. Every boy and girl should be diligent. They should see idleness as poison. It should be their duty to obey the superiors and carry out thier orders.

7) भाव विस्तार करें :- (कोई एक) (5)

नर हो, न निराश करो मन को।

अथवा

अधजल गगरी छलकत जाए।

8) निम्न अवतरण में उचित स्थान पर विराम -चिह्न लगाएँ। (3)

i) ' तुम तो मुसलमान हो न

ii) ' हुजूर मालूम पड़ता है कि कुछ झगड़ा फसाद है !'

iii) ' राजा मात्र कहकर उनके पास संदेसा भेजा

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**THE BSS SCHOOL**  
**SUMMATIVE ASSESSMENT I – 2021**  
**CLASS IX**  
**SUBJECT – ENGLISH**

**FULL MARKS: 90**

**TIME: 3 HOURS**

**Section– A**

**Reading Comprehension (Seen)**

**1. Read the passage carefully and answer the questions that follow-**

Bhola Grandpa and his wife lived at the western end of our village. A large bokal tree overshadowed their hut. In the bokal tree lived a small troop of monkeys. Bhola Grandpa and his wife did not mind it.

One moonlit night, we were returning from a festival. The road was long and foggy. I was riding on the village chowkidar's shoulders. Suddenly, Bhola Grandpa let out a loud wail. Everyone in our party was surprised. We halted. Enquiry revealed that Bhola Grandpa had taken his grandson to the festival. He had tightly held on to the two fingers of the boy. He did not realize when those fingers slipped out. Bhola Grandpa was continuing as before. Then someone asked Bhola Grandpa what he was gripping. He remembered his grandson and let out a loud wail.

My father chose two sharp-eyed men from our party to go back with Bhola Grandpa to the festival. The grandson was found before long. He had taken a cosy shelter under a cow's belly.

I remember another funny incident about Bhola Grandpa related by my father. It had been a rainy afternoon. Bhola Grandpa, wild with excitement, told my father and his friends that he had seen a gang of pirates. They were burying a large box under one of the sand dunes on the seashore by our village. At once father and his friends started looking for the hidden treasure. Evening passed on to night. Moonlight came in through the clouds. A pack of jackals were howling. It was past midnight. At this point of time, Bhola Grandpa confessed that there was no real treasure. It was all a dream which he had during his midday nap.

Once Bhola Grandpa had a great adventure in the Sunderbans. In those days Royal Bengal tigers freely roamed the dense jungles of the Sunderbans. People took care to move about only in groups, particularly after sundown.

One evening Bhola Grandpa was returning from the weekly market. Suddenly at a distance of about five yards behind him, he heard the growl of a Royal Bengal tiger. Bhola Grandpa turned and found the bright gaze of the tiger on his face.

**A. Tick the correct answer from the given alternatives-**

**(1x2=2)**

(i) The hut was overshadowed by

(a) a large banyan tree

(b) a large bokal tree

(c) a massive elm tree

(d) a large mango tree

(ii) One moonlit night they were returning from

(a) a village fair

(b) Bhola Grandpa's house

(c) a village festival

(d) the narrator's house

**B. Fill in the following chart with information from the given passage-**

**(1x2=2)**

Cause	Effect
(i) _____ _____ _____ _____	(i) Two sharp-eyed men were chosen by the author's father.
(ii) Someone asked Bhola Grandpa what he was gripping.	(ii) _____ _____ _____ _____

**C. State whether the following statements are True or False. Provide supporting statements for your answer-**

**(1x2=2)**

(i) Bhola Grandpa and his wife were not much bothered about the monkeys.

Supporting statement \_\_\_\_\_

(ii) The narrator was riding on a bullock cart.

Supporting statement \_\_\_\_\_

**D. Answer the following questions within fifteen words-**

**(1x2=2)**

(i) What were the pirates doing and where?

Ans: \_\_\_\_\_

(ii) Where did the Royal Bengal tigers roam freely?

Ans: \_\_\_\_\_

**E. Answer the following question within twenty-five words-**

**(2)**

(i) When and what did Bhola Grandpa confess about the treasure?

Ans: \_\_\_\_\_

**F. Complete the following sentences using the information given in the passage-**

**(1x2=2)**

(i) Bhola Grandpa's grandson was finally found taking \_\_\_\_\_

(ii) One evening while returning from the market Bhola Grandpa heard \_\_\_\_\_

**2. Read the extract of the poem and answer the questions that follow-**

I love to see the shaking twig

Dance till the shut of eve

The sparrow on the cottage rig,  
 Whose chirp would make believe  
 That spring was just now flirting by  
 In summer's lap with flowers to lie.  
 I love to see the cottage smoke  
 Curl upwards through the naked trees,  
 The pigeons nestled round the cote  
 On dull November days like these;  
 The cock upon the dung-hill crowing,  
 The mill sails on the heath a-going.  
 The feather from the raven's breast  
 Falls on the stubble lea,  
 The acorns near the old crow's nest  
 Fall pattering down the tree;  
 The grunting pigs, that wait for all,  
 Scramble and hurry where they fall.

**A. Tick the correct answer from the given alternatives:**

**(1×2=2)**

(i) The pigeons nestled

(a) near the casement

(b) round the cote

(c) on the heath

(d) near the cottage

(ii) The cottage smoke can be seen to

(a) rise upwards

(b) blow rapidly

(c) curl upwards

(d) wind upwards

**B. Fill in the following chart with information from the text:**

**(1×2=2)**

CAUSE	EFFECT
(i)The raven's feather blows in the wind.	(i) _____ _____ _____ _____
(ii) _____	(ii)The grunting pigs hurry to eat them.

_____	
_____	
_____	

**C. Answer the following questions within fifteen words-**

**(1x2=2)**

(i) Which time of the year is referred to in the poem?

Ans: \_\_\_\_\_

(ii) How does the poet describe the movement of the 'shaking twig'?

Ans: \_\_\_\_\_

**D. Answer the following question within twenty-five words-**

**(2)**

(i) What does the chirping of the sparrow suggest?

Ans: \_\_\_\_\_

**Reading Comprehension (Unseen)**

**3. Read the following passage and answer the questions that follow:**

For the second year in a row, tiger population in the Indian Sunderbans has shown an increase. This year, a camera-trap exercise has captured at least six more tigers in the mangroves.

According to a forester, associated with the exercise, 87 unique frames were captured by the camera-traps in the mangroves, including the tiger reserve area and the South 24 Parganas forest division. The count was 81 last year. The latest exercise was conducted between December 2016 and June 2017. The mangroves is home to at least 87 tigers, with the possibility of more big cats being present, said the forester. He further added, "It's not possible to photograph all the tigers in a forest."

While the average figure is yet to be analysed, officials expect the number to be around 90 this time, compared to last year's 81. "The trend is positive, but we are still in the process of analysing the final figure that will be checked by the Wildlife Institute of India," said the Chief Wildlife Warden Ravikant Sinha.

He, however, added that the cubs which were camera-trapped last year have grown up and have probably been photographed again this year. This, he observes, can be a reason behind the positive trend.

Sources revealed that, while 62 tigers were photographed in the tiger reserve area – seven more than last year – 25 were clicked in the South 24 Parganas division, the forests outside the core area. Pictures of three cubs were also captured, though they were not included in the final figure.

All eyes are now on the 1500 sq. km. South 24 Parganas forest division that has added, at least, eight tigers in the last five years. It recorded seventeen tigers when the camera-trap exercise was first conducted in 2012.

*[Adapted from a report published in The Times of India, dated 30, 2017]*

**A. Tick the right answer:**

**(1x6=6)**

(i) For two successive years the number of tigers in the Indian Sunderbans has

(a) been captured

(b) decreased

- (c) increased  (d) remained the same
- (ii) 87 unique photographs of tigers were captured by
- (a) a forester  (b) the camera-traps
- (c) officials  (d) hunters
- (iii) The mangroves shelter
- (a) 87 tigers  (b) 81 tigers
- (c) 25 tigers  (d) more than 87 tigers
- (iv) Ravikant Sinha is
- (a) the Chief Wildlife Warden  (b) a photographer
- (c) a minor forest official  (d) a journalist
- (v) The number of tigers photographed last year was
- (a) 81  (b) 90
- (c) 55  (d) 62
- (vi) The camera-trap exercise was conducted for the first time in
- (a) 2016  (b) 2012
- (c) 2017  (d) 1986

**B. Each of the following statements is either 'True' or 'False'. Write 'T' for 'True' and 'F' for 'False' in the boxes on the right-hand side. Also pick out suitable line(s) or phrase from the passage in support of your answers:** (1+1)x3=6

- (i) The camera-traps were laid only in the forest division of the South 24 Parganas.

Supporting statement \_\_\_\_\_

- (ii) According to a forester, it is impossible to photograph all the tigers in a forest.

Supporting statement \_\_\_\_\_

- (iii) The average number of tigers has not yet been calculated.

Supporting statement \_\_\_\_\_

**C. Answer the following questions:** (2x4=8)

- (i) Which trend, according to the report is positive?

Ans

- (ii) What is the observation of the Chief Wildlife Warden regarding the increase in tiger population?

Ans: \_\_\_\_\_

- (iii) How many tigers were clicked in the tiger reserve area and how many in the forests outside the core area?

Ans: \_\_\_\_\_

- (iv) When was the latest exercise conducted? By whom will the final figure of the exercise be checked?

Ans: \_\_\_\_\_

**Section- B**

**GRAMMAR and VOCABULARY**

**4. Fill in the blanks with appropriate Articles or Prepositions: (1x4=4)**

Last night Arko dreamt \_\_\_\_\_ Spiderman. He is very much fond \_\_\_\_\_ superheroes that appear \_\_\_\_\_ comic books. In his dream he saw his favourite super hero flying \_\_\_\_\_ his room through the open window.

**5. Do as directed:**

**A. Change the mode of narration: (1x5=5)**

- (i) The boy said to his father, "I did not play cricket yesterday."
- (ii) The old beggar said to Ali, "Please help me."
- (iii) My friend said, "Let us drop the matter now."
- (iv) The little boy exclaimed with fear that the man was very cruel.
- (v) The stranger asked the villager the way to the temple.

**B. Rewrite the sentences after changing the parts of speech of the underlined words as directed: (1x3=3)**

- (i) The magician amused the audience. (Use Noun form)
- (ii) Read the lesson with care. (Use Adverb form)
- (iii) The young girl is a graceful dancer. (Use Noun form)

**6. Given below are the meanings of four words which you will find in Question No. 3. Find out the words and write them in the appropriate boxes on the right-hand side: (2x4=8)**

- (i) related or connected –
- (ii) studied and explained –
- (iii) definite and sure –
- (iv) a person responsible for the supervision of a particular place or activity –

**Section-C**

**WRITING SKILL**

**7. Suppose you and your classmates wish to celebrate Teachers' Day in your school. Write a letter to the Headmaster/ Headmistress of your school seeking permission to organize this.**

**(10)**

**8. Write a dialogue between two friends sharing their experience of attending online classes during the pandemic.**

**(10)**

**9. Write a letter to your younger brother explaining why plastic carry bags should be banned. (Within 150 words)**

**(10)**



- iii. If selling price of 8 guavas is equal to the cost price of 4 guavas ;then find the percentage of the profit or loss.
- iv. If there is 20% loss on the selling price, then what is the percentage of loss on the cost price?
- v. If  $(x - 1)^2 + (x - 2)^2 = 0$ , find  $x+y$ .
- vi. If sum of two numbers is equal to the sum of their reciprocals , then find the product of the numbers.
- vii. Are the equations  $3x+3y-6=0$  and  $15x+15y-30=0$  solvable? If they are solvable then what type of solution occurs?
- viii. Find the value of  $p$ , such that the equations  $3x-4y=1$  and  $9x+py=2$  have only one solution.
- ix. In the square ABCD , M is any point on AD, such that  $\angle CMD = 30^\circ$ . The diagonal BD intersects CM at the point P. Find  $\angle DPC$ .
- x. The length of a diagonal of a rectangle is 5 cm. The length of a perpendicular on a breadth of the rectangle from the intersecting point of two diagonals is 2 cm. Find the breadth of the rectangle.
- xi. There is 20% loss if an article is sold at Rs 96. At what price it should be sold to make a profit of Rs 20.
- xii. In a parallelogram ABCD,  $\angle A : \angle D = 3:2$ . Find the measurement of all the angles of the parallelogram ABCD.
- xiii. The numerical values of the area and the height of an equilateral triangle are equal. What is the length of the side of the triangle.

**3. Answer any two:**

**4x2=8**

- a. If a commodity is sold with successive discounts of 20% and 10%, what will be the equivalent discount?
- b. The cost price of an article is Rs 600 and its marked price is Rs 700. By selling the article there is a profit of 5%. Calculate the discount on the marked price.
- c. In a market, at the time of selling the jute bag, the producer, the wholesaler, and the retailer make a profit of 15%, 20% and 25% respectively. Calculate the price of the bag at which the buyer will buy when its production cost is Rs 140.

**4. Solve any two:**

**3x2=6**

- a.  $3x - \frac{2}{x} = 5$  ;  $x + \frac{3}{x} = 4$
- b.  $x + 2y = 19$  ;  $x + 3y = 24$  [ By the method of cross-multiplication ]
- c.  $2x - 3y = 8$  ;  $\frac{x+y}{x-y} = \frac{7}{3}$

**5. Answer any one:**

**3x1=3**

- a. Mohit wrote a two digit number whose sum of digits is 11 and if 63 is added to the original number then the two digits interchange their place. Find the original number.
- b. The sum of the present ages of a father and his son is 55 years. After 16 years the age of the father will be twice the age of his son. Find the present age of the father and the son.

**6. Solve with the help of the graph:**

**4**

$$3x + 2y = 18 \quad ; \quad 3y - 2x = 1$$

**7. Answer the following:**

**3x3=9**

a. If  $f(x) = x^2 + ax + b$  and  $f(1) = 1$ ,  $f(2) = 2$ . Find the value of  $f(3)$ .

b. For what value of  $k$ ,  $(x+3)$  is a factor of the polynomial  $x^3 + 3x^2 + 3x + k$ .

c. If  $x = 3t$ ,  $y = \frac{2x}{3} - 1$ ; for what value of  $t$ ,  $x = 3y$ .

**8. Answer the following:**

**5**

Prove that if one pair of opposite sides of a quadrilateral are equal and parallel then quadrilateral will be a parallelogram.

**9. Answer any one :**

**3**

a. ABCD is a parallelogram. The internal bisector of  $\angle BAD$  meets DC at P and the bisector of  $\angle BCD$  meets AB at Q. Prove that PAQC is a parallelogram.

b. Prove that the diagonals of a rhombus bisect each other at right angles.

**10. Answer any three:**

**4x3=12**

a. The area of a rectangular field is 84 sq.cm. The difference of length and breadth of the field is 5 cm. Find the perimeter of the rectangular field.

b. In a right angled triangle the lengths of the sides adjacent to the right angle are 18 cm. and 24 cm, Find the length of the perpendicular from the right angular point on the hypotenuse.

c. If the length of the base of an isosceles triangle is 12 cm. and length of each equal side is 10 cm. find the area of the triangle.

d. The length of a rectangular garden is 36m and its breadth is 25m. What is the perimeter of a square garden whose area is equal to the area of the rectangular garden.

**The BSS School**  
**Summative Assessment I 2021**

**History**  
**Class IX**

**Full Marks : 90                      Time : 3 hours**

**I) Attempt all the following : (1 x 20 = 20)**

1. The thinker who called France a political prison was \_\_\_\_\_

- a) George Lefebvre
- b) David Thompson
- c) Marc Bloch
- d) Fernand Braudel

2. The States' General met in May, 1789 on -

- a) 2nd
- b) 3rd
- c) 4th
- d) 5th

3. The French word 'Bourgeoisie' is translated as -

- a) working class
- b) middle class
- c) lower class
- d) peasant class

4. The infamous and inequitable salt tax was called -

- a) Jizya
- b) Zakat
- c) Gabelle
- d) Tithes

5. The philosopher who said, the king is the creation of society was -

- a) Chanakya
- b) Ashoka
- c) Rousseau
- d) Karl Marx

6. Louis XVI was guillotined on 21 st January, in the year -

- a) 1793
- b) 1794
- c) 1795
- d) 1796

7. France became a Republic in the year -

- a) 1789
- b) 1790
- c) 1791
- d) 1792

8. The leader of the Girondins was -

- a) Diderot
- b) Danton
- c) Louis XIV
- d) Marie Antoinette

9. Napoleon was born in the island of -

- a) Crete
- b) Sicily
- c) Madagascar
- d) Corsica

10. The Directory appointed Napoleon as leader of the campaign against the -

- a) Greeks
- b) Polish
- c) Italians
- d) Turks

11. The number of Consuls was -

- a) 1
- b) 2
- c) 3
- d) 4

12. Napoleon became 'The Emperor of the French' in the year –

- a) 1803
- b) 1804

- c) 1805
- d) 1806

- c) Japan
- d) China

13. France gifted the famous Statue of Liberty to America when it wrested freedom from –

- a) Belgium
- b) Spain
- c) England
- d) Holland

17. Mazzini founded the Youth Movement called –

- a) Young soldiers
- b) Young Patriots
- c) Patriotic army
- d) Young Italy

14. In 1798, Napoleon was defeated by Lord Nelson in the Battle of –

- a) Nile
- b) Red Sea
- c) Sahara
- d) Mediterranean Sea

18. Cavour was the Chancellor of –

- a) Scotland
- b) Ireland
- c) Bulgaria
- d) Piedmont-Sardinia

15. The country which became independent from Holland in 1831 was –

- a) Germany
- b) Belgium
- c) France
- d) Switzerland

19. Turkey was called –

- a) Storehouse of knowledge
- b) Sick Man of Europe
- c) Land of privileges
- d) Land of the faithful

16. The country that introduced the Reform Bill was –

- a) England
- b) Italy

20. During the Crimean War, the Russian Czar was –

- a) Tsar Peter
- b) Alexander I
- c) Nicholas I
- d) Alexander II

## II. A) Fill in the blanks (1 x 8 = 8) (Attempt any 8)

- 1) The famous economist \_\_\_\_\_ described France as a museum of economic errors.
- 2) The internal customs duties of pre-revolutionary France were called \_\_\_\_\_.
- 3) The chief weakness of the government of France before 1789 was its faulty \_\_\_\_\_ policy.
- 4) The philosopher \_\_\_\_\_ pointed out that the rule of one individual person not restrained by law was arbitrary.
- 5) Prior to the reign of Louis XVI, the States' General had met for the last time in the year \_\_\_\_\_.
- 6) Napoleon expelled the British Army from \_\_\_\_\_ in 1793.
- 7) A feeling of patriotism was awakened among the Austrians by \_\_\_\_\_.
- 8) The Battle of Leipzig was fought in the year \_\_\_\_\_.
- 9) The House of \_\_\_\_\_ was restored in Holland.

**B) Answer any 8 (1 x 8 = 8)**

- 1) What was Corvee?
- 2) Who were Physiocrats?
- 3) Give the names of two political clubs of France.
- 4) What is Vingtieme?
- 5) What is Guillotine?
- 6) When was the Battle of Waterloo fought?
- 7) What is the national anthem of France?
- 8) What is July Monarchy?
- 9) Who were the signatories of the Treaty of Tilsit?

**III. Attempt any 11 questions (2 x 11 = 22)**

- 1) State the idea of Ancien Regime.
- 2) Explain the Oath of Tennis Court.
- 3) Enumerate the significance of the Fall of Bastille.
- 4) Who were the Sans Culottes?
- 5) Mention two features of the Declaration of the Rights of Man and Citizen.
- 6) What is Thirteenth Vendemaire?
- 7) Explain the Hundred Days' Rule.
- 8) Who was Johann Philippe Palm? Why was he executed?
- 9) Who was Florence Nightingale?
- 10) What was the Ems Telegram?
- 11) What is Zolleverein?
- 12) What was the HetairiaPhilike?

**IV. Attempt any 6 of the following (4 x 6 = 24)**

- 1) What is meant by Aristocratic Revolt?
- 2) Enumerate the Reign of Terror.
- 3) Describe the Code Napoleon.
- 4) State the aims and features of the Metternich System.
- 5) What were the causes of the July Revolution?
- 6) State the circumstances leading to the Crimean War.
- 7) Analyze the Blood and Iron Policy of Bismarck.

**V. Answer any 1 (8 x 1 = 8)**

- 1) Describe the Continental System of Napoleon Bonaparte. Why did he say, "The Spanish Ulcer ruined me"?
- 2) State the causes responsible for the fall of Napoleon Bonaparte.
- 3) Describe the causes of the February Revolution.

**THE BSS SCHOOL**  
**SUMMATIVE ASSESSMENT-I,2021**  
**CLASS -IX**  
**SUBJECT- GEOGRAPHY**

**Time-3 hours**

**Full Marks-90**

**GROUP-A**

**1. Write the correct answer from the given alternatives:(1X14=14)**

- 1.1 The circum navigation of the Earth was first made by  
(a) Aristotle (b) Pythagoras  
(c) Ptolemy (d) Magellan
- 1.2 The polar circumference of the Earth measures  
(a) 40,006 km (b) 40,007 km  
(c) 40,008 km (d) 40,010 km
- 1.3 In terms of size, the position of the Earth is  
(a) Third (b) Fourth  
(c) Fifth (d) Sixth
- 1.4 One of the terrestrial planets is  
(a) Mars (b) Jupiter  
(c) Saturn (d) Uranus
- 1.5 The apparent force that draws a rotating body away from the center of rotation is  
(a) Coriolis Force (b) Centrifugal Force  
(c) Centripetal Force (d) Cohesive Force
- 1.6 Ancient people believed that this celestial body was at the center of the Solar System  
(a) Sun (b) Earth  
(c) Mars (d) Jupiter
- 1.7 The Earth's axis inclines on the orbital plane at an angle of  
(a) 23.5° (b) 60.5°  
(c) 66.5° (d) 67.5°
- 1.8 The speed of Earth's revolution is  
(a) 30 km per second (b) 32 km per second  
(c) 34 km per second (d) 36 km per second
- 1.9 The Trade Winds in the Northern Hemisphere are  
(a) N.W. Trade Winds (b) N.E. Trade Winds  
(c) N.W. Anti-Trade Winds (d) N.E. Anti Trade Winds
- 1.10 'Dusk' or 'Twilight' is the period of the day  
(a) Before sunset (b) Before Sunrise  
(c) After Sunrise (d) After Sunset
- 1.11 The average distance between the Earth and the Sun is  
(a) 148 million km (b) 149 million km  
(c) 150 million km (d) 151 million km
- 1.12 The number of latitudes on either side of the Equator is  
(a) 90 (b) 179  
(c) 180 (d) 181
- 1.13 The latitudes from 60° to 90° are called  
(a) Tropical Latitudes (b) Low Latitudes  
(c) Mid Latitudes (d) High Latitudes
- 1.14 'Indian Standard Time' Meridian is  
(a) 88°30'E (b) 82°30'E  
(c) 86°30'E (d) 80°30'E

**GROUP-B**

**2.1 If the statement is True, write 'T' and if the statement is false, write 'F' against the following:  
(1X6=6)**

- 2.1.1 Jupiter keeps the large rocks away from the Earth by its strong gravity.  
2.1.2 Length of 1° of Latitude at the poles is 111.7 km.

- 2.1.3 As the Earth rotates from East to West, the Sun appears to move from West to East.
- 2.1.4 Venus and Mars spin about their axis in the clockwise direction.
- 2.1.5 All parallels are semicircles.
- 2.1.6 Russia uses 12 time zones.

**2.2 Fill in the blanks with suitable words: (1X6=6)**

- 2.2.1 Aeroplanes fly around the Earth following \_\_\_\_\_.
- 2.2.2 The scientific study of Geoid is known as \_\_\_\_\_.
- 2.2.3 The time when the Sun is vertically overhead in the sky is \_\_\_\_\_.
- 2.2.4 The next leap year will be in \_\_\_\_\_.
- 2.2.5 Change of seasons is not at all experienced in the \_\_\_\_\_ and \_\_\_\_\_ areas.
- 2.2.6 The instrument used to determine Longitude is called \_\_\_\_\_.

**2.3 Answer in one or two words: (1X6=6)**

- 2.3.1 The circumference of the Earth was first measured by this scholar.
- 2.3.2 In all positions in the orbit, the axis of the Earth points to this star in the Northern Hemisphere.
- 2.3.3 What are the climatic divisions of the Earth called?
- 2.3.4 The time difference between GMT and IST.
- 2.3.5 What does the word 'Meridian' mean?
- 2.3.6 The time difference between a Longitude and its antipode is

**2.4 Match the left column with the right column: (1X4=4)**

Left column	Right column
2.4.1 Water on Earth	Great Circle
2.4.2 Equator	Varying length of day and night
2.4.3 Alexandria	70.9%
2.4.4 Solstice	Egypt

**GROUP-C**

**3 Answer the following questions in brief: (2X6=12)**

- 3.1 What is the actual shape of the Earth? Define it.  
OR  
Write down the importance of G.P.S.
- 3.2 State Ferrel's law of deflection.  
OR  
What is meant by Coriolis Effect?
- 3.3 Define Aphelion.  
OR  
Define Perihelion.
- 3.4 Why do Australians celebrate Christmas in the Summer season?  
OR  
What is Aurora?
- 3.5 Define Local Time.  
OR  
Define Antipode.
- 3.6 Why does the rotational speed vary at different latitudes?  
OR  
Mention two uses of parallels of latitudes.

**GROUP-D**

**4. Give a brief explanatory answer of the following: (3X4=12)**

- 4.1 Mention three factors which support life on Earth.

OR

What do you mean by Oblate Spheroid?

4.2 Differentiate between Rotation and Revolution.

OR

What do you mean by Parallelism of the Earth's axis?

4.3 State the factors which cause the variation in the length of days and nights on Earth.

OR

Explain with the help of a diagram the occurrence of Spring Equinox.

4.4 Draw a diagram to show the important parallels of latitude.

OR

Why is Standard Time necessary?

#### GROUP-E

**5 Answer any four questions from the following:**

**(5X4=20)**

5.1 Describe with diagrams the Bedford Level experiment of Earth's sphericity and Foucault's experiment proving Earth's rotation.

5.2 Which is the most important effect of Earth's rotation? Discuss with diagram.

5.3 Describe the position of the Earth on December 22<sup>nd</sup> with the help of a diagram.

5.4 Mention the salient features of Meridians of Longitude.

5.5 When the local time of Kolkata ( $22^{\circ}30'$  North,  $88^{\circ}30'$  East) is 8:10 A.M. a message is sent to Melbourne ( $37^{\circ}50'$  South,  $145^{\circ}$  East). The message took five minutes to reach Melbourne at what time did it reach Melbourne?

#### GROUP-F

**6 Locate the following with appropriate symbols and names on the given outline map of India.**

**Attach the map with your answer paper.**

**(1X10=10)**

6.1 Vindhya

6.2 River Narmada

6.3 Chennai

6.4 Lake Wular

6.5 Malabar coast

6.6 A plateau in the North-Eastern part of India

6.7 The driest part of India

6.8 Mount K2

6.9 An area with mangrove vegetation of Eastern India

6.10 Cape Comorin

**The BSS School**  
**Class IX**  
**Subject: Physical Science**

**Full Marks: 90**

**Time: 3 hours**

**Group A**

1. Choose the correct option:

1.1 A car on applying brakes, stops after 6 second covering 36m. the initial speed of the car is

- a. 12m/s
- b. 10m/s
- c. 5m/s
- d. 20m/s

1.2 Velocity of a particle moving with uniform acceleration

- a. Decreases
- b. Increases
- c. Remains same
- d. Becomes double

1.3 1m=

- a.  $10^8$  angstrom
- b.  $10^{-8}$  angstrom
- c.  $10^{-6}$  micron
- d. None of the above

1.4 Which is not a physical quantity among the following?

- a. Speed
- b. Thermometer
- c. Weight
- d. Lateral thrust

1.5 Action and Reaction are

- a. Equal and opposite forces acting on the same body
- b. Equal and opposite forces acting on 2 different bodies body
- c. Equal forces acting on 2 different bodies
- d. None of the above

1.6 At  $4^{\circ}\text{C}$  , mass of 1l of water is,

- a. 1kg
- b. 1g
- c. 1 g/c.c
- d.  $1\text{kg/m}^3$

1.7 A person sitting in a bus leans backward as the bus starts suddenly. This is due to

- a. Inertia of rest
- b. Inertia of motion
- c. Static equilibrium
- d. Dynamic equilibrium

(1x15=15)

1.8 The Physical quantity which has a unit but no dimension is

- a. angle
- b. pressure
- c. refractive index
- d. mechanical advantage

1.9 Alpha particle is–

- a) Doubly charged He ion
- b) Electron
- c) Proton
- d) Neutron

1.10 Molar volume of a gas is :

- a)2.24L
- b)224L
- c)22.4L
- d)None

1.11 Which pair has same number of atoms ?

- a) 7gm  $\text{N}_2$  and 0.25 mole  $\text{N}_2$
- b) 16gm  $\text{O}_2$  and 44gm  $\text{CO}_2$
- c) 4gm He and 2 moles  $\text{H}_2$
- d) 1.7gm  $\text{NH}_3$  and 4.4gm  $\text{CO}_2$

1.12 Number of electrons in  $\text{K}^+$  :

- a)11
- b)12
- c)18
- d)19

1.13 The average distance of an electron in an atom from its nucleus is of the order of

- a) $10^6$  m
- b) $10^{-6}$  m
- c) $10^{-10}$  m
- d)  $10^{-15}$  m

1.14 Maximum capacity of N shell to accommodate electrons is :

- a)2
- b)8
- c)18
- d)32

1.15 2, 8, 8, 2 is the electronic configuration of :

- a) P
- b) Na
- c) Ca

d)As

### Group B

#### 2. Answer the following:

(1x21=21)

- 2.1 Is the unit of volume a fundamental or derived unit?
- 2.2 How many meters is in one fermi?
- 2.3 What is the absolute unit of force in SI system?
- 2.4 Write the dimension of force.
- 2.5 Define inertia.
- 2.6 Give an example of a body having constant speed but variable velocity.
- 2.7 Give an example of a scalar quantity which is obtained as a product of 2 vector quantities.
- 2.8 What is the difference between circular and rotatory motion?
- 2.9 Give relation between  ${}_{20}\text{Ca}^{40}$  and  ${}_{17}\text{Cl}^{37}$ .
- 2.10 Give configuration of  $\text{P}^{-3}$  ion.
- 2.11 Match the columns:

2.11.1	Becquerel	Plum-pudding model
2.11.2	Rutherford	Radioactivity
2.11.3	Thomson	Neutron
2.11.4	Chadwick	Proton

- 2.12 Give 2 features of nuclear force.
- 2.13 Mention name and formula of the salt used in Bequerel's experiment.
- 2.14 Give number of neutrons in  ${}_5\text{B}^{11}$
- 2.15 Find mass of 0.5 gm-atom of nitrogen.
- 2.16 Define Avogadro's number.
- 2.17 Give relation between mass of electron and proton.
- 2.18 Find number of molecules in 6.4gm  $\text{SO}_2$ . (S=32)

### Group C

#### 3. Answer the following:

(2x9=18)

- 3.1 What do you mean by a sensitive balance? Give 2 conditions for a balance to be sensitive.
- 3.2 A vehicle covers the first half of its journey at 40 km/h and the second half at 60 km/h. Calculate the average speed of the vehicle.
- 3.3 Name a scalar and a vector quantity both of which are derived from all the 3 fundamental quantities. Mention the quantities involved.
- 3.4 Write the relevant units used to measure
  - a. wavelength of light
  - b. radius of atomic nucleus.
- 3.5 Give one limitation of Rutherford's Atomic model. How was it rectified by Bohr?
- 3.6 Between Li and  $\text{Li}^+$  which is more stable and why?
- 3.7 At STP 1.12L of a gas weighs 2.2 gm. Calculate its molecular weight.
- 3.8  ${}_y\text{A}^x$  is an atom. Find the symbol of the species formed if 2 neutrons are added and 2 electrons removed from it.
- 3.9 Which has greater number of molecules- 1 gm molecule of  $\text{H}_2$  or 1 gm of  $\text{H}_2$ ?

OR

Find volume at STP and no. of moles present in 8.5gm ammonia.

### Group D

#### 4. Answer the following:

(3x12=36)

- 4.1 Arrange the following in the descending order of magnitude:  
millimeter, picometer, attometer, femtometer, nanometer, yoctometer
- 4.2 Classify the following quantities as fundamental or derived quantities :  
Displacement, Temperature, force, pressure, momentum, time  
State any 2 features of a unit. [1+2]
- 4.3 State the parallelogram law of addition of forces. what is a chronometer? [2+1]

**OR**, Define one Newton. How long would a force of 30 N act on a body of mass 10 kg so that it acquires a velocity of 12 m/s starting from rest? [1+2]

- 4.4 Represent the following in a displacement time graph  
a. A body moving with uniform velocity  
b. A body moving with variable velocity but uniform acceleration
- 4.5 Establish the following relation using graphical method  
 $S = ut + at^2/2$   
Explain why Newton's first law of motion is also called the law of inertia. [2+1]
- 4.6 a. What is meant by one light year?  
b. Name the other two units which are used to measure interstellar distances and write their relation with kilometer. [1+1+1]

**OR**, How can you measure the following quantities?

- a. Thickness of a page  
b. Length of a segment of a zigzag line  
c. Diameter of a thread [1+1+1]
- 4.7 (i) Draw orbit diagram of Sulphur.  
(ii) Give SI unit of charge of an electron. [2+1]
- 4.8 (i) Atomic weight of chlorine is 35.5. Find percentage composition of the 2 isotopes  ${}_{17}\text{Cl}^{35}$  and  ${}_{17}\text{Cl}^{37}$  present.  
(ii)  ${}_5\text{B}^{10} + {}_2\text{He}^4 \rightarrow \text{_____} + {}_0\text{n}^1$  [2+1]
- 4.9 (i) Give 2 limitations of Bohr's theory.  
(ii) Find total no. of electrons present in 3.2gm sulphur [1+2]

- 4.10 Calculate number of elementary particles in 0.95gm of  $\text{MgCl}_2$ . [Mg=24, Cl=35.5]

OR

From 250mg of  $\text{NH}_3$   $10^{21}$  molecules are removed, find the no. of moles left.

- 4.11 (i) Complete: 1amu = \_\_\_\_\_ kg  
(ii) Give 1 limitation of Plum pudding model  
(iii) Define atomic weight in Oxygen scale. [1+1+1]
- 4.12 (i) Find no. of atoms in 1.12 L of  $\text{H}_2\text{S}$   
(ii)  $\text{CaCO}_3 + 2\text{HCl} \rightarrow \text{CaCl}_2 + \text{CO}_2 + \text{H}_2\text{O}$   
Complete : 2moles + \_\_\_\_\_  $\rightarrow$  \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ [2+1]

**THE BSS SCHOOL**  
**SUMMATIVE EXAMINATION I – 2021**  
**CLASS – IX**  
**SUBJECT – LIFE SCIENCE AND ENVIRONMENT**

**FULL MARKS – 90**

**TIME – 3Hrs**

Group – A

1. **Write the answers in a complete sentence each:**

**[1x10=10]**

- (i) Who is known as the Father of Biology?  
(a) Haldane (b) Aristotle (c) Darwin (d) Mendel
- (ii) Mesosome is found in -  
(a) bacterial cell (b) plant cell (c) animal cell (d) virus
- (iii) The plant tissue which is living and does not have intercellular spaces is -  
(a) meristem (b) parenchyma (c) sclerenchyma (d) collenchyma.
- (iv) Octopus belongs to the phylum -  
(a) arthropoda (b) mollusca (c) chordata (d) annelida
- (v) The fluid part of cytoplasm is known as -  
(a) endoplasm (b) ectoplasm (c) hyaloplasm (d) nucleoplasm
- (vi) Amphibian plant is the other name of -  
(a) algae (b) bryophyta (c) pteridophyta (d) gymnosperm
- (vii) Who proposed the theory of biochemical origin of life?  
(a) Linnaeus (b) Miller (c) Whittaker (d) Oparin and Haldane
- (viii) Which organelle is known as the 'suicidal bag of the cell'?  
(a) ribosome (b) lysosome (c) centriole (d) Golgi bodies
- (ix) In which branch of Biology do we study the structure and function of a cell?  
(a) Histology (b) Cytology (c) Ecology (d) Genetics
- (x) The last part of the backbone is known as -  
(a) thoracic (b) cervical (c) lumbar (d) coccyx

2. **Fill in the blanks:**

**[1x10=10]**

- (i) Large colloidal aggregates formed due to intermolecular attraction are called \_\_\_\_\_.
- (ii) The integration of Biology with computers forms the subject called \_\_\_\_\_.
- (iii) The phenomenon of production of light by some animals is called \_\_\_\_\_.
- (iv) \_\_\_\_\_ is the largest portion of CNS in humans.
- (v) Deficiency of vitamin \_\_ causes sterility.
- (vi) Protoplasmic connections between cells in plants are established through some minute pores called \_\_\_\_\_.
- (vii) Nucleus and \_\_\_\_\_ are together called as protoplasm.
- (viii) Production of millions of sperms by adult male is known as \_\_\_\_\_.
- (ix) Epithelial layers receive nourishment from the underlying connective tissue through the \_\_\_\_\_ membrane.
- (x) Stomach helps in partial digestion of protein by secreting \_\_\_\_\_.

3. Answer in one word or one sentence each: [1x10=10]

- (i) Which organelle is known as 'power house of the cell'? Write the scientific name of mango.
- (ii) What is immunology?
- (iii) Name an alga which is kept in spacecrafts.
- (iv) Who is the propounder of Binomial Nomenclature?
- (v) Name the largest phylum of the animal kingdom.
- (vi) How many alveoli are present in each lung?
- (vii) What is biodiversity?
- (viii) Which organ is known as the 'graveyard of RBC'?
- (ix) Mention two uses of biomedical engineering.
- (x) Which type of venation is noted in the leaves of paddy?

4. Answer the following in brief: [2x5=10]

- (i) What is classification? Mention the importance of classification.
- (ii) Name the five kingdoms of the living world as proposed by Whittaker.
- (iii) What are rhizoids? Which division of non-flowering plants possesses vascular system?
- (iv) Differentiate between angiosperm and gymnosperm (2 points).
- (v) What do you mean by the terms wood fibre and bast fibre?

OR

Write two important differences between tendons and ligaments.

#### Group – B

5. Answer the following: [3x5=15]

- (i) What is taxonomic hierarchy? Give an example of hierarchy from the animal kingdom.  
(1+2=3)
- (ii) Differentiate between chordata and non-chordata (4 points). What is segmentation?  
(2+1=3)
- (iii) Classify blood with the help of a flow chart. (3)
- (iv) What is glandular epithelium? Mention its location and function. (1+1+1=3)
- (v) Mention two important functions of human brain.  
Name the largest internal gland of the human body.  
(2+1=3)

#### Group - C

6. Answer the following questions (any five): [5x5=25]

- (a) Write briefly about the rules of binomial nomenclature. What is Law of Priority? (4+1=5)
- (b) Differentiate between skeletal, smooth & cardiac muscles (3 points). Write two important functions of adipose tissue.  
(3+2=5)
- (c) (i) Distinguish between diploblastic and triploblastic animals (2 points).  
(ii) Name the respective class to which the following belong –  
(a) garden lizard (b) Peacock (c) Salamander (d) Sting ray  
(iii) Give an example of hemichordate. (2+2+1=5)

(d) With the help of a labelled diagram discuss any two the characteristic features of meristematic tissue.

What is the function of aerenchyma? (4+1=5)

(e) Discuss Haldane and Oparin theory through word diagram.

What do you mean by 'hot dilute soup'? (4+1=5)

(f) Explain the structure of nucleus with a labelled diagram. What are ergastic substances?  
(4+1=5)

Group – D

7. Draw a labelled diagram of the following: [5x2=10]

(i) A typical neuron [Label – dendrites, axon, nucleus, Node of Ranvier, Nissl bodies, axon terminal]  
(2+3=5)

(ii) A typical eukaryotic plant cell [Label – mitochondria, cytoplasm, vacuole, cell wall, chloroplast, endoplasmic reticulum].  
(2+3=5)

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