



SET -

A

**A - SECTION - I**  
**ODIA (COMPULSORY FOR ALL STREAMS)**

1. ସାରଳା ଦାସ ଓଡ଼ିଶାର ବାଲୁଙ୍କି ଥିଲୋ - ରେଖାଙ୍କିତ ଅଂଶଟି କେଉଁ ପଦ ?

(A) ସର୍ବନାମ  
 (B) ବିଶେଷ୍ୟ  
 (C) ବିଶେଷଣ  
 (D) ଅବ୍ୟୟ

2. ରାମଚନ୍ଦ୍ର ରାବଣକୁ ମାରି ସୀତାଙ୍କୁ ଉଦ୍ଧାର କଲୋ - ଏହା କେଉଁ ପ୍ରକାର ବାକ୍ୟ ?

(A) ସରଳ  
 (B) ଜଟିଲ  
 (C) ଯୌଗିକ  
 (D) ମିଶ୍ର

3. 'ଗୋଡ଼ ତଳେ ନଲାଗିବା' ରୂପିତ ଅର୍ଥ କ'ଣ ?

(A) ଅତ୍ୟନ୍ତ ଆନନ୍ଦ ଅବସ୍ଥା  
 (B) ବ୍ୟତିବ୍ୟପ୍ତ ହେବା  
 (C) ଭୟଭୀତ ହେବା  
 (D) ଅତି ଅଛିର ଭାବ

4. ପଦ୍ଧତିଧୂ ଆଧାରରେ ଗଠିତ ଶବ୍ଦଟି ଚିହ୍ନାଅ:

(A) ଆଷାଡ଼  
 (B) ଆନୁଷ୍ଠାନିକ  
 (C) ପାଷଣ  
 (D) କଷଣ

5. 'ତୁଷାର ଧବଳ' - ଏହା କେଉଁ ପ୍ରକାର ସମାସ ନିଷ୍ଠନ ପଦ ?

(A) ଉପମାନ କର୍ମଧାରୟ  
 (B) ଉପମିତ କର୍ମଧାରୟ  
 (C) ରୂପକ କର୍ମଧାରୟ  
 (D) ମଧ୍ୟ ପଦଲୋପୀ କର୍ମଧାରୟ

6. 'ଆରଣ୍ୟ' ଶବ୍ଦଟି କେଉଁ ତତ୍ତ୍ଵିତ ପ୍ରତ୍ୟେ ହାରା ଗଠିତ ?

(A) ଅ  
 (B) ଯ  
 (C) ଛୟ  
 (D) ଏଇ

7. ଶୁଦ୍ଧ ଶବ୍ଦଟିକୁ ବାନ୍ଧିବାକୁ ପାଇଁ କିମ୍ବା :

(A) ମରୁଦ୍ୟାନ  
 (B) ବିରୁପାକ୍ଷ  
 (C) ବୃହଷ୍ଟତି  
 (D) ସର୍ବାଙ୍ଗୀଶ



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SET - A

8. କଳି ଉପଦ୍ରବେ ତ୍ୟକ୍ତି ଲୋକାଳୟ,  
ଶାନ୍ତି କି ଏ ସ୍ଥଳେ ଭଜିଲେ ଆଶ୍ରମୀ-ଏଥରେ କେଉଁ  
ଅଳଙ୍କାର ରହିଛି ?

(A) ଉପମା  
(B) ରୂପକ  
(C) ଉତ୍ସପ୍ରେକ୍ଷା  
(D) ଅନୁପ୍ରାସ

9. ସେ ବୟସରେ ମୋ ଠାରୁ ବଡ଼ା-ରେଖାଙ୍କିତ ପଦଟି  
କେଉଁ ବିଭକ୍ତି ?

(A) ପ୍ରଥମା  
(B) ଦ୍ୱିତୀୟା  
(C) ତୃତୀୟା  
(D) ସପ୍ତମୀ

10. 'ବିଶାଳ ଅକ୍ଷି ଯାହାର ସେ' - ସମସ୍ତ ପଦଟି କ'ଣ  
ହେବ ?

(A) ବିଶାଳାକ୍ଷ  
(B) ବିଶାଳିଷ୍ଟ  
(C) ବିଶାଳାକ୍ଷି  
(D) ବିଶାଳିଷ୍ଟ

11. ଶୁଦ୍ଧ ବାକ୍ୟଟିକୁ ଚିହ୍ନାଥ :

(A) ଆରଟୀ ଓ ମିନଟୀ ଦୁହେଁ ଜାଆନ୍ତା ଭରଣୀ।  
(B) ଗୋଲକ ବିହାରୀ ଧଳ ଜଣେ ଭାଷାତତ୍ତ୍ବିଦୀ।  
(C) ଏ ଦୁନିଆରେ ନୀରୋଗୀ କେହି ନାହାନ୍ତି।  
(D) ମୂଆ ମନ୍ତ୍ରମଣ୍ଡଳ କେବେ ହେବ ଜଣାନାହିଁ।

12. 'ଯତି ପଡ଼ିବା' ରୁଡ଼ିଟିର ଅର୍ଥ କ'ଣ ?

(A) ମାଳି ଜପିବା  
(B) ମେଳ ଖାଇବା  
(C) ନିଜର କରିବା  
(D) ଅତି ଚତୁର

13. 'ଆ' କୃତ ପ୍ରତ୍ୟେ ହାରା ଗଠିତ ଶବ୍ଦଟିକୁ ଚିହ୍ନାଥ ।

(A) କ୍ରୋଧ  
(B) କାରକ  
(C) ମାନ  
(D) ଗତ

14. ମଧ୍ୟ ତା'ର ମାମ୍ବରକୁ ଯାଇଛି ।- ରେଖାଙ୍କିତ ଆଂଶକ  
କେଉଁ ପଦ ?

(A) ବିଶେଷ୍ୟ  
(B) ବିଶେଷଣ  
(C) ସର୍ବନାମ  
(D) ଅବ୍ୟୟ

15. "ଆସନ ସକାଶେ ବୃଦ୍ଧେ ଏଡ଼େ ବାଇ  
ବାଲକେ ଯେସନେ କ୍ରାତ୍ତନକ ପାଇଁ" - ଏଥରେ କେଉଁ  
ଅଳଙ୍କାର ରହିଛି ?

(A) ରୂପକ  
(B) ଉପମା  
(C) ଅନୁପ୍ରାସ  
(D) ଶ୍ରେଷ୍ଠ



ପ୍ରଦତ୍ତ ଅନୁଲେଖଦତ୍ତ ପାଠ କରି ପ୍ରଶ୍ନ (16 ରୁ 20) ଗୁଡ଼ିକର  
ଉତ୍ତର ନିର୍ଣ୍ଣୟ କରି:

ଯୋଗକୁ ହେଉ ବା ଦୁର୍ଯ୍ୟଗକୁ ହେଉ କୁରୁକୁଳର ଆଗାର୍ୟ ଦ୍ରୋଣ ଓ ପ୍ରତ୍ୟାଖ୍ୟାତ ଏକଳବ୍ୟଙ୍କ ମଧ୍ୟରେ ପୁଣି ଥରେ ସାକ୍ଷାତ ହୋଇଛି। ଗୁରୁଙୁ ଚକିତ କରି ଏକଳବ୍ୟ ତା'ର ବିଦ୍ୟାର ପରିଚୟ ଦେଇଛି ଅବଶ୍ୟ ବା ଅପାଂକ୍ରେୟ ହେଲେ ମଧ୍ୟ ଜଣେ ବିଦ୍ୟାକାମୀ ଆପଣାର ଶ୍ରଦ୍ଧା ଏବଂ ବିଶ୍ୱାସ ବଳରେ କିପରି ପରମାଣୁ ସକଳ ନିଷ୍ଠାତାଙ୍କୁ ଲାଗୁ କରିଯାଇପାରେ, ଦ୍ରୋଣାଗାର୍ୟଙ୍କୁ ଏକଳବ୍ୟ ତାହାର ପରିଚୟ ଦେଇଛି। ଯେ କୌଣସି ଆଗାର୍ୟଙ୍କର ଏଥିରେ ଗୋରବ ଅନୁଭବ କରିବାର କଥା ଦ୍ରୋଣାଗାର୍ୟଙ୍କର ହୃଦୟ ଅସଲ ଆଗାର୍ୟର ହୃଦୟ ହୋଇଥିଲେ ଦ୍ରୋଣ ସେହିନ ଏକଳବ୍ୟକୁ ଆହ୍ଵାଦରେ କୁଣ୍ଠାଇ ଧରିଥାନ୍ତେ ଗୁରୁ ଛାଡ଼ିତାରୁ ଶିଖ୍ୟଥାଆନ୍ତା, ପରମାଣୁ ନିର୍ମୋକ ଖସିପଡ଼ି ଥାଆନ୍ତା, ଦ୍ରୋଣାଗାର୍ୟଙ୍କ ଭିତରେ ଥିବା ଅସଲ ଗୁରୁ ସେହିନ ନବଜନ୍ମ ଲାଭ କରିଥାଆନ୍ତା କିନ୍ତୁ ମହାଭାରତକାର ବ୍ୟାସଦେବଙ୍କର କାବ୍ୟଦୃଷ୍ଟିରେ ହୃଦୟ ଏତକ ସାହସ ନ ଥିଲା ସାମାଜିକ ଶ୍ରେୟ ଉପରେ ମାନବିକ (ଆଧ୍ୟାତ୍ମିକ?) ଶ୍ରେୟର ବିପୁଲତାକୁ ଚିହ୍ନିନେବା ଲାଗି ସାହିତ୍ୟ ଦୃଷ୍ଟିରେ ଯେଉଁ ସାହସ ରହିଥିବା ଦରକାର, ବ୍ୟାସଦେବଙ୍କର ହୃଦୟ ସେହି ସାହସ ନଥିଲା ତେଣୁ ଏକଳବ୍ୟର ସାହସ ତାଙ୍କୁ ପ୍ରଧାନତଃ ଦୁଃଖାହସ ବୋଲି ହିଁ ମନେହେଲା ଓ ସେ ଏହି ଦୁଃଖାହସର ଶାସ୍ତି ଦେବାକୁ ଏକ ସାହିତ୍ୟକ ନ୍ୟାୟ ବୋଲି ବିତାର କଲୋ ଏହି ଶାସ୍ତିକୁ ଏକ ଆବଶ୍ୟକତା ବୋଲି ଦେଖାଇବା ଉଦେଶ୍ୟରେ ତାଙ୍କୁ (ଦ୍ରୋଣାଗାର୍ୟଙ୍କୁ) ଆଗାର୍ୟର ଆସନରୁ ତଳକୁ ଓହାଇ ଆଶିବାକୁ ପଡ଼ିଲା। ତେବେ ଯାଇ ଏକଳବ୍ୟ କଥା ସମ୍ପୂର୍ଣ୍ଣ ହେଲା। କୌଳିକତା ଜିତିଲା, କୁଳାନତା ଜିତିଲା; କିନ୍ତୁ ଆଗାର୍ୟ-ପଦର ଅପମାନ କରାଗଲା।

SET - A

16. ଏକଳବ୍ୟର ଦୁଃଖାହସ ପାଇଁ ଶାସ୍ତିକୁ କ'ଣ ବୋଲି ବିତାର କରାଯାଇଛି ?
  - (A) ସାମାଜିକ ନ୍ୟାୟ
  - (B) ଆଗାର୍ୟୀୟ ନ୍ୟାୟ
  - (C) ରାଜକୀୟ ନ୍ୟାୟ
  - (D) ସାହିତ୍ୟକ ନ୍ୟାୟ
17. ଗୁରୁଦ୍ରୋଣ ସେହିନ ଏକଳବ୍ୟକୁ କାହିଁକି ଖୁସିରେ କୁଣ୍ଠାଇ ଧରିଲେ ନାହିଁ ?
  - (A) ଏକଳବ୍ୟ ଶବର ହୋଇଥିବାରୁ
  - (B) ପାଖରେ ଅନ୍ୟ ଶିକ୍ଷ୍ୟ ଥିବାରୁ
  - (C) ଅସଲ ଗୁରୁ ହୃଦୟ ନଥିବାରୁ
  - (D) ଏକଳବ୍ୟ ସ୍ମର୍ଣ୍ଣ୍ୟ ହୋଇନଥିବାରୁ
18. ବ୍ୟାସଦେବଙ୍କର କ'ଣ ଚିହ୍ନିବା ଲାଗି ସାହସ ନଥିଲା ବୋଲି କୁଣ୍ଠାଯାଇଛି ?
  - (A) ନେତ୍ରିକ ସାହସର ବିପୁଲତା
  - (B) ମାନ୍ୟବିକ ଶ୍ରେଷ୍ଠର ବିପୁଲତା
  - (C) ଏକଳବ୍ୟର ଦୁଃଖାହସ
  - (D) ଗୁରୁଦ୍ରୋଣଙ୍କ ଆଗାର୍ୟ ପଦ
19. 'ପ୍ରତ୍ୟାଖ୍ୟାତ ଏକଳବ୍ୟ'- ଏଠାରେ 'ପ୍ରତ୍ୟାଖ୍ୟାତ'ର ଅର୍ଥ କ'ଣ ?
  - (A) ଦୂର୍ଣ୍ଣିତ
  - (B) ଅପାଂକ୍ରେୟ
  - (C) ଦୂରାକୃତ
  - (D) ଅବଶ୍ୟ
20. ଜଣେ ବିଦ୍ୟାର୍ଥୀ କାହା ବଳରେ ପରମାଣୁଗତ ସମସ୍ତ ନିଷ୍ଠାତାଙ୍କୁ ଲାଗିଯାଇପାରେ ?
  - (A) ନିଜର ଶ୍ରମ ଓ ସାଧନା
  - (B) ନିଜର ଶ୍ରଦ୍ଧା ଓ ବିଶ୍ୱାସ
  - (C) ନିଜର ଜ୍ଞାନ ଓ ଗରିମା
  - (D) ନିଜର ବୁଦ୍ଧି ଓ ବିବେକ



SET -

A

**A – SECTION – II**  
**ENGLISH (COMPULSORY FOR ALL STREAMS)**

Read the following poem carefully, and answer the questions (from Q. No. 21 to Q. No. 25) that follow, choosing the correct options.

'Hope' is the thing with feathers  
 That perches in the soul,  
 And sings the tune without the words,  
 And never stops at all.  
 And sweetest in the gale is heard;  
 And sore must be the storm  
 That could abash the little bird  
 That kept so many warm.  
 I've heard it in the chilliest land  
 And on the strangest sea;  
 Yet, never, in extremity,  
 It asked a crumb of me.

21. Which of the following words means 'not easy' ?

(A) Gale  
 (B) Sore  
 (C) Abash  
 (D) Extremity

22. What is considered the sweetest song in the violent storm by the poet ?

(A) Hope  
 (B) The song of the bird  
 (C) Silence  
 (D) The sound of the chilliest land

23. 'Hope' in the poem is compared to \_\_\_\_\_.

(A) a butterfly  
 (B) an insect  
 (C) a kite  
 (D) a bird

24. 'It' in the last line of the poem refers to \_\_\_\_\_.

(A) the poet  
 (B) the land  
 (C) the hope  
 (D) the soul

25. What according to the poet, does 'Hope' do without words ?

(A) perches on the soul  
 (B) flies away  
 (C) sings the tune  
 (D) stops suddenly

26. The cute creation of the creator is bright and beautiful.

The word opposite in meaning of 'creation' is

(A) antique  
 (B) annihilation  
 (C) arbitration  
 (D) alteration



## SET - A

27. Which pair is differently pronounced ?

(A) practice – practise  
 (B) rite – right  
 (C) suit – suite  
 (D) sun – son

28. India scored 175 runs \_\_\_\_\_

6 wickets.

(A) of  
 (B) for  
 (C) on  
 (D) in

29. Try to save some money for your future.

Replace the underlined word with an idiomatic phrase.

(A) put by  
 (B) put in  
 (C) put up  
 (D) put on

30. If I came into fortune, I \_\_\_\_\_ give up working.

(A) will  
 (B) shall  
 (C) may  
 (D) would

31. There are black clouds in the sky.

It \_\_\_\_\_ rain.

(A) will  
 (B) would  
 (C) might  
 (D) is going to

32. He said, "I have an answer to the question." Which is the correct indirect speech of the above sentence ?

(A) He said that he has an answer to the question.  
 (B) He said that he had been an answer to the question.  
 (C) He said that I had an answer to the question.  
 (D) He said that he had an answer to the question.

33. Which letter is silent in the word 'handsome'.

(A) d  
 (B) s  
 (C) h  
 (D) n

**SET - A**

**Read the following passage carefully and answer the questions (from Q. No. 34 to Q. No. 38) choosing the correct option :**

The last half of my life was spent at one of those painful epochs of human history, during which the world seemed to be getting worse; where past victories which had seemed to be definitive have turned out to be only temporary. When I was young, Victorian optimism was taken for granted. It was thought that freedom and prosperity would spread gradually throughout the world through an ordinary process, and it was hoped that cruelty, tyranny and injustice would continually diminish. Hardly anyone was haunted by the fear of great wars. Hardly anyone thought of the nineteenth century as a brief interlude between past and future barbarism.

34. What was the author's view on the course for cruelty, tyranny and injustice ?  
(A) They would gradually diminish.  
(B) They would spread throughout the world.  
(C) They would rapidly expand in the world.  
(D) They would be temporary features.

35. What was the belief of people during the Victorian age ?  
(A) There would be battles in future.  
(B) There would be unlimited freedom for the human society.  
(C) Wars would be fought on a large scale.  
(D) Peace would prevail and happiness would engulf the whole world.

36. The expression, 'a brief interlude between past and future barbarism' in the last sentence of the passage means \_\_\_\_\_.  
(A) a short period of time between past and future acts of cruelty  
(B) a short interlude between two great events  
(C) an interval between cruel wars  
(D) a dramatic performance during wars

37. The author felt sad about the latter part of his life because \_\_\_\_\_.  
(A) he was nostalgic about his childhood  
(B) the world had not become prosperous  
(C) the author had not won any further victories  
(D) the world was painfully disturbed during that period of time

38. The word, 'definitive' used in the passage means \_\_\_\_\_.  
(A) defined (B) final  
(C) temporary (D) incomplete

39. It is two years \_\_\_\_ I saw Bibek.  
(A) for (B) since  
(C) from (D) after

40. The paper-setter made the questions difficult.  
The correct passive form of the above sentence is \_\_\_\_\_.  
(A) The questions has been made difficult by the paper-setter  
(B) The paper-setter was made difficult questions  
(C) The questions were made difficult by the paper-setter  
(D) The questions had been made difficult by the paper-setter



SET -

A

**B – SECTION – III**  
**SCIENCE (CBZ) CHEMISTRY**

41. Which one of the following is an oxide ore ?

(A) Haematite  
 (B) Malachite  
 (C) Zinc blende  
 (D) Copper glance

42. Which of the following ores is best concentrated by froth flotation process ?

(A) Magnetite  
 (B) Chalcopyrite  
 (C) Siderite  
 (D) Malachite

43. Which of the following ions has the highest value of ionic radius ?

(A)  $O^{2-}$   
 (B)  $B^{3+}$   
 (C)  $Li^+$   
 (D)  $F^-$

44. Arrange the following elements in increasing order of first ionisation enthalpy.

Li, Be, B, C, N

(A)  $Li < Be < C < B < N$   
 (B)  $Li < Be < N < B < C$   
 (C)  $Li < B < Be < C < N$   
 (D)  $Li < Be < B < C < N$

45. The IUPAC name of  $CH \equiv C - CH = CH_2$  is

(A) But-3-en-1-yne  
 (B) But-1-en-3-yne  
 (C) But-1-yn-3-ene  
 (D) Buty-1-ne-3-ne

46. Acetone and propen-2-ol are

(A) Position isomers  
 (B) Keto-enol tautomers  
 (C) Positional isomers  
 (D) Chain isomers

47. Which of the following molecules contains no  $\pi$ -bond ?

(A)  $SO_2$   
 (B)  $NCl_3$   
 (C)  $NO_2$   
 (D)  $NO$

48. The number of Sigma ( $\sigma$ ) and Pi ( $\pi$ ) bonds in Pent-1-en-4-yne is

(A) 13  $\sigma$ -bonds and No  $\pi$ -bonds  
 (B) 8  $\sigma$ -bonds and 3  $\pi$ -bonds  
 (C) 10  $\sigma$ -bonds and 3  $\pi$ -bonds  
 (D) 11  $\sigma$ -bonds and 2  $\pi$ -bonds



49. An equilibrium mixture of the reaction

$$2\text{H}_2\text{S}_{(\text{g})} \rightleftharpoons 2\text{H}_{2(\text{g})} + \text{S}_{2(\text{g})}$$

there were 0.5 mole of  $\text{H}_2\text{S}$ , 0.1 mole of  $\text{H}_2$  and 0.4 mole of  $\text{S}_2$  in 1 litre vessel. What is the equilibrium constant ( $K_C$ ) in  $\text{mol} \cdot \text{litre}^{-1}$ ?

(A) 0.004  
(B) 0.008  
(C) 0.016  
(D) 0.160

50. Why pure  $\text{NaCl}$  is precipitated when  $\text{HCl}$  gas is passed in a saturated solution of  $\text{NaCl}$ ?

(A) Impurities dissolve in  $\text{HCl}$   
(B) The product of  $[\text{Na}^+]$  and  $[\text{Cl}^-]$  becomes smaller than  $K_{\text{SP}}$  of  $\text{NaCl}$   
(C) The product of  $[\text{Na}^+]$  and  $[\text{Cl}^-]$  becomes greater than  $K_{\text{SP}}$  of  $\text{NaCl}$   
(D)  $\text{HCl}$  dissolves more in  $\text{NaCl}$  solution than water

51. Two elements A and B combine to form two compounds  $\text{AB}_2$  and  $\text{A}_3\text{B}_2$ . If 0.1 mole of  $\text{AB}_2$  weighs 10 g and 0.05 mole of  $\text{A}_3\text{B}_2$  weighs 9 g, the atomic masses of A and B are

(A) 20, 30  
(B) 40, 30  
(C) 30, 20  
(D) 60, 40

52. Which of the following contains largest number of atoms?

(A) 4 g He  
(B) 46 g Na  
(C) 0.4 g Ca  
(D) 12 g Mg

53. Which of the following is most stable?

(A)  $\text{CH}_3^+$   
(B)  $(\text{CH}_3)_2\text{CH}^+$   
(C)  $(\text{CH}_3)_3\text{C}^+$   
(D)  $\text{CH}_3\text{CH}_2^+$

54. Benzene reacts with chlorine in presence of sunlight to form

(A) Benzyl chloride  
(B) BHC  
(C) Benzoyl chloride  
(D) None of these

55. All India Radio, Cuttack broadcasts FM Rainbow at a frequency of 101.3 MHz (Megahertz). The wavelength of the electromagnetic radiation emitted by the transmitter is (velocity of light  $C = 3.0 \times 10^8 \text{ ms}^{-1}$ )

(A) 219.2 m  
(B) 290 m  
(C) 29 m  
(D) 2.90 m

SET – A


**SET – A**

56. If the uncertainty in position and momentum are equal, then what will be the uncertainty in velocity ?

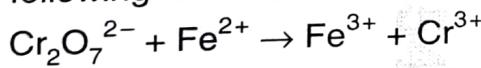
(A)  $\sqrt{\frac{h}{\pi}}$

(B)  $\frac{1}{2m} \sqrt{\frac{h}{\pi}}$

(C)  $\sqrt{\frac{h}{2\pi}}$

(D)  $\frac{1}{m} \sqrt{\frac{h}{\pi}}$

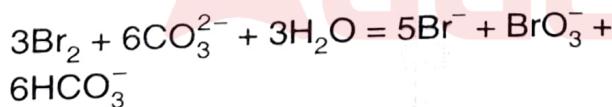
57. Equivalent weight of  $K_2Cr_2O_7$  in the following reaction is



(M = Molecular mass of  $K_2Cr_2O_7$ )

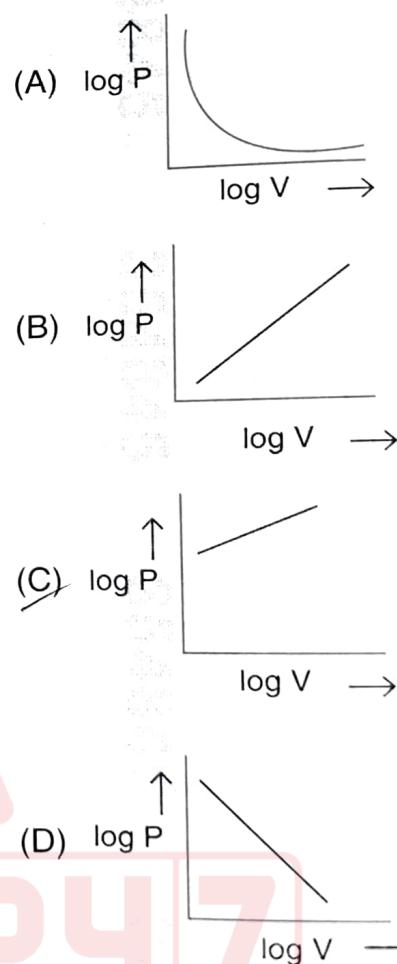
(A)  $\frac{M}{3}$  (B)  $\frac{M}{6}$   
 (C)  $\frac{M}{5}$  (D)  $\frac{M}{4}$

58. In the following reaction,



(A) Bromine is oxidised and carbonate is reduced  
 (B) Bromine is reduced and water is oxidised  
 (C) Bromine is neither oxidised nor reduced  
 (D) Bromine is both oxidised and reduced

59. Which of the following graph correctly represents  $\log P$  vs.  $\log V$  variation as per Boyle's law ?



60. The vapour pressure of a given liquid will decrease if

(A) Surface area of liquid is decreased  
 (B) Volume of liquid in the container is decreased  
 (C) The volume of the vapour phase is increased  
 (D) The temperature is decreased



SET -

A

**B – SECTION – III**  
**SCIENCE (CBZ) BOTANY**

61. Which one does develop into fruit after fertilization ?  
 (A) Ovary  
 (B) Ovule  
 (C) Endosperm  
 (D) Nucellus

62. What is the plant part used in tissue culture called ?  
 (A) Explant  
 (B) Protoplast  
 (C) Callus  
 (D) Cell line

63. Which meristem is responsible for increase in the girth of a stem ?  
 (A) Apical  
 (B) Intercalary  
 (C) Lateral  
 (D) Primary

64. Which is carboxylated to form the first stable product of dark reaction in  $C_3$  plants ?  
 (A) OAA  
 (B) RUBP  
 (C) DHAP  
 (D) PGA

65. What is the cross between  $F_1$  hybrid and the double recessive parents called ?  
 (A) Test  
 (B) Complementary  
 (C) Back  
 (D) Viable

66. What is the genetic inheritance pattern where both alleles for a trait are fully or equally expressed called ?  
 (A) Incomplete dominance  
 (B) Co-dominance  
 (C) Epistasis  
 (D) Polygenic inheritance

67. Which are the products formed during the light reaction of photosynthesis ?  
 (A) ATP and glucose  
 (B) Hydrogen, oxygen and glucose  
 (C) ATP, NADH and  $CO_2$   
 (D) ATP, NADPH and  $O_2$

68. Which are the organelles involved in photo respiration ?  
 (A) Cytoplasm and mitochondria  
 (B) Cytoplasm and chloroplast  
 (C) Cytoplasm, chloroplast and peroxysome  
 (D) Chloroplast, peroxysome and mitochondria

69. Which plant can be propagated from leaf cuttings ?  
 (A) Sugarcane  
 (B) Bryophyllum  
 (C) Bamboo  
 (D) China rose

**SET –****A**

70. What are exogenously borne non-motile asexual reproductive units in fungi called ?  
(A) Ascospores  
(B) Endospores  
(C) Conidia  
(D) Zoospores

71. What is the basis of natural system of plant classification ?  
(A) Reproductive characters only  
(B) Affinities and relationships  
(C) Artificial characters  
(D) Single prominent character

72. Which kingdom does include unicellular eukaryotes ?  
(A) Monera  
(B) Protista  
(C) Fungi  
(D) Animalia

73. Which fungus is the causal organism of rust of wheat ?  
(A) Ustilago tritici  
(B) Phytophthora infestans  
(C) Puccinia graminis  
(D) Penicillium notatum

74. Which is a biological control measure for plant disease ?  
(A) Fungicides  
(B) Antagonistic microorganisms  
(C) Pesticides  
(D) Bacteriocides

75. Which are the parts of ground tissue system ?  
(A) Cuticle, stomata and epidermis  
(B) Cortex, pericycle and pith  
(C) Xylem, phloem and pith  
(D) Pericycle, endodermis and medullary rays

76. Which is unrelated pair ?  
(A) Sclerenchyma – Nucleated  
(B) Chlorenchyma – Chloroplast  
(C) Collenchyma – Living  
(D) Endodermis – Guard cells

77. Which hormone does promote rooting in stem cuttings ?  
(A) Auxin  
(B) Gibberellin  
(C) Cytokinin  
(D) Phytochrome

78. Which plant hormone does promote dormancy in seeds and buds ?  
(A) Cytokinin  
(B) Abscisic acid  
(C) Auxin  
(D) Gibberellin

79. Which are called vascular cryptogams ?  
(A) Angiosperms  
(B) Gymnosperms  
(C) Bryophytes  
(D) Pteridophytes

80. Which aquatic ecosystem is a National Park in Odisha ?  
(A) Chilika Lake  
(B) Bhitarkanika  
(C) Simlipal  
(D) Satakosia



SET -

A

## B - SECTION - III

## SCIENCE (CBZ) ZOOLOGY

81. Which one is not correctly matched ?  
 (A) Mesozoic era – Age of mammals  
 (B) Paleontology – Study of fossils  
 (C) Mutation theory – Hugo de Vries  
 (D) Origin of species – Charles Darwin

82. What are decomposers ?  
 (A) Green plants  
 (B) Phytoplanktons  
 (C) Insects  
 (D) Microorganism

83. The inner surface of Bowman's capsule is lined by a special type of cells bearing microvilli are called  
 (A) Podocytes  
 (B) Squamous cells  
 (C) Renal columns  
 (D) Renal fascia

84. Deficient secretion of which hormone from pituitary gland causes diabetes incipidus ?  
 (A) Insulin  
 (B) Vasopressin  
 (C) Aldosterone  
 (D) Angiotensin

85. Which cell organelle is enclosed by a single membrane ?  
 (A) Chloroplast  
 (B) Lysosome  
 (C) Nucleus  
 (D) Mitochondria

86. When oxygen supply to tissue is inadequate, what is the condition called ?  
 (A) Dyspnea  
 (B) Hypoxia  
 (C) Asphyxia  
 (D) Apnea

87. Which hormone is secreted from pineal gland when exposed to darkness ?  
 (A) Melatonin  
 (B) Oxytocin  
 (C) Insulin  
 (D) Progesterone

88. A motor nerve carries impulse from  
 (A) Brain to receptor organ  
 (B) Receptor organ to brain  
 (C) Brain to effector organ  
 (D) Effector organ to brain

89. Which one is referred to as 'Ecological climax' ?  
 (A)  $\frac{P}{R} = 1$   
 (B)  $P > R$   
 (C)  $P < R$   
 (D)  $P \geq R$

90. Which component of bile is responsible for emulsification of fats ?  
 (A) Bile pigments  
 (B) Bile salts  
 (C) Cholesterol  
 (D) Phospholipid

**SET -****A**

91. Which of the following factors is not responsible for the formation of oxyhaemoglobin in the blood ?  
(A) High  $pO_2$   
(B) Low  $pCO_2$   
(C) High  $H^+$  concentration  
(D) Lower temperature

92. Who proposed the 'Genic Balance Theory' of sex determination ?  
(A) Bridges  
(B) Johannsen  
(C) Karl Correns  
(D) Murray Barr

93. Few large and elongated cells of testes supplying nourishment to developing spermatocytes are  
(A) Sertoli cells  
(B) Leydig cells  
(C) Spermatogonial cells  
(D) Interstitial cells

94. Which type of cleavage is seen in the centrolecithal eggs of insects ?  
(A) Holoblastic  
(B) Discoidal  
(C) Spiral  
(D) Superficial

95. What is the diploid chromosome number in a person suffering from Down's syndrome ?  
(A) 45  
(B) 48  
(C) 46  
(D) 47

96. Which type of phenomenon is demonstrated by 'Industrial Melanism' ?  
(A) Natural selection  
(B) Induced mutation  
(C) Reproductive isolation  
(D) Geographical isolation

97. Which is not the criteria of five kingdom system of classification suggested by Robert H. Whittaker ?  
(A) Absence of a well defined nucleus  
(B) Mode of reproduction  
(C) Mode of nutrition  
(D) Complexity of body organization

98. Which is the longest phase of mitosis ?  
(A) Metaphase  
(B) Telophase  
(C) Anaphase  
(D) Prophase

99. When does erythroblastosis foetalis take place ?  
(A) Mother with  $Rh^+$  blood and foetus with  $Rh^+$  blood  
(B) Mother with  $Rh^+$  blood and foetus with  $Rh^-$  blood  
(C) Mother with  $Rh^-$  blood and foetus with  $Rh^+$  blood  
(D) Mother with  $Rh^-$  blood and foetus with  $Rh^-$  blood

100. From which cells antibodies are formed ?  
(A) T-lymphocytes  
(B) Kupffer Cells  
(C) Platelets  
(D) Plasma Cells



SET - A

**C – SECTION – IV**  
**COMPULSORY FOR ALL STREAMS**  
**CHILD DEVELOPMENT, PEDAGOGY, SCHOOL MANAGEMENT**  
**AND EVALUATION**

101. “Scaffolding” in learning refers to :

- (A) allowing students to learn independently without support of teacher
- (B) allowing students to discover everything on their own
- (C) giving students unlimited help throughout learning
- (D) providing temporary support that is gradually withdrawn

102. Private speech in Vygotsky’s theory refers to

- (A) A speech used only in private spaces
- (B) Talking oneself to guide thinking and behaviour
- (C) Speech directed towards peers
- (D) Conversations between teacher and student

103. A blue-print is developed in order to :

- (A) ensure content validity of the test
- (B) determining scoring procedures
- (C) decide the time limit
- (D) provide distractors for MCQs

104. The principle of validity in test construction ensures that the test :

- (A) gives consistent results on repeated use
- (B) measures what it intends to measure
- (C) is easy for the majority of students
- (D) is easy for administration

105. A school that allows teachers to form committees to manage extra-curricular programmes, while the principal focuses on administrative policies, demonstrates :

- (A) Autocratic management
- (B) Centralized management
- (C) Decentralized management
- (D) Laissez-faire management

106. The SCERT is primarily responsible for :

- (A) conducting secondary board examination
- (B) implementing teacher training programme and curriculum development at the state level
- (C) organizing Teacher Eligibility Tests (TETs)
- (D) allocating funds to schools



SET – A

107. Which type of intelligence is not considered under Gardner's Multiple Intelligence Theory ?

(A) Bodily Kinesthetic  
(B) Musical  
(C) Intrapersonal  
(D) Emotional

108. Negative transfer of learning means

(A) No transfer or less transfer  
(B) Obstruction in learning  
(C) Learning wrong skills  
(D) Learning transfer to other people

109. Which is the key characteristics of portfolio assessment ?

(A) It provides immediate feedback through quiz programs  
(B) It is conducted solely at the end of the learning process  
(C) It is as focussed on academic subjects taught in the school  
(D) It occurs over a longer period to redemonstrate understanding of students' achievement

110. A system where 90 – 100% is always an 'A' grade regardless the class performance is :

(A) Relative grading  
(B) Criterion referenced grading  
(C) Mastery grading  
(D) Absolute grading

111. According to cognitive development theory of Jean Piaget, at which stage a child develops logical thinking of tangible objects ?

(A) Sensory motor stage  
(B) Pre-operational stage  
(C) Concrete operational stage  
(D) Formal operational stage

112. The book "syntactic structures" published in 1957 is authored by

(A) Noam Chomsky  
(B) B. F. Skinner  
(C) Joan Bybee  
(D) Lev Vygotsky

113. What method did Kohlberg primarily use to assess moral reasoning ?

(A) Survey  
(B) Observation  
(C) Interview  
(D) Experiment

114. Which of the following is not a stage of moral development in Kohlberg's Theory ?

(A) Obedience and punishment orientation  
(B) Good interpersonal relationship  
(C) Self actualisation  
(D) Social contract orientation

**SET - A**

115. Which assessment tool provides a systematic collection of students' work over time ?  
(A) Rating scale  
(B) Questionnaire  
(C) Portfolio  
(D) Interview schedule

116. Rubrics typically consist of :  
(A) Numerical marks only  
(B) Levels of performance with clear descriptors  
(C) Anecdotal notes only  
(D) Yes/No check boxes

117. Critical pedagogy was propounded by :  
(A) B. F. Skinner  
(B) Paulo Freire  
(C) Sigmund Freud  
(D) Jean Piaget

118. Which of the following is true about good TLMs ?  
(A) They should be expensive  
(B) They should be large and colourful  
(C) They should be age-appropriate and contextual  
(D) They must be digital

119. Students are asked to set goals, track progress and evaluate their strategies. This best represents :  
(A) Assessment for learning  
(B) Assessment as learning  
(C) Assessment of learning  
(D) Summative assessment

120. Teacher-made tests are generally characterized by :  
(A) a high reliability and standard scoring procedures  
(B) uniform administration and standard norms  
(C) flexibility and alignment with classroom objectives  
(D) being nationally norm-referenced

121. According to Erikson, the basic strength developed during the stage of industry vs inferiority is :  
(A) Hope  
(B) Purpose  
(C) Will  
(D) Competence

122. Which of the following best represents stage 6 (six) reasoning in Lawrence Kohlberg's Moral Development Theory ?  
(A) "I follow the rule because everyone must follow it"  
(B) "I help because I will get a reward"  
(C) "I act according to my internal justice principles"  
(D) "I obey so others will praise me"

**SET -****A**

123. Which is the highest form of internal stakeholder's participations in School Based Management (SBM) ?

- (A) Students are held accountable for their performance
- (B) Students, teachers and parents understand their respective roles in school based management
- (C) Students exercise their rights and fulfils their responsibility
- (D) Students are made aware of their responsibilities and rights

124. What is the prime objective of School Development Plan (SDP) ?

- (A) To create a healthy organisational climate in school
- (B) To cater the needs of the disadvantaged group students
- (C) To make provision for adequate financial resources
- (D) To make community accountable for school development

125. Which of the following is not an example of intrinsic motivation ?

- (A) Curiosity about a new topic
- (B) Love for reading novels
- (C) Writing homework for praise from the teacher
- (D) Interests in solving puzzles

126. Which of the following methods is most associated with teacher-centric learning ?

- (A) Lecture method
- (B) Role play
- (C) Project method
- (D) Problem solving method

127. On what approach is critical pedagogy based on

- (A) Problem solving approach
- (B) Teacher centric pedagogical approach
- (C) Trait approach
- (D) Constructivist approach

128. NEP 2020 recommends '10 days period' as bag less day for students of which classes ?

- (A) 1 to 5
- (B) 1 to 8
- (C) 6 to 8
- (D) 1 to 10

129. By using vocabularies and concept given by teacher, a student writes a poem on his/her own. Which of the following cognitive area is achieved as per Bloom's revised taxonomy ?

- (A) Remembering
- (B) Applying
- (C) Creating
- (D) Evaluating

130. Who believed that action and direct observation were the best ways to educate children ?

- (A) Friedrich Froebel
- (B) John Dewey
- (C) Maria Montessori
- (D) Lev Vygotsky

**SET - A**

131. Heredity influences development because it :  
(A) is the sole determiner of human development  
(B) provides the biological blue-print  
(C) cannot be changed by external factors  
(D) is not always more important than environment

132. The child first learns to control the head before the legs. This statement illustrates  
(A) Differentiation principle  
(B) Integration principle  
(C) Proximodistal principle  
(D) Cephalocaudal principle

133. What is the full form of PARAKH described in NEP 2020 ?  
(A) Performance assessment, review and analysis of knowledge for holistic development  
(B) Performance accreditation, renewal and assessing knowledge for holistic development  
(C) Primary assessment, resource and application of knowledge for holistic development  
(D) Performance assessment, review and application of knowledge for holistic development

134. Which of the following is also known as curricular validity ?  
(A) Content validity  
(B) Predictive validity  
(C) Construct validity  
(D) Concurrent validity

135. The assessment that is typically done before teaching to determine a students' prior knowledge is called :  
(A) Formative assessment  
(B) Summative assessment  
(C) Placement assessment  
(D) Diagnostic assessment

136. Which of the following is not a typical objective of Continuous and Comprehensive Evaluation (CCE) ?  
(A) Holistic assessment of students learning  
(B) Reducing stress and anxiety associated with single terminal examinations  
(C) Evaluating academic memorizations of the learners  
(D) Providing regular feedback and diagnostic insights for teachers and learners

**SET -****A**

**137.** The innate language theory by Noam Chomsky was devised on :

- (A) Language acquisition device and universal grammar
- (B) Language acquisition device and behavioural reinforcement
- (C) Language acquisition device and parental language input
- (D) Language acquisition device and cognition

**138.** In Erikson's stages of psychosocial development, what is the primary psychosocial conflict during adolescence ?

- (A) Trust Vs Mistrust
- (B) Autonomy Vs Shame and doubt
- (C) Identity Vs Role confusion
- (D) Intimacy Vs Isolation

**139.** Cooperative play is typically seen during which stage ?

- (A) Infancy
- (B) Early childhood
- (C) Later childhood
- (D) Adolescence

**140.** Which of the following steps should be taken by the teacher for behavioral changes of an adolescent ?

- (A) Punish the student
- (B) Ignore the behaviour
- (C) Communicate privately and empathetically
- (D) Contact parents immediately without talking to the student

**141.** Arranging items from easy to difficult is done to follow which principle ?

- (A) Fairness
- (B) Objectivity
- (C) Balance
- (D) Proper sequencing

**142.** Which of the following is not a recognition type test ?

- (A) True-false test
- (B) Matching test
- (C) Multiple choice question
- (D) Sentence completion test

**143.** The SMART BOARD is the best example of :

- (A) Projected TLM
- (B) Non-projected TLM
- (C) Audio TLM
- (D) Interactive digital TLM

**144.** When adapting curriculum for dyscalculia, a teacher should :

- (A) Give more complex numerical problems
- (B) Use manipulative like blocks, counters, abacus
- (C) Remove mathematics completely
- (D) Use only textbook methods

**SET - A**

145. Cyber-bullying among adolescents can be reduced by :

- (A) encouraging students for massive use of social media
- (B) ignoring online interaction
- (C) banning all technological uses in school
- (D) teaching digital citizenship and online safety

146. Who defined intelligence as “the aggregate or global capacity of the individual to act purposefully, to think rationally and deal effectively with the environment” ?

- (A) David Wechsler
- (B) George D. Stoddard
- (C) Robert Sternberg
- (D) L. L. Thurstone

147. In 5-E instructional model, ‘explain’ implies :

- (A) Providing opportunity for students to articulate their understanding
- (B) Extending students understanding through new experience
- (C) Allowing students to investigate and build their own understanding
- (D) Capturing student’s interest and curiosity

148. The core component of school board management involves :

- (A) Autocratic leadership
- (B) Empowering internal stakeholders
- (C) Strict adherence to state mandates
- (D) Eliminating performance accountability

149. A good teacher is one who :

- (A) Dictates good notes to students
- (B) Maintains strict discipline and avoids students interacting outside the class
- (C) Encourage curiosity, critical thinking and active learning
- (D) Avoid classroom interaction

150. School Based Management (SBM) is primarily based on which management principle ?

- (A) Division of labour
- (B) Centralization
- (C) Participatory governance
- (D) Autocratic control