The BSS School
Online Assessment – II (2021)
Subject -Bengali (1st language)
PART- B

Time: 1 hr. 30 mins Full Marks: 50

২ .নীচের প্রশ্নগুলির একটি বাক্যে উত্তর লেখো – 1X5 =5

২.১. 'বঙ্গভাষা 'কবিতায় 'পরদেশ' বলতে কবি কী বুঝিয়েছেন ?

২.২. 'প্রার্থনা 'কবিতায় কবি কাদের কাছে 'অন্ধের যষ্টির' মতো হতে চান ?

২.৩. দুই ভাইসম ভারতবাসীদের কবি কোথায় প্রবেশ করতে বলেছেন ?

২.৪. স্বার্থপর ভারতবাসীরা সভাস্থলে কীসের মিথ্যা দোহাই দেয়?

২.৫.'শিকল ভাঙার গান ' কবিতায় কবি কীসের শিকল ভাঙার কথা বলেছেন ?

৩. নীচের প্রশ্নগুলির উত্তর লেখো :2X2 =4

৩.১. কিশোরেরা তাদের দুহাত দিয়ে কী লুটে নেবে ?

৩.২. প্রার্থনা কবিতায় কবি ফুলের মতো হয়ে সকলের কী সেবা করতে চান ?

৪. নীচের প্রশ্নগুলির উত্তর লেখো : 3X3 =6

৪.১. কী করে কিশোরেরা সারা বিশ্বময় সাড়া জাগিয়ে তুলবে ? 3

৪.২. 'কেলিনু শৈবালে ; ভুলি কমল–কানন ' – 'শৈবাল ' ও ' কমল কানন' বলতে কবি কী বুঝিয়েছেন ? কখন কবি কমল কাননকে ভুলে গিয়েছিলেন ?1 +1+1 =3

৫.নীচের প্রশ্নটির উত্তর লেখো :5X1 =5

৫.১.' সবার আগে চলব মোরা '– কারা সবার আগে চলতে চায় ? তারা এগিয়ে গিয়ে কী কী শিখতে চায় ?ভবিষ্যতে তারা কী কী হয়ে নিজেদের লক্ষ আশা পূরণ করতে চায় তা লেখো. 1+2+2=5

৬. নিচের প্রশ্নগুলির উত্তর লেখো : 2X2 =4

৬.১ . 'পিসেমশাই বললেন ,'কই দেখি ?'– এই কথা শুনে কে কী দেখালো ?

৬.২ .পহলগামের পথে লেখকরা কী দেখেছিলেন ?

৭. নিচের প্রশ্নগুলির উত্তর লেখো :3X3= 6

৭.১. মার্তণ্ড মন্দিরের বিকৃত নাম কী ?এই মন্দিরের সংক্ষিপ্ত বর্ণনা দাও .1 + 2 =3

৭.২. 'এইবার তার চোখ ছানাবড়া !' কী শুনে কার চোখ ছানাবড়া হয়ে গিয়েছিলো ? 2+1= 3

৮.নীচের প্রশ্নটির উত্তর লেখো :5X1 =5

৮.১ .'এই অজ্ঞানতার পাপকে মুছে দিতে হবে ' – এই সংকল্প ছাড়া রামমোহন আর কী সংকল্প নিয়েছিলেন ?'সেই মিলনমন্ত্র 'কোথা থেকে তিনি লাভ করেছিলেন ? কোনো সেদিন রামমোহনের চোখে জল এসেছিলো? 1+1+3

৯.নীচের প্রশ্নটির উত্তর লেখো :5X1 =5

৯.১. হরিদাসবাবু ছুটিতে কোথায় যেতেন ? মরেলগঞ্জ জায়গাটা কোথায় ?সেখানে জঙ্গলে যাওয়ার অভিজ্ঞতা তার কেমন হয়েছিল ?1 + 1 +3

১০. নীচের ব্যাকরণগত প্রশ্নের উত্তর লেখো :1X5=5

১০.১.যে আয় বুঝে ব্যয় করে না তাকে বলে _____.

১০.২. 'বুক্কুন ' হলো –_____.

১০.৩. দিনের শেষ ভাগকে বলা হয় _____.

১০.৪. একই গুরুর শিষ্য হলো _____.

১০.৫. সংক্রান্তি হলো _____.

১১. নীচের অনুচ্ছেদটি বাংলায় অনুবাদ করো (5)

One day a dog stole a piece of meat from a butcher shop. He was crossing over a bridge. Suddenly, he saw his own shadow in the water. he thought that there was another dog and he had bigger piece of meat.

The BSS School
Online Assessment – II (2021)
Subject – Bengali (3rd Language)
Class –VII
PART - B

Time: 90mns **Full marks: 50**

২. 'ছুটি ' কবিতাটি প্রথম ১০ লাইন লেখো।10

3. নীচের শব্দগুলির অর্থ লেখো. 1x10= 10

ক. কৃশ –
খ. তৃণ –
গ. নৃপ –
ঘ. কৃষক –
ঙ. মৃণাল –
চ. বৃষভ –
ছ. পৃথক –
জ. বৃহৎ –
ঝ. শৈল –
ঞ. বৈকাল –

4.নীচের শব্দগুলির বিপরীত শব্দ লেখো :1x6=6

ক. লোভ –
খ. মোটা –
গ. বোকা -
ঘ. চোর
ঙ. কালো –
চ. জোরে –

5. ফাঁকা ঘর ভরো 6

ক. পূজার _____ সাজায় _____.
খ.সুবাস ছড়ায় _____.
গ. _____ রাঙা _____ ভূষণ.
ঘ. _____ পাহাড় চূড়ে.

6. সাজিয়ে লেখো 1x4=4

ক. হ ন মো –

খ. দ ন রো –
গ. খ চো –
ঘ. দা ল কো –

7. বাক্য গঠন করো : 4

ক. দোল –
খ. মৌমাছি –
গ. হৈ চৈ –
ঘ. তেল –

8. নীচের গল্পটা পড়ে উত্তর লেখো 10

টুনটুনি গিয়েছিল বেগুন পাতায় বসে নাচতে।
নাচতে নাচতে খেলো বেগুন কাঁটার খোঁচা.
তাই থেকে তার হলো মস্ত বড়ো ফোঁড়া.
টুনটুনি একে জিজ্ঞেস করে তাকে জিজ্ঞেস করে
সবাই বললে,'ওটা নাপিত দিয়ে কাটিয়ে ফেলো '.।
তাই টুনটুনি নাপিতের কাছে গিয়ে বললো,
'নাপিত দাদা নাপিত দাদা আমার ফোঁড়াটা
কেটে দাও না।' নাপিত শুনে বললো, আমি রাজার
রাজাকে কামাই, আমি তোর ফোঁড়া কাটতে গেলাম আর কি!
টুনটুনি বললো, 'আচ্ছা দেখতে পাবে এখন, ফোঁড়া কাটতে যাও কি না?
বলে সে রাজার কাছে গিয়ে নালিশ করলে,
"রাজামশাই, আপনার নাপিত কেন আমার ফোঁড়া
কেটে দিচ্ছে না? ওকে সাজা দিতে হবে।
শুনে রাজামশাই হো হো করে হাসলেন, বিছানায়
গড়া গড়ি দিলেন, নাপিতকে কিছুই বললেন না.
তাতে টুনটুনির ভারী রাগ হলো।

ক. টুনটুনি কথায় নাচতে গিয়েছিল?
খ. টুনটুনি কিসের খোঁচা খেলো?
গ. সবাই টুনটুনিকে কী করতে বললো?
ঘ. টুনটুনি নাপিতকে গিয়ে কী বললো?
ঙ. টুনটুনি কাকে গিয়েছিলাম নালিশ করলো? শুনে সে কী করলো?

The Bss School
Summative Assessment 2
Class Vll
Hindi First Language
Part- B

F. M. :50 Time :90 minutes

प्रश्न 1) निम्नलिखित प्रश्नों के उत्तर संक्षेप में लिखें। (2×5=10)

क) वीरों के बलिदान के सच्चे साक्षी कौन-कौन हैं?

ख) कवि कैसे धर्म के समर्थक हैं और क्यों?

ग) रानी पद्मिनी ने राणा रत्न सिंह को बचाने के लिए क्या योजना बनाई?

घ) पुरुषवाचक सर्वनाम की परिभाषा उदाहरण सहित लिखिए।

ड.) कर्म और संप्रदान कारक का अंतर सोदाहरण स्पष्ट कीजिए।

प्रश्न 2) व्याख्यामूलक प्रश्न : (5×2=10)

(प्रत्येक खंड से एक -एक प्रश्न का उत्तर लिखें।)

(खंड - क)

अ) "बनता बस उद्यम ही विधि है,
मिलती जिससे सुख की निधि है।"

i) 'विधि' एवं 'निधि' शब्द का अर्थ लिखें।

ii) संदर्भ सहित पंक्ति की व्याख्या करें। (1+1+3=5)

अथवा

आ) "गढ़ते हैं इतिहास देश का, सहकर कठिन क्षुधा की मार।"

i) प्रस्तुत पंक्ति किस पाठ से ली गई है तथा इसके कवि कौन हैं?

ii) 'गढ़ना' और 'क्षुधा' शब्द का अर्थ लिखें।

iii) इन पंक्तियों का भावार्थ लिखिए। (1+1+3=5)

(खंड - ख)

अ)" ऐसा जान पड़ता है, जैसे वे इन्हीं में उछल- उछलकर हंस- खेल रहे हैं।"

i) पाठ एवं रचनाकार का नाम लिखें।

ii) 'वे' और 'इन्हीं' किनके लिए प्रयुक्त हुआ है?

iii) प्रसंग सहित व्याख्या करें। (1+1+3=5)

अथवा

आ) "लड़कों ने तुम्हें इतना मारा फिर भी तुम चुपचाप सहते रहे।"

i) उक्त पंक्ति कौन, किससे कहता है?

ii) पाठ का नाम लिखते हुए पंक्ति की व्याख्या करें। (1+4=5)

प्रश्न 3) विस्तृत प्रश्न : (7×2=14)

क) राजपूत अपनी किन विशेषताओं के लिए प्रसिद्ध हैं बताते हुए रानी पद्मिनी का चरित्र- चित्रण करें। (1+6=7)

ख) 'कोई नहीं पराया' किसके द्वारा रचित है बताते हुए कविता का मूलभाव अपने शब्दों में लिखें। (1+6=7)

प्रश्न 4) मुहावरें का अर्थ लिखकर वाक्य बनाएँ : (कोई तीन) (1×3=3)

टांग अड़ाना, जहर उगलना, चूल्हा न जलना, खरी खोटी सुनाना, किताबी कीड़ा, चैन की बंसी बजाना ।

प्रश्न 5) संधि विच्छेद कर नाम लिखें :(कोई तीन) (1×3=3)

सारांश, परोपकार, पर्यावरण, सदैव, भवन, धर्मात्मा ।

प्रश्न 6) पत्र- लेखन : (कोई एक) (10×1=10)

क) सत्संगति का महत्व बताते हुए अपने छोटे भाई को पत्र लिखें।

ख) समय का सदुपयोग करने की सलाह देते हुए मित्र को पत्र लिखें।

THE BSS SCHOOL
Summative Assessment -2
Subject - Hindi (Third Language)
Class – VII
PART-B

Full marks- 50 Time-90 mins

1. निम्नलिखित प्रश्नों के उत्तर दो- (2×10=20)

क. सागर हमें मन में गहराई लाने के लिए क्यों कहता है?

ख. पर्वत हमें क्या प्रेरणा देता है?

ग. धरती की क्या विशेषताएं हैं?

घ. प्रकृति का संदेश कविता के कवि का नाम बताएं। मीठी-मीठी उमंगे भरने के लिए कौन कहती है?

ङ. राजा वन में क्यों भटक रहा था?

च. राजा कुएं में कैसे गिर गया?

छ. कैसे पता चलता है कि घोड़ा स्वामीभक्त था?

ज. राजा किसके साथ झरोखे में बैठा हुआ था तथा उसने किसे देखा?

झ. रानी,राजकुमार , नौकर -चाकर सब राजा से क्यों रूठ गए?

ञ. भिक्षुक ने राजा को कुएँ में से कैसे निकाला?

2. 'प्रकृति का संदेश' कविता की दस पंक्तियां लिखें। (10)

3. निम्नलिखित प्रश्नों के उत्तर दें : (20)

क. शब्दार्थ लिखें - (कोई चार) (1×4=4)

गहराई, मृदुल, सर्वस्व, आमंत्रण, आशीर्वाद,ऊँचे।

ख. दो -दो पर्यायवाची शब्द लिखें -(कोई दो) (1×2=2)

पर्वत, सागर, पृथ्वी, नभ।

ग. लिंग बदलो-(कोई चार) (1×4=4)

राजा, आदमी, राजकुमार, महाराज, पिता, नौकर

घ. 'रेफ','पदेन'की मात्रा लगाकर शब्द बनाएं- (कोई पाँच) (1×5=5)

टेन, कम, डाइवर, दपण, गाम, बफ, चक, डम।

ङ. वचन बदलो -(कोई पाँच) (1×5=5)

ठेला, बच्चा, टोपी, पुस्तक, मिठाई, केला, चींटी

THE BSS SCHOOL
ONLINE ASSESSMENT II
SUBJECT – ENGLISH
CLASS – VII

FULL MARKS: 50 TIME: 1 HR 30 MINS

PART – B

1. Give the meanings of the following words: (1/2x4=2)

a. reproach b. flabbergasted c. strolling d. malady

2.Give the opposites of the following words: (1/2x4=2)

a. scatter b. despise c. genuine d. redundant

3. Frame sentences with the following: (1x2=2)

a. peculiar b. honour

4. Complete the following sentences: (1x3=3)

a. As the speaker woke from his slumber and opened his eyes

_____

b. In the long delicate fingers of his right hand, the hitch-hiker was holding up in triumph the _____

c. The speaker was not ready to pay the doctor his visit because

_____

5.Answer the following questions briefly:(2x3=6)

a. Which are the things the travellers did not notice as they embarked on their journey?

b. When asked by the policeman, what information did the hitch-hiker give about himself?

c. Mention the symptoms of the cold the speaker was troubled with.

6. Answer the following Questions: (5x3=15)

a. In the poem, 'The Journey', what did the speaker's companions do when they saw that he had stopped to rest?

b. How did the hitch-hiker show the writer that he was in a 'highly skilled trade'?

c. In what way has the doctor's diagnosis been mocked at in the last stanza of the poem, 'Common Cold'? Explain with examples.

7. Read the passage carefully and answer the questions that follow: (10)

The great defect of our civilization is that it does not know what to do with its knowledge. Science has given us powers fit for the Gods, yet we use them like small children. For example, we do not know how to manage our machines. Machines were made to be man's servants; yet he has grown so dependent upon them that in a fair way they have become his masters. Already most men spend most of their lives looking after and waiting upon machines. And the machines are very stern masters. They must be fed with coal and petrol to drink, and oil to wash with, and

they must be kept at the right temperature. If they do not get their meals when they expect them, they grow sulky and refuse to work, or burst with rage, and blow up, and spread ruin and destruction all around them. So we have to wait upon them very attentively and do all that we can to keep them in good temper. Already we find it difficult either to work or play without the machines, and a time may come when they will rule us altogether just as we rule animals.

This brings us to the point – what do we do with all the time which the machines have saved for us, and the new energy that they have given us? On the whole, it must be admitted, we do very little. For the most part, we use our time and energy to make more and better machines; but more and better machines will give us still more time and still more energy, and what are we to do with them? The answer, is that we should try to become more civilized. For the machines themselves, and the power which the machines have given us, are no civilization but aids to civilization.

(i) <u>Answer the following questions:</u>

a) Why are machines very stern masters? (2)

b) What are humans expected to do as more and more machines are produced? (1)

c) What is the big problem of our civilzation that has been highlighted in the passage? (2)

(ii) <u>Complete the given sentences using the information given in the passage:</u> (1x3=3)

a) The extra time and energy machines provide mankind, is used up in _____ _____

b) It is likely that in the future, machines are going to_____

c) A machine is not civilization itself, it is only_____

(iii) <u>Find words from the passage which mean the same as</u>: (1/2x4=2)

a) confessed to be true –

b) miserable and bad tempered –

c) with lot of concentration –

d) uncontrollable anger –

8. Write a letter to your cousin telling her about an interesting hobby that you have developed recently.(Within 120 words) (10)

The BSS School
Summative Assessment II 2021
Subject: History
Class: VII
Part - B

Full marks: 50 **Time: 90 minutes**

A. Answer the following questions- 2×8=16

A.1.Who were known as Mumluk Sultans? What does the word ‘Mumluk' mean?

A.2. Who was the first and the last rulers of the Khalji dynasty?

A.3.What is Sijdah?

A. 4.Name two towns established by Firoz Shah Tughlaq.

A.5. What are the two houses of the Indian Parliament?

A.6. Which Turkish invader plundered the Somnath Temple? What did he do with the plundered wealth?

A. 7. In India when do we celebrate the Constitution day and why is it celebrated on that day?

A. 8. What were the two words added to the Preamble in the year 1976?

B. Answer the following questions- 3×6= 18

B.1. Why did Mahmud of Ghazni invade India?

B.2. Write a short note on Universal Adult Franchise.

B.3. What is the difference between Haj, Sawm and Zakat?

B.4. Discuss the causes of the Crusade.

B.5. What is the meaning of the word, “Arab" ?

B. 6. Discuss Muhammad bin Tughluq ‘s policy on Taxation in the doab.

C. Answer any FOUR of the following questions- 4×4=16

C.1. Who was the military general of Alauddin Khalji? Discuss the military reforms of Alauddin Khalji.

C.2. Discuss the terms “ Sovereign” and “ Republic" in the Indian Constitution.

C.3. When was Jesus crucified? Why was he sentenced to death and crucified?

C. 4. Discuss the significance of 1192.

C. 5. What were the difficulties faced by the rulers of the Slave Dynasty?

THE BSS SCHOOL
Online Assessment-II
Subject- Chemistry
Class-VII

Full Marks: 50 **Time:1:30hr**

I. Answer the following question briefly: (2x5=10)

1.What are the atomicities of Neon, Chlorine, Ozone and Phosphorous?

2.What do you mean by the valency of an element? Name two divalent elements?

3.How do mixtures differ from compounds?

4.Name a method used to separate the pigments of an ink. Name two compounds that can sublime.

5. What information do you get from the following equation? (1x2=2)

$N_2 + 3H_2 \rightarrow 2NH_3$

II. Answer the following in details: (3x6=18)

1. Write chemical names of the following chemical compounds: (3x1=3)

a) $PbCl_2$ b) $KHCO_3$ c) $(NH_4)CO_3$

2.Write the names and the valencies of:

a) PO_4^{3-} b) $Cr_2O_7^{2-}$ c) N^{3-} (3x1=3)

3. Write the chemical names and the formulae of the following compounds? (3x1=3)

a) Silica b) Chalk c) Slaked lime

4. Balance the following skeletal equations: (1X 3= 3)

a) $K_2O + H_2O \rightarrow KOH$

b) $FeBr_2 + Br_2 \rightarrow FeBr_3$

c) $NO + O_2 \rightarrow NO_2$

5. Write the molecular formulae of: (1X 3=3)

a) Calcium nitrate b) Aluminium nitrite c) Ferric iodide

6. How will you separate a mixture of iron nails, calcium carbonate and table salt?

III. Answer the following: (4x3=12)

1.Give four differences between metals and non-metals based on:

a) Ductility b) Sonority c) Physical state d) Lustre

2. Write your observations for the following chemical reactions and name the product formed: (1X4=4)

a) When acid is poured on sodium bicarbonate.

b) Iron nail is dropped into Copper sulphate solution

c) Carbon dioxide and water react together in presence of chlorophyll and sun light.

d) Candle is burnt in presence of air.

3. Match columns A and B

A	**B**
i. Chalk-water solution	a) solid-liquid homogeneous mixture
ii. Air	b)solid-liquid heterogeneous mixture
iii. Smoke	c)gaseous mixture
iv. Sugar solution	d)solid-gas heterogeneous mixture

IV. Answer the following: **(5X2=10)**

1. a) How is distillation more advantageous than evaporation?

b) What are the advantages of chromatography?

c) The valency of magnesium is 2. Write the valency and the name of other radical in $MgCO_3$. (2+2+1=5)

2. Draw a labelled diagram of: (any one) **(1X5=5)**

i) Filtration

ii) Distillation

THE BSS SCHOOL
Summative Assessment 2-2021
Subject – Mathematics
Class – VII

PART-B

Full Marks: 40 **Time : 1 hr. 30 mins**

1. Answer the following : - (2x7=14)

i. Express 36 as the difference of two squares.

ii. Divide: $8x^3 + 7x^2 + x^2$y by $2x^2$

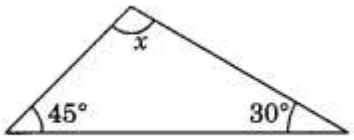
iii. Find the value of $\frac{3\times7^2\times2^4}{21}$

iv. In 3 litres of drink , 60% is water and the remaining is composed of 900 ml rose syrup and the remaining is sugar syrup. What is the percentage of sugar syrup in the whole drink?

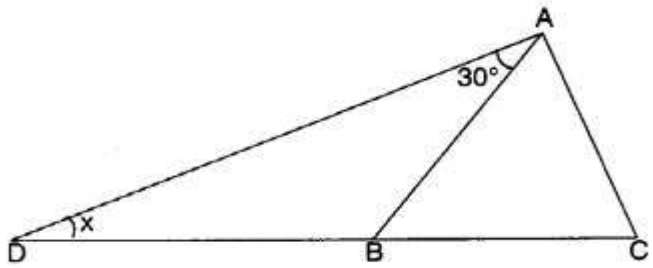
v. Evaluate: $\sqrt{66.4225 + 0.4225}$

vi. The ratio of two numbers is 7:5. If their difference is 30, then find the numbers.

vii. In the given diagrams, find the value of ∠x in each case.



(i)



(ii) △ABC is an equilateral triangle

2. Define with diagram (any two): **(2x2= 4)**

a. Corresponding angles

b. Rotational Symmetry

c. Median of a triangle

3. Answer the following : - (any two) **(3x 2=6)**

i. Ajay and Raj have Rs.1050. On taking Rs.150 from Ajay, Ajay will have same amount as what Raj had earlier. Find the ratio of amounts with Ajay and Raj initially.

ii. 10 men can harvest a field in 2 days.If 6 men refuse to come to work ,then how long will it take to harvest that field?

iii. Out of three numbers , the product of the first and the second number is 3,product of second and third number is 8 2/5 and that of third and first number is 4 3 /8.Find the three numbers.

4. Answer the following :- **(4x1=4)**

A train crosses two bridges of length 210 m and 122 m in 25 seconds and 17 seconds respectively. Find the length and speed of the train.

OR

A boat can travel 8 km/hour in still water. But upstream it takes 4 times of that time to cover the same distance. What time will the boat take to cover 56 kms downstream?

5. Answer the following :- **(3x2=6)**

i. If $\frac{x}{y} + \frac{y}{x} = 3$, find the value of $\frac{x^2}{y^2} + \frac{y^2}{x^2}$

ii. Find the square of the algebraic expression $(3m^3 - 4n^{3)}$ using appropriate formula.

6. Answer the following question : **(3)**

In a local book shop , the number of story books and text books sold during last three years have been listed. Draw a double bar graph of the given data :

	2018	2019	2020
Text books	1200	800	1000
Story books	1400	1100	700

7. Answer the following question by framing equation : **(3)**

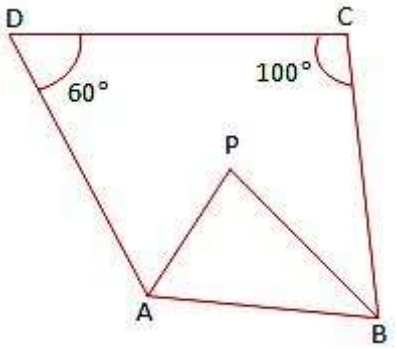
Divide Rs 170 among Manoj , Kiran and Anil in such a way that Kiran gets Rs 30 less than twice the amount Manoj gets and Anil gets Rs 15 more than half the amount Kiran gets. Find how much money each gets.

OR

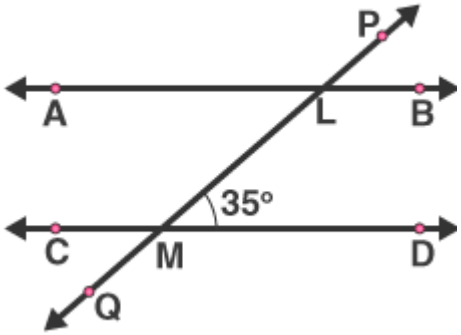
The total number of Rs 5 and Rs 10 coins in a bag is 20. If there is total Rs 145 in the bag , find the number of coins of each kind.

9. Answer the following: **(3x2=6)**

i. In the adjacent figure, the bisectors of ∠A and ∠B meet in a point P.
If ∠C = 100° and ∠D = 60°, find the measure of ∠APB, where ∠PAB=∠PBA.



iii. AB and CD are parallel lines intersected by a transversal PQ at L and M respectively. If ∠LMD = 35°. Find ∠ALM and ∠PLA.



10. Answer the following: (Do not write construction steps) **(4x1=4)**

a. Construct a triangle ABC using ruler and compass, in which BC = 5 cm, AB = AC = 4.5 cm. Name the type of the triangle.

OR

b. Construct a triangle LMN using ruler and compass, given LM = 5 cm, MN = 6.8 cm and ∠LMN = 70°.

THE BSS SCHOOL
SUMMATIVE ASSESSMENT II-2021
CLASS-VII
SUBJECT-PHYSICS

FULL MARKS : 50 **DURATION : 1 HR.30 MINS**

PART-B

A) Answer the following questions: (2X7=14)

1. What is meant by atomic energy and magnetic energy?
2. What is normal incidence? Explain with a diagram.
3. Why does a rose appear red? What will be its color when viewed in green light?
4. Define fusion. "The melting point of ice id 0^0 C". Explain this statement
5. Write the important properties of thermal radiation.
6. Write down the two laws of reflection of light.
7. Why do we prefer to wear white or light coloured clothes in summer?

B) Answer the following questions: (3X8=24)

1. Compare between Potential Energy and Kinetic Energy
2. Explain how the various colours of light are processed by a television. What happens when blue light and red light are combined together?
3. Make a comparative study between regular and diffused reflection of light.
4. Explain why:
    a. Gaps are left between railway tracks
    b. Saw dust is sprayed over slabs of ice
5. With proper labelled diagram, explain the cause of land breeze.
6. Draw a neat diagram to show change in different states of matter. Name the inventor of Celsius scale.
7. State whether light slows down or speeds up in the following cases:
    a) Light going from air to glass
    b) Light going from glass to water
    c) Light going from water to air
8. Write down the differences among conduction, convection and radiation.

C) Answer the following questions: (4X3=12)

1. Draw a neat and labelled diagram of a thermos flask and mention how heat transfer is prevented in it.
2. With relevant diagram, explain image formation of an extended object by a plane mirror. State all the features of thd image so obtained.
3. What is meant by conservation of energy? How is energy conserved in a rollercoaster?

THE BSS SCHOOL
Online Assessment-II
Subject- Chemistry
Class-VII

Full Marks: 50 **Time:1:30hr**

I. Answer the following question briefly: (2x5=10)

1.What are the atomicities of Neon, Chlorine, Ozone and Phosphorous?

2.What do you mean by the valency of an element? Name two divalent elements?

3.How do mixtures differ from compounds?

4.Name a method used to separate the pigments of an ink. Name two compounds that can sublime.

5. What information do you get from the following equation? (1x2=2)

$N_2 + 3H_2 \rightarrow 2NH_3$

II. Answer the following in details: (3x6=18)

1. Write chemical names of the following chemical compounds: (3x1=3)

a) $PbCl_2$ b) $KHCO_3$ c) $(NH_4)CO_3$

2.Write the names and the valencies of:

a) PO_4^{3-} b) $Cr_2O_7^{2-}$ c) N^{3-} (3x1=3)

3. Write the chemical names and the formulae of the following compounds? (3x1=3)

a) Silica b) Chalk c) Slaked lime

4. Balance the following skeletal equations: (1X 3= 3)

a) $K_2O + H_2O \rightarrow KOH$

b) $FeBr_2 + Br_2 \rightarrow FeBr_3$

c) $NO + O_2 \rightarrow NO_2$

5. Write the molecular formulae of: (1X 3=3)

a) Calcium nitrate b) Aluminium nitrite c) Ferric iodide

6. How will you separate a mixture of iron nails, calcium carbonate and table salt?

III. Answer the following: (4x3=12)

1.Give four differences between metals and non-metals based on:

a) Ductility b) Sonority c) Physical state d) Lustre

2. Write your observations for the following chemical reactions and name the product formed: (1X4=4)

a) When acid is poured on sodium bicarbonate.

b) Iron nail is dropped into Copper sulphate solution

c) Carbon dioxide and water react together in presence of chlorophyll and sun light.

d) Candle is burnt in presence of air.

3. Match columns A and B

A	**B**
i. Chalk-water solution	a) solid-liquid homogeneous mixture
ii. Air	b)solid-liquid heterogeneous mixture
iii. Smoke	c)gaseous mixture
iv. Sugar solution	d)solid-gas heterogeneous mixture

IV. Answer the following: **(5X2=10)**

1. a) How is distillation more advantageous than evaporation?

b) What are the advantages of chromatography?

c) The valency of magnesium is 2. Write the valency and the name of other radical in $MgCO_3$. (2+2+1=5)

2. Draw a labelled diagram of: (any one) **(1X5=5)**

i) Filtration

ii) Distillation

The BSS School
Online Assessment – 2
Subject – Biology
Class – VII
Part – B

Full Marks – 50 Time – 90 mins

I. Fill in the blanks : (1×5 = 5)

1. Tissues organise to form _____.
2. _____ bacteria is used for curdling of milk.
3. To test the presence of starch, leaves are treated with _____.
4. In yeast, respiration takes place in absence of _____.
5. _____ is the structural and functional unit of kidney.

II. Give one word answer for the following : (1×5 = 5)

1. Coiled tubes acting as filters and present in the kidneys.
2. Small bones that make up the backbone.
3. Warm blooded animals with mammary glands.
4. Protective and covering tissue in animals.
5. Hard connective tissue.

III . Answer the following briefly : (2×5 = 10)

1. Define osmoregulation.
2. State the normal constituents of human urine.
3. Explain how photosynthesis is different from respiration? (Give two points)
4. Give two differences between Platyhelminthes and Nematode.
5. List out two uses of bacteria in our lives.

IV. Answer the following : (3×3= 9)

a. Why Bryophytes are called amphibians of plant kingdom? What does ‘symbiosis' mean ? (2+1)
b. State any three characteristic features of the phylum Porifera. (3)
c. Write the cause of formation of kidney stones. What are it's symptoms? (1 +2)

V. Answer the following : (5× 3 = 15)

a. Describe the structure of kidney with the help of a labelled diagram. What is Bowman's capsule? (1.5 + 2.5 + 1)
b. Write the word equation for photosynthesis. With the help of experiment, prove that light is essential for photosynthesis. (1+4=5)

c. Classify the following animals into their respective groups (phylum / class) (1×5 =5)
    i) Snail
    ii) Butterfly
    iii) Salamander
    iv) Shark
    v) Whale

V1. Draw a neat and labelled diagram of the following : (3 + 3 =6)

1. Structure of a nephron and label the following : (1.5 +1.5 =3)
    a. Henle's loop
    b. Bowman's Capsule
    c. Proximal convoluted tubule

2. Draw a neat diagram of *Amoeba sp.* and label the following: (1.5 +1.5)
    a. Pseudopodia
    b. Food vacuole
    c. Nucleus

THE BSS SCHOOL
ASSESSMENT-II (2021)
CLASS-VII
SUBJECT- IT & A
SECTION -B

Full Marks : 50 **Duration : 1 Hr 30 Mins**

1. **ANSWER THE FOLLOWING QUESTIONS IN ONE OR TWO WORDS : (1 X 5 =5)**

a. Int, Float, char, Boolean are also known as _____ data types.

b. After compilation Java program is converted to an intermediate language called _____

c. The operators used for combining two or more conditions are known as _____

d. Which class is used for inputting values through keyboard ?

e. A type of Java token whose value remains unchanged during entire execution of the program is known as _____

2. **DETECT THE ERRORS AND WRITE THE CORRECT CODE : (5 X 2 =10)**

a.
```
void main() {
        int y;
        if(x=20)
                System.out.println(“The value is 20”);
        else
                System.out.println(“The value is not 20”);
}
```

b.
```
public static void main()
        int n;
        println(“Enter a number”);
        n=sc.nextInt();
        if n<0
                System.println(“It is a negative number);
        else
                System.println(“It is a negative number)
}
```

3. **WRITE THE JAVA EXPRESSION FOR THE FOLLOWING : (1 + 1)**

a. $y=2(lb+bh+lh)$ b. $s=ut + ½ at^2$

4. PREDICT THE OUTPUT OF THE FOLLOWING PROGRAM SNIPPETS :

a.
```
switch(ch)
{
        case ‘a’ :  System.out.println(“Platform Independent”);
                    break;
        case ‘b’ :  System.out.println(“Object Oriented”);
                    break;
        case ‘c’ :  System.out.println(“Robust and Secure”);
```

```
                    break;
            default  :  System.out.println("Wrong Input");
    }
```

(i) if ch='b' (ii) if ch='x' (iii) if ch='a' **(3)**

b.
```
int a=1, b=1, m=10, n=5;
if((a==1)&&(b==0))
{
        System.out.println(m + n);
        System.out.println(m - n);
}
If((a==1)&&(b==1))

        System.out.println(m * n);
        System.out.println(m % n);}
```

(2)

c. **Predict the output and the number of times the loop runs:**

```
class Test {
 public static void main(String args[]) {
 int i;
for(i=0;i<5;i++)
       System.out.println(i-i*i);
 }
}
```

(3)

5. WHAT WILL THE FOLLOWING FUNCTIONS RETURN (Output)? (1*4=4)

a. Math.round(Math.pow(2.4,2))
b. Math.abs(Math.max(-8,-11))
c. Math.min(-23, -29)
d. Math.ceil(14.8)

6. Distinguish between : **(2*4=8)**

a. = operator and == operator
b. System.out.println() and System.out.print()
c. float data type and double data type
d. Arithmetic operator and Logical Operator

7.

a. Write a program in Java which will accept length and breadth of a rectangle. Calculate and display the Area, Perimeter and Diagonal of the rectangle. **(8)**

Hint : area=length * breadth, Perimeter=2(length+breadth), Diagonal = Square root of ($length^2$ + $breadth^2$)

b. Write a program in Java to find whether a number entered through keyboard is Even or Odd. **(5)**