

JNUEE BSCMSCINT Ayurveda Biology

Topic:- AYBU411 JNUS21

1) समुचितं मेलनं विधेयम् ?

- | | |
|---------------|------------------|
| (A) उपेन्द्रः | (1) वृद्धिसन्धिः |
| (B) गङ्गौधः | (2) अयादिसन्धिः |
| (C) श्रीशः | (3) गुणसन्धिः |
| (D) हरये | (4) दीर्घसन्धिः |

[Question ID = 17210][Question Description = B.SC.M.SC.AYBU_Q_001]

1. A-4, B-1, C-3, D-2

[Option ID = 134774]

2. A-1, B-3, C-2, D-4

[Option ID = 134775]

3. A-3, B-1, C-4, D-2

[Option ID = 134776]

4. A-3, B-4, C-2, D-1

[Option ID = 134777]

2) ब्रह्मर्षिः इत्यस्य सन्धिविच्छेदं कुरु ?

[Question ID = 17211][Question Description = B.SC.M.SC.AYBU_Q_002]

1. ब्रह्मन् + ऋषिः

[Option ID = 134778]

2. ब्रह्मा + ऋषिः

[Option ID = 134779]

3. ब्रह्म + अर्षिः

[Option ID = 134780]

4. ब्रह् + ऋषिः

[Option ID = 134781]

3) रामस् + शेते इत्यत्र सन्धिं कुरु -

[Question ID = 17212][Question Description = B.SC.M.SC.AYBU_Q_003]

1. रामश्शेते

[Option ID = 134782]

2. रामस्सेते

[Option ID = 134783]

3. रामश्शेते

[Option ID = 134784]

4. रामः शेते

[Option ID = 134785]

4) मध्वरिः इत्यस्य सन्धिविच्छेदं कुरु ?

[Question ID = 17213][Question Description = B.SC.M.SC.AYBU_Q_004]

1. मधु + अरिः

[Option ID = 134786]

2. मध्व + अरिः

[Option ID = 134787]

3. मधू + अरिः

[Option ID = 134788]

4. मध् + अरिः

5) वाक् + ईशः इत्यस्य सन्धिं कुरु -

[Question ID = 17214][Question Description = B.SC.M.SC.AYBU_Q_005]

1. वागीशः

[Option ID = 134790]

2. वागेशः

[Option ID = 134791]

3. वाकीशः

[Option ID = 134792]

4. वाक्कीशः

[Option ID = 134793]

6) मनोरथः इत्यस्य सन्धिविच्छेदं कुरु -

[Question ID = 17215][Question Description = B.SC.M.SC.AYBU_Q_006]

1. मनः + रथः

[Option ID = 134794]

2. मनो + रथः

[Option ID = 134795]

3. मनस् + रथः

[Option ID = 134796]

4. मनोर् + रथः

[Option ID = 134797]

7) मातापितरौ इत्यत्र कः समासः ?

[Question ID = 17216][Question Description = B.SC.M.SC.AYBU_Q_007]

1. बहुब्रीहिः

[Option ID = 134798]

2. द्वन्द्वः

[Option ID = 134799]

3. कर्मधारयः

[Option ID = 134800]

4. तत्पुरुषः

[Option ID = 134801]

8) समुचितं मेलनं विधेयम् ?

(A) गुरुदक्षिणा

(1) बहुब्रीहिः

(B) पीताम्बरः

(2) द्वन्द्वः

(C) पाणिपादम्

(3) अव्ययीभावः

(D) अधिहरिः

(4) तत्पुरुषः

[Question ID = 17237][Question Description = B.SC.M.SC.AYBU_Q_008]

1. A-4, B-1, C-3, D-2

[Option ID = 134802]

2. A-1, B-3, C-2, D-4

[Option ID = 134803]

3. A-4, B-1, C-2, D-3

[Option ID = 134804]

4. A-3, B-4, C-2, D-1

[Option ID = 134805]

9) कुपुरुषः इत्यत्र कः समासः ?

[Question ID = 17238][Question Description = B.SC.M.SC.AYBU_Q_009]

1. तत्पुरुषः

[Option ID = 134806]

2. द्वन्द्वः

[Option ID = 134807]

3. द्विगुः

[Option ID = 134808]

4. अव्ययीभावः

[Option ID = 134809]

10) प्रायेण पूर्वपदप्रधानः..... ?

[Question ID = 17239][Question Description = B.SC.M.SC.AYBU_Q_010]

1. बहुब्रीहिः

[Option ID = 134810]

2. द्वन्द्वः

[Option ID = 134811]

3. अव्ययीभावः

[Option ID = 134812]

4. तत्पुरुषः

[Option ID = 134813]

11) कृष्णसर्पः इत्यत्र समस्तपदस्य विग्रहं किम् ?

[Question ID = 17240][Question Description = B.SC.M.SC.AYBU_Q_011]

1. कृष्णश्च सर्पश्च

[Option ID = 134814]

2. कृष्णस्य सर्पः

[Option ID = 134815]

3. कृष्णश्चासौ सर्पः

[Option ID = 134816]

4. सर्पस्य कृष्णः

[Option ID = 134817]

12) जलजाक्षी इत्यत्र विग्रहवाक्यं किम् ?

[Question ID = 17241][Question Description = B.SC.M.SC.AYBU_Q_012]

1. जलजे इव अक्षिणी यस्या सा

[Option ID = 134818]

2. जलजा इव अक्षी यस्या सा

[Option ID = 134819]

3. जलजम् इव अक्षिः यस्य सः

[Option ID = 134820]

4. जलजे इव अक्षिणी यस्याः सा

[Option ID = 134821]

13) नरः शार्दूल इव इत्यस्य समस्तपदं किम् ?

[Question ID = 17242][Question Description = B.SC.M.SC.AYBU_Q_013]

1. नरशार्दूला

[Option ID = 134822]

2. नरशार्दूलः

[Option ID = 134823]

3. नरशार्दूलम्

[Option ID = 134824]

4. नरसिंहः

14) कृ + ण्यत् इत्यनेन निष्पन्नं भवति ?

[Question ID = 17243][Question Description = B.SC.M.SC.AYBU_Q_014]

1. कार्यम्

[Option ID = 134826]

2. करणीयम्

[Option ID = 134827]

3. कर्तव्यम्

[Option ID = 134828]

4. कर्त्ता

[Option ID = 134829]

15) गृहीतः इति पदम् अधोलिखितेषु केन निष्पद्यते ?

[Question ID = 17244][Question Description = B.SC.M.SC.AYBU_Q_015]

1. गृह् + यत्

[Option ID = 134830]

2. गृह् + क्त

[Option ID = 134831]

3. ग्रह् + क्त

[Option ID = 134832]

4. ग्रह् + तव्यत्

[Option ID = 134833]

16) चयनीयः इत्यत्र प्रत्ययो वर्तते ?

[Question ID = 17245][Question Description = B.SC.M.SC.AYBU_Q_016]

1. शतृ

[Option ID = 134834]

2. ण्यत्

[Option ID = 134835]

3. अनीयर्

[Option ID = 134836]

4. तव्यत्

[Option ID = 134837]

17) भुञ्जानः इत्यत्र कः प्रत्ययः ?

[Question ID = 17246][Question Description = B.SC.M.SC.AYBU_Q_017]

1. शतृ

[Option ID = 134838]

2. शानच्

[Option ID = 134839]

3. मतुप्

[Option ID = 134840]

4. घञ्

[Option ID = 134841]

18) समुचितं मेलनं विधेयम् ?

(A) यजमानः

(1) शतृ

(B) स्रष्टुम्

(2) क्त्वा

(C) पश्यन्

(3) शानच्

(D) पठित्वा

(4) तुमुन्

[Question ID = 17247][Question Description = B.SC.M.SC.AYBU_Q_018]

1. A-4, B-1, C-3, D-2
[Option ID = 134842]
2. A-1, B-3, C-2, D-4
[Option ID = 134843]
3. A-3, B-4, C-1, D-2
[Option ID = 134844]
4. A-3, B-4, C-2, D-1
[Option ID = 134845]

19) स्था + तुमुन् इत्यनेन निष्पन्नं पदं वर्तते –

[Question ID = 17248][Question Description = B.SC.M.SC.AYBU_Q_019]

1. स्थातुम्
[Option ID = 134846]
2. स्थितुम्
[Option ID = 134847]
3. स्थगितुम्
[Option ID = 134848]
4. स्थातुमुन्
[Option ID = 134849]

20) पाठः इति पदम् अधोलिखितेषु केन निष्पद्यते ?

[Question ID = 17249][Question Description = B.SC.M.SC.AYBU_Q_020]

1. पद् + नङ्
[Option ID = 134850]
2. पद् + घञ्
[Option ID = 134851]
3. पद् + ण्यत्
[Option ID = 134852]
4. पद् + ल्युट्
[Option ID = 134853]

21) कारकः इति पदम् अधोलिखितेषु केन निष्पद्यते ?

[Question ID = 17130][Question Description = B.SC.M.SC.AYBU_Q_021]

1. कृ + ण्वुल्
[Option ID = 134454]
2. कृ + घञ्
[Option ID = 134455]
3. कृ + शानच्
[Option ID = 134456]
4. क्री + ण्वुल्
[Option ID = 134457]

22) धृतिः इत्यत्र कः प्रत्ययः ?

[Question ID = 17131][Question Description = B.SC.M.SC.AYBU_Q_022]

1. णिनिः
[Option ID = 134458]
2. अप्
[Option ID = 134459]
3. क्तिन्
[Option ID = 134460]
4. ल्युट्
[Option ID = 134461]

23) पठ् धातोः लङ्लकारस्य प्रथमपुरुषस्य बहुवचनस्य रूपं वर्तते ?

[Question ID = 17132][Question Description = B.SC.M.SC.AYBU_Q_023]

1. अपठन्

[Option ID = 134462]

2. अपठतम्

[Option ID = 134463]

3. अपठानि

[Option ID = 134464]

4. अपठम्

[Option ID = 134465]

24) क्रीडेत् इति धातुरूपं वर्तते –

[Question ID = 17133][Question Description = B.SC.M.SC.AYBU_Q_024]

1. लोट्लकारस्य

[Option ID = 134466]

2. विधिलिङ्लकारस्य

[Option ID = 134467]

3. लृट् लकारस्य

[Option ID = 134468]

4. लङ्लकारस्य

[Option ID = 134469]

25) समुचितं मेलनं विधेयम् ?

(A) दास्यति

(1) लट्लकारः

(B) गर्जति

(2) लोट्लकारः

(C) भवतु

(3) लङ्लकारः

(D) अहसत्

(4) लृट्लकारः

[Question ID = 17134][Question Description = B.SC.M.SC.AYBU_Q_025]

1. A-4, B-1, C-3, D-2

[Option ID = 134470]

2. A-1, B-3, C-2, D-4

[Option ID = 134471]

3. A-4, B-1, C-2, D-3

[Option ID = 134472]

4. A-3, B-4, C-2, D-1

[Option ID = 134473]

26) 'भूयात्' इति धातुरूपं वर्तते –

[Question ID = 17135][Question Description = B.SC.M.SC.AYBU_Q_026]

1. आशीर्लिङ्लकारस्य

[Option ID = 134474]

2. विधिलिङ्लकारस्य

[Option ID = 134475]

3. लृट्लकारस्य

[Option ID = 134476]

4. लोट्लकारस्य

[Option ID = 134477]

27) 'युष्मद्' शब्दस्य तृतीयाविभक्तेः एकवचनस्य रूपं वर्तते –

[Question ID = 17136][Question Description = B.SC.M.SC.AYBU_Q_027]

1. त्वत्

[Option ID = 134478]

2. त्वया

[Option ID = 134479]

3. तुभ्यम्

[Option ID = 134480]

4. तव

[Option ID = 134481]

28) 'सरितः' इत्यत्र विभक्तिः वचनं च वर्तते –

[Question ID = 17137][Question Description = B.SC.M.SC.AYBU_Q_028]

1. तृतीया बहुवचनम्

[Option ID = 134482]

2. सप्तमी एकवचनम्

[Option ID = 134483]

3. पञ्चमी एकवचनम्

[Option ID = 134484]

4. प्रथमा द्विवचनम्

[Option ID = 134485]

29) 'नदी' शब्दस्य चतुर्थीविभक्तेः एकवचनस्य रूपं वर्तते –

[Question ID = 17138][Question Description = B.SC.M.SC.AYBU_Q_029]

1. नद्याः

[Option ID = 134486]

2. नद्यै

[Option ID = 134487]

3. नदीम्

[Option ID = 134488]

4. नद्याम्

[Option ID = 134489]

30) 'फल' शब्दस्य पञ्चमीविभक्तेः बहुवचनस्य रूपं वर्तते –

[Question ID = 17139][Question Description = B.SC.M.SC.AYBU_Q_030]

1. फलस्य

[Option ID = 134490]

2. फलात्

[Option ID = 134491]

3. फलेभ्यः

[Option ID = 134492]

4. फलेन

[Option ID = 134493]

31) 'तस्मै' इत्यत्र का विभक्तिः –

[Question ID = 17140][Question Description = B.SC.M.SC.AYBU_Q_031]

1. पञ्चमी

[Option ID = 134494]

2. चतुर्थी

[Option ID = 134495]

3. तृतीया

[Option ID = 134496]

4. सप्तमी

[Option ID = 134497]

32) 'देवदत्तः फलं खादति' इति वाक्यस्य कर्मवाच्ये परिवर्तितं रूपं विद्यते –

[Question ID = 17141][Question Description = B.SC.M.SC.AYBU_Q_032]

1. देवदत्तेन फलं खाद्यते
[Option ID = 134498]
2. देवदत्तेन फलानि खाद्यते
[Option ID = 134499]
3. देवदत्तेन फलानि खाद्यन्ते
[Option ID = 134500]
4. देवदत्तेन फलं खाद्यन्ते
[Option ID = 134501]

33) 'स हसति' इति वाक्यस्य भाववाच्ये परिवर्तितं रूपं विद्यते –

[Question ID = 17142][Question Description = B.SC.M.SC.AYBU_Q_033]

1. तैः हस्यते
[Option ID = 134502]
2. तेन हस्यन्ते
[Option ID = 134503]
3. तेन हस्यते
[Option ID = 134504]
4. तेन हसति
[Option ID = 134505]

34) अधोलिखितेषु शुद्धं वाक्यं चिनुत–

[Question ID = 17143][Question Description = B.SC.M.SC.AYBU_Q_034]

1. वृक्षेण पतति
[Option ID = 134506]
2. वृक्षं पतति
[Option ID = 134507]
3. वृक्षात् पतति
[Option ID = 134508]
4. वृक्षाणां पतति
[Option ID = 134509]

35) निम्नलिखितेषु शुद्धं वाक्यं वर्तते –

[Question ID = 17144][Question Description = B.SC.M.SC.AYBU_Q_035]

1. कटेन उपविशति
[Option ID = 134510]
2. कटे उपविशति
[Option ID = 134511]
3. कटस्य उपविशति
[Option ID = 134512]
4. कटानामुपविशति
[Option ID = 134513]

36) निम्नलिखितेषु शुद्धं वाक्यं वर्तते –

[Question ID = 17145][Question Description = B.SC.M.SC.AYBU_Q_036]

1. गृहं बहिः तडागमस्ति
[Option ID = 134514]
2. गृहस्य बहिः तडागेऽस्ति
[Option ID = 134515]
3. गृहाद् बहिः तडागोऽस्ति
[Option ID = 134516]
4. गृहाद् बहिः तडागमस्ति

37) निम्नलिखितेषु शुद्धं वाक्यं वर्तते -

[Question ID = 17146][Question Description = B.SC.M.SC.AYBU_Q_037]

1. सः दूरेण मृगं पश्यति

[Option ID = 134518]

2. सः दूराय मृगं पश्यति

[Option ID = 134519]

3. सः दूरात् मृगं पश्यति

[Option ID = 134520]

4. सः दूरे मृगं पश्यति

[Option ID = 134521]

38) प्रस्तुतगद्यांशाधारेण अधोलिखितानां प्रश्नानां समीचीनमुत्तरं चिनोतु-

बुद्धस्य मतानुसारं चत्वारि आर्यसत्यानि भवन्ति । तानि यथा दुःखमस्ति, दुःखस्य कारणमस्ति, दुःखस्य अन्तवत्त्वमस्ति, दुःखदूरीकर्तुमुपायः अस्ति इति भविष्यन्ति । दुःखमस्ति इत्यमुं सत्यं सर्वे प्राणिनः अनुभवन्ति अभ्युपगच्छन्ति च । सूक्ष्मदृष्ट्या बुद्धस्य अयमनुभवः आगतः दुःखं केवलविशेषावस्थासु एव न भवति परन्तु संसारस्य सर्वेषां जीवानां सर्वास्वपि अवस्थासु विद्यमानत्वेन प्रतिभासते । यद्वस्तु अथवा यः अनुभवः सुखत्वेन तिष्ठति तदेव वास्तवदृष्ट्या दुःखात्मकं भवति इति । अस्मिन् संसारे भौतिकानि अथवा आध्यात्मिकानि यानि वस्तूनि इमानि सर्वाणि कारणादेव उत्पन्नानि । कारणं विना किमपि वस्तु न उत्पद्यते । अत एव वस्तुनः अनित्यत्वमायातम् ।

आर्यसत्यानां कति संख्या ?

[Question ID = 17147][Question Description = B.SC.M.SC.AYBU_Q_038]

1. चत्वारि

[Option ID = 134522]

2. पञ्च

[Option ID = 134523]

3. षट्

[Option ID = 134524]

4. सप्त

[Option ID = 134525]

39) प्रस्तुतगद्यांशाधारेण अधोलिखितानां प्रश्नानां समीचीनमुत्तरं चिनोतु-

बुद्धस्य मतानुसारं चत्वारि आर्यसत्यानि भवन्ति । तानि यथा दुःखमस्ति, दुःखस्य कारणमस्ति, दुःखस्य अन्तवत्त्वमस्ति, दुःखदूरीकर्तुमुपायः अस्ति इति भविष्यन्ति । दुःखमस्ति इत्यमुं सत्यं सर्वे प्राणिनः अनुभवन्ति अभ्युपगच्छन्ति च । सूक्ष्मदृष्ट्या बुद्धस्य अयमनुभवः आगतः दुःखं केवलविशेषावस्थासु एव न भवति परन्तु संसारस्य सर्वेषां जीवानां सर्वास्वपि अवस्थासु विद्यमानत्वेन प्रतिभासते । यद्वस्तु अथवा यः अनुभवः सुखत्वेन तिष्ठति तदेव वास्तवदृष्ट्या दुःखात्मकं भवति इति । अस्मिन् संसारे भौतिकानि अथवा आध्यात्मिकानि यानि वस्तूनि इमानि सर्वाणि कारणादेव उत्पन्नानि । कारणं विना किमपि वस्तु न उत्पद्यते । अत एव वस्तुनः अनित्यत्वमायातम् ।

सर्वे प्राणिनः किमनुभवन्ति -

[Question ID = 17148][Question Description = B.SC.M.SC.AYBU_Q_039]

1. सर्वत्र सुखमस्ति

[Option ID = 134526]

2. कुत्रापि दुःखं नास्ति

[Option ID = 134527]

3. दुःखमस्ति

[Option ID = 134528]

4. दुःखं सुखमस्ति

[Option ID = 134529]

40) प्रस्तुतगद्यांशाधारेण अधोलिखितानां प्रश्नानां समीचीनमुत्तरं चिनोतु—

बुद्धस्य मतानुसारं चत्वारि आर्यसत्यानि भवन्ति । तानि यथा दुःखमस्ति, दुःखस्य कारणमस्ति, दुःखस्य अन्तवत्त्वमस्ति, दुःखदूरीकर्तुमुपायः अस्ति इति भविष्यन्ति । दुःखमस्ति इत्यमुं सत्यं सर्वे प्राणिनः अनुभवन्ति अभ्युपगच्छन्ति च । सूक्ष्मदृष्ट्या बुद्धस्य अयमनुभवः आगतः दुःखं केवलविशेषावस्थासु एव न भवति परन्तु संसारस्य सर्वेषां जीवानां सर्वास्वपि अवस्थासु विद्यमानत्वेन प्रतिभासते । यद्वस्तु अथवा यः अनुभवः सुखत्वेन तिष्ठति तदेव वास्तवदृष्ट्या दुःखात्मकं भवति इति । अस्मिन् संसारे भौतिकानि अथवा आध्यात्मिकानि यानि वस्तूनि इमानि सर्वाणि कारणादेव उत्पन्नानि । कारणं विना किमपि वस्तु न उत्पद्यते । अत एव वस्तुनः अनित्यत्वमायातम् ।

..... विना किमपि वस्तु नोत्पद्यते।

[Question ID = 17149][Question Description = B.SC.M.SC.AYBU_Q_040]

1. कार्यम्

[Option ID = 134530]

2. कारणम्

[Option ID = 134531]

3. जीवनम्

[Option ID = 134532]

4. मरणम्

[Option ID = 134533]

41) Which Indian state has the highest number of orchid species as per Botanical Survey of India's first comprehensive census of Orchids?

[Question ID = 17150][Question Description = B.SC.M.SC.AYBU_Q_041]

1. Sikkim

[Option ID = 134534]

2. Andhra Pradesh

[Option ID = 134535]

3. Tripura

[Option ID = 134536]

4. Arunachal Pradesh

[Option ID = 134537]

42) Elephants sometimes use infrasound in the 5 - 20 Hz range to communicate, rather than sounds in the human audible range of 20 – 20,000 Hz. This is probably because

[Question ID = 17151][Question Description = B.SC.M.SC.AYBU_Q_042]

1. The large elephant ear cannot detect high frequencies

[Option ID = 134538]

2. There is too much competing sound in the 20 – 20,000 Hz range

[Option ID = 134539]

3. This keeps elephant herds hidden from predators

[Option ID = 134540]

4. Infrasound has a longer distance range than higher frequency sound

[Option ID = 134541]

43) The dog population in JNU increases at 25% per year while that in DU at 50% per year. If their present population at JNU and DU are equal, the ratio of number of dogs in DU to that in JNU after 2 years will be

[Question ID = 17152][Question Description = B.SC.M.SC.AYBU_Q_043]

1. **1.44**

[Option ID = 134542]

2. **1.72**

[Option ID = 134543]

3. **1.90**

[Option ID = 134544]

4. **1.25**

[Option ID = 134545]

44) In the IPL 2020 round robin league, each team played exactly two matches with every other team. If the total number of the matches in the league were 90 then what is number of teams participated?

[Question ID = 17153][Question Description = B.SC.M.SC.AYBU_Q_044]

1. **12**

[Option ID = 134546]

2. **11**

[Option ID = 134547]

3. **10**

[Option ID = 134548]

4. **9**

[Option ID = 134549]

45) As you increase the n (number of measurements) in an experiment, which quantity do you expect to decrease?

[Question ID = 17154][Question Description = B.SC.M.SC.AYBU_Q_045]

1. **mean**

[Option ID = 134550]

2. **standard deviation**

[Option ID = 134551]

3. **standard error of the mean**

[Option ID = 134552]

4. **both standard deviation and standard error of the mean**

[Option ID = 134553]

46) What aspect of a population does the Standard Deviation describe?

[Question ID = 17155][Question Description = B.SC.M.SC.AYBU_Q_046]

1. **Its variability**

[Option ID = 134554]

2. **Its average**

[Option ID = 134555]

3. **Its central tendency**

[Option ID = 134556]

4. **Its skewness**

[Option ID = 134557]

47) The angle made by the minute hand of a clock while moving from 4.45 pm to 6.15 pm is

[Question ID = 17156][Question Description = B.SC.M.SC.AYBU_Q_047]

1. **540 degrees**

[Option ID = 134558]

2. **470 degrees**

[Option ID = 134559]

3. **180 degrees**

[Option ID = 134560]

4. **360 degrees**

[Option ID = 134561]

48) Match organisms with their taxonomic category of Genus

List I

A. Human

B. Rice

C. Mango

D. Wheat

List II

I. Triticum

II. Mangifera

III. Homo

IV. Oryza

Choose the correct answer from the options given below:

[Question ID = 17157][Question Description = B.SC.M.SC.AYBU_Q_048]

1. **A-III, B-IV, C-II, D-I**

[Option ID = 134562]

2. **A-IV, B-III, C-II, D-I**

[Option ID = 134563]

3. **A-III, B-I, C-II, D-IV**

[Option ID = 134564]

4. **A-I, B-IV, C-II, D-III**

[Option ID = 134565]

49) If CUP is coded as 4.0, then KITE will be

[Question ID = 17158][Question Description = B.SC.M.SC.AYBU_Q_049]

1. **1.0**

[Option ID = 134566]

2. **2.5**

[Option ID = 134567]

3. **3.5**

[Option ID = 134568]

4. **4.5**

[Option ID = 134569]

50) If the first and the last digits of each of the numbers are interchanged, then which number will become the greatest?

[Question ID = 17159][Question Description = B.SC.M.SC.AYBU_Q_050]

1. **216**

[Option ID = 134570]

2. **343**

[Option ID = 134571]

3. **512**

[Option ID = 134572]

4. **108**

[Option ID = 134573]

51) There are 10 students in a class, with 3 girls and 7 boys. Sunita ranks third in the class and Shilpa ranks tenth. Sumit ranks seventh among the boys in the class. No two students hold the same rank in the class. Suman is three ranks above Sumit. What is Suman's rank in the class?

[Question ID = 17160][Question Description = B.SC.M.SC.AYBU_Q_051]

1. 1st rank

[Option ID = 134574]

2. 2nd rank

[Option ID = 134575]

3. 6th rank

[Option ID = 134576]

4. 8th rank

[Option ID = 134577]

52) The question below is followed by two statements labelled I and II. You have to decide whether the data provided in the statements is sufficient to answer the question. Read both the statements and choose the correct alternative.

In how many days will five women complete a given work?

(A) 2 women, 5 boys and 3 men together can do the same work in 6 days

(B) 8 women can do the same work in 12 days

[Question ID = 17161][Question Description = B.SC.M.SC.AYBU_Q_052]

1. Statement A alone is sufficient to answer the question, while statement B alone is not sufficient to answer the question.

[Option ID = 134578]

2. Statement B alone is sufficient to answer the question, while statement A alone is not sufficient to answer the question.

[Option ID = 134579]

3. Statement A alone or statement B alone is sufficient to answer the question.

[Option ID = 134580]

4. Both statements A and B are not sufficient to answer the question.

[Option ID = 134581]

53) A hemisphere and a cone have the same base and volume. Which has the greater surface area?

[Question ID = 17162][Question Description = B.SC.M.SC.AYBU_Q_053]

1. The sphere

[Option ID = 134582]

2. The cone

[Option ID = 134583]

3. Both have equal surface areas

[Option ID = 134584]

4. It cannot be determined from the given information

[Option ID = 134585]

54) Majority of Delhi's population has low circulatory Vitamin D levels. It is most likely due to

[Question ID = 17163][Question Description = B.SC.M.SC.AYBU_Q_054]

1. Genetic predisposition

[Option ID = 134586]

2. Lack of exercise

[Option ID = 134587]

3. Air pollution

[Option ID = 134588]

4. **Water pollution**

[Option ID = 134589]

55) Two sides of an isosceles triangle measure 3 cm and 7 cm. Which of the following is the measure of the third side?

[Question ID = 17164][Question Description = B.SC.M.SC.AYBU_Q_055]

1. **3 cm**

[Option ID = 134590]

2. **5 cm**

[Option ID = 134591]

3. **7 cm**

[Option ID = 134592]

4. **9 cm**

[Option ID = 134593]

56) The Post office is located to the east of the School, while my Home is located to the south of the School. The Market is located north of the Post office. If the distance of the Market from the Post office is equal to the distance of my Home from the School, in which direction is the market with reference to my School.

[Question ID = 18383][Question Description = N_B.SC.M.SC.AYBU_Q_056]

1. North

[Option ID = 140380]

2. East

[Option ID = 140381]

3. Northeast

[Option ID = 140382]

4. Northwest

[Option ID = 140383]

57) Five people P, Q, X, Y, Z are related to each other. P is the mother of X, who is the wife of Z. Y is the brother of P and Q is the husband of P.

How is P related to Z?

[Question ID = 17166][Question Description = B.SC.M.SC.AYBU_Q_057]

1. **Mother**

[Option ID = 134598]

2. **Aunt**

[Option ID = 134599]

3. **Sister**

[Option ID = 134600]

4. **Mother-in-law**

[Option ID = 134601]

58) One of the major scientific discoveries by Prof. G. N. Ramachandran was

[Question ID = 21452][Question Description = N_B.SC.M.SC.AYBU_Q_058]

1. *in vivo* fertilization

[Option ID = 140888]

2. Structure of Collagen

[Option ID = 140889]

3. Black hole

[Option ID = 140890]

4. Quantum model of hydrogen atom

[Option ID = 140891]

59) Given below are two statements:

Statement I : When monochromatic light passes from air into water its frequency decreases

Statement II : When monochromatic light passes from air into

water its wavelength decreases

In the light of the above statements, choose the **Correct** answer from the options given below

[Question ID = 17168][Question Description = B.SC.M.SC.AYBU_Q_059]

1. Both Statement I and Statement II are true

[Option ID = 134606]

2. Both Statement I and Statement II are false

[Option ID = 134607]

3. Statement I is correct but Statement II is false

[Option ID = 134608]

4. Statement I is incorrect but Statement II is true

[Option ID = 134609]

- 60) Given below are two statements:

Statement I : Troposphere extends above the Earth's equator at an altitude of 10 km – 12 km

Statement II : Stratosphere exists above the earth's surface at an altitude of 60 km – 100 km

In the light of the above statements, choose the **Correct** answer from the options given below

[Question ID = 17169][Question Description = B.SC.M.SC.AYBU_Q_060]

1. Both Statement I and Statement II are true

[Option ID = 134610]

2. Both Statement I and Statement II are false

[Option ID = 134611]

3. Statement I is correct but Statement II is false

[Option ID = 134612]

4. Statement I is incorrect but Statement II is true

[Option ID = 134613]

- 61) At STP, which of the following will have highest number of molecules?

[Question ID = 17170][Question Description = B.SC.M.SC.AYBU_Q_061]

1. 22 grams of carbon dioxide

[Option ID = 134614]

2. 11.2 litres of oxygen

[Option ID = 134615]

3. 0.8 moles of methane

[Option ID = 134616]

4. 7 grams of nitrogen

[Option ID = 134617]

- 62) Match List I with List II

List I	List II
- J C Bose - S N Bose - Vikram Sarabhai - Homi Jahagir Bhabha	- Boson - Nuclear technology - Radio transmission - Space technology

Choose the **correct** answer from the options given below:

[Question ID = 18384][Question Description = N_B.SC.M.SC.AYBU_Q_062]

1. A-III, B-I, C-IV, D-II

[Option ID = 140384]

2. A-I, B-IV, C-III, D-II

[Option ID = 140385]

3. A-I, B-II, C-IV, D-III

[Option ID = 140386]

4. A-IV, B-I, C-III, D-II

[Option ID = 140387]

63) During ice skating, the blades of the ice skater's shoes exert pressure on the ice. Ice skaters can efficiently skater because

[Question ID = 21448][Question Description = N_B.SC.M.SC.AYBU_Q_063]

1. ice gets converted to water as the pressure exerted on it increases

[Option ID = 140872]

2. ice gets converted to water as the pressure on it decreases

[Option ID = 140873]

3. the density of the ice in contact with the blades decreases

[Option ID = 140874]

4. blades do not penetrate into ice

[Option ID = 140875]

64) Match List I with List II

List I

- A. Protein
- B. RNA
- C. DNA
- D. Lipids

List II

- I. Ribose
- II. Fatty acids
- III. Deoxyribose
- IV. Amino acids

Choose the correct answer from the options given below:

[Question ID = 17173][Question Description = B.SC.M.SC.AYBU_Q_064]

1. A-II, B-IV, C-III, D-I

[Option ID = 134626]

2. A-III, B-IV, C-I, D-II

[Option ID = 134627]

3. A-IV, B-II, C-I, D-III

[Option ID = 134628]

4. A-IV, B-I, C-III, D-II

[Option ID = 134629]

65) Match List I with List II

List I

- A. Natural resources
- B. Ileum
- C. Pancreas
- D. Penicillin

List II

- I. Small intestine
- II. Lipase
- III. Antibiotic
- IV. Fossil Fuel

Choose the correct answer from the options given below:

[Question ID = 17174][Question Description = B.SC.M.SC.AYBU_Q_065]

1. A-IV, B-I, C-II, D-III

[Option ID = 134630]

2. A-III, B-IV, C-I, D-II

[Option ID = 134631]

3. A-II, B-III, C-IV, D-II

[Option ID = 134632]

4. A-I, B-II, C-III, D-IV

[Option ID = 134633]

66) Given below are two statements:

Statement I : Typhoid is caused by a certain bacteria

Statement II : Common cold is caused by a virus

In the light of the above statements, choose the **Correct** answer from the options given below

[Question ID = 17175][Question Description = B.SC.M.SC.AYBU_Q_066]

1. Both Statement I and Statement II are true

[Option ID = 134634]

2. Both Statement I and Statement II are false

[Option ID = 134635]

3. Statement I is correct but Statement II is false

[Option ID = 134636]

4. Statement I is incorrect but Statement II is true

[Option ID = 134637]

- 67) Given below are two statements:

Statement I : Parenchyma cells are long and narrow with no intercellular space

Statement II : Collenchyma cells are thick at the corners with very little intercellular space

In the light of the above statements, choose the **Correct** answer from the options given below

[Question ID = 17176][Question Description = B.SC.M.SC.AYBU_Q_067]

1. Both Statement I and Statement II are true

[Option ID = 134638]

2. Both Statement I and Statement II are false

[Option ID = 134639]

3. Statement I is correct but Statement II is false

[Option ID = 134640]

4. Statement I is incorrect but Statement II is true

[Option ID = 134641]

- 68) Given below are two statements:

Statement I : Mitosis results in equal distribution of chromosomes

Statement II : Meiosis results in reduction in the number of chromosomes

In the light of the above statements, choose the **Correct** answer from the options given below

[Question ID = 17177][Question Description = B.SC.M.SC.AYBU_Q_068]

1. Both Statement I and Statement II are true

[Option ID = 134642]

2. Both Statement I and Statement II are false

[Option ID = 134643]

3. Statement I is correct but Statement II is false

[Option ID = 134644]

4. Statement I is incorrect but Statement II is true

[Option ID = 134645]

- 69) Which of following diseases are caused by bacteria?

A. Dengue

B. Tuberculosis

C. Cholera

D. Hepatitis

E. Plague

Choose the correct answer from the options given below:

[Question ID = 17178][Question Description = B.SC.M.SC.AYBU_Q_069]

1. **B, C and E**

[Option ID = 134646]

2. **A, C and E**

[Option ID = 134647]

3. **Only C**

[Option ID = 134648]

4. **B, C, D and E**

[Option ID = 134649]

70) Among the following events in the history of life which is the correct chronological order?

A. prokaryotic cell

B. eukaryotic cell

C. natural selection

D. organic molecules

E. self-replicating molecules

Choose the correct answer from the options given below:

[Question ID = 17179][Question Description = B.SC.M.SC.AYBU_Q_070]

1. **(D), (E), (C), (A), (B)**

[Option ID = 134650]

2. **(D), (E), (A), (B), (C)**

[Option ID = 134651]

3. **(E), (D), (A), (C), (B)**

[Option ID = 134652]

4. **(D), (E), (A), (C), (B)**

[Option ID = 134653]

71) A male human patient presents the symptoms of gynaecomastia, tall body, coarse voice and an extra X chromosome. This is an example of

[Question ID = 17180][Question Description = B.SC.M.SC.AYBU_Q_071]

1. **Down Syndrome**

[Option ID = 134654]

2. **Turner Syndrome**

[Option ID = 134655]

3. **Klinefelter syndrome**

[Option ID = 134656]

4. **Cri-du-chat syndrome**

[Option ID = 134657]

72) A significant proportion of students at SSIS, JNU seem to have descended from Charak. This information was inferred from:

[Question ID = 17181][Question Description = B.SC.M.SC.AYBU_Q_072]

1. **Single Nucleotide Polymorphism**

[Option ID = 134658]

2. **Y-chromosome analysis**

[Option ID = 134659]

3. **Ancient DNA**

[Option ID = 134660]

4. **Mitochondrial DNA**

[Option ID = 134661]

73) The maximum number of hydrogen bonds that can be formed by a water molecules is

[Question ID = 17182][Question Description = B.SC.M.SC.AYBU_Q_073]

1. **3**

[Option ID = 134662]

2. **4**

[Option ID = 134663]

3. **5**

[Option ID = 134664]

4. **6**

[Option ID = 134665]

74) The steam engine is based on the

[Question ID = 17183][Question Description = B.SC.M.SC.AYBU_Q_074]

1. **Laws of thermodynamics**

[Option ID = 134666]

2. **Controlled nuclear fission**

[Option ID = 134667]

3. **Electromagnetic waves**

[Option ID = 134668]

4. **Bernoulli's principle in fluid dynamics**

[Option ID = 134669]

75) When viewed in sunlight, flower has red petals and a green stalk. You pluck the flower and take it to a room illuminated with a green lamp. What will be the colour of flower now?

[Question ID = 21449][Question Description = N_B.SC.M.SC.AYBU_Q_075]

1. Black petals and a green stalk

[Option ID = 140876]

2. Black petals and a black stalk

[Option ID = 140877]

3. Red petals and a black stalk

[Option ID = 140878]

4. Red petals and a green stalk

[Option ID = 140879]

76) A wire has resistance of 12 ohms. It is bent and its two ends are connected to form a circle. The effective resistance between the two points of any diameter of the circle is

[Question ID = 17185][Question Description = B.SC.M.SC.AYBU_Q_076]

1. **3 Ohms**

[Option ID = 134674]

2. **6 Ohms**

[Option ID = 134675]

3. **12 Ohms**

[Option ID = 134676]

4. **24 Ohms**

[Option ID = 134677]

77) Covishield vaccine produced by Serum Institute of India against Covid is what type of vaccine?

[Question ID = 17186][Question Description = B.SC.M.SC.AYBU_Q_077]

1. **mRNA vaccine**

[Option ID = 134678]

2. **Protein sub-unit**

[Option ID = 134679]

3. **Inactivated virus**

[Option ID = 134680]

4. **Adeno associated vector vaccine**

[Option ID = 134681]

78) **Biodiesel mainly consists of**

[Question ID = 17187][Question Description = B.SC.M.SC.AYBU_Q_078]

1. **Fatty acid methyl esters**

[Option ID = 134682]

2. **Bioethanol**

[Option ID = 134683]

3. **Polyunsaturated fatty acids**

[Option ID = 134684]

4. **Triglycerides**

[Option ID = 134685]

79) **The study of heritable characters through microscopic observation of chromosomes is called**

[Question ID = 17188][Question Description = B.SC.M.SC.AYBU_Q_079]

1. **Genetics**

[Option ID = 134686]

2. **Molecular genetics**

[Option ID = 134687]

3. **Cytogenetics**

[Option ID = 134688]

4. **Pedigree**

[Option ID = 134689]

80) **Which of the following is a plant hormone ?**

[Question ID = 17189][Question Description = B.SC.M.SC.AYBU_Q_080]

1. **Thyroxin**

[Option ID = 134690]

2. **Adrenalin**

[Option ID = 134691]

3. **Insulin**

[Option ID = 134692]

4. **Gibberellins**

[Option ID = 134693]

81) **During meiosis, the stage at which crossing over between chromosomes occurs, is called**

[Question ID = 17190][Question Description = B.SC.M.SC.AYBU_Q_081]

1. **Diakinesis**

[Option ID = 134694]

2. **Leptotene**

[Option ID = 134695]

3. **Zygotene**

[Option ID = 134696]

4. **Pachytene**

[Option ID = 134697]

82) **In the stomach, the pH of the gastric juice is:**

[Question ID = 17191][Question Description = B.SC.M.SC.AYBU_Q_082]

1. **4.5**

[Option ID = 134698]

2. **3.3**
[Option ID = 134699]
3. **0.2**
[Option ID = 134700]
4. **1.8**
[Option ID = 134701]

83) Which of the following medicine that has come from a traditional knowledge for which Nobel prize was awarded?

[Question ID = 17192][Question Description = B.SC.M.SC.AYBU_Q_083]

1. **Artrmisinin**
[Option ID = 134702]
2. **Paracetamol**
[Option ID = 134703]
3. **Ivermectin**
[Option ID = 134704]
4. **Hydroxychloroquine**
[Option ID = 134705]

84) An acrocentric chromosome is the one where

[Question ID = 17193][Question Description = B.SC.M.SC.AYBU_Q_084]

1. **centromere is located in the middle of two arms of equal length**
[Option ID = 134706]
2. **centromere is located slightly away from the mid-point of the total chromosome length**
[Option ID = 134707]
3. **centromere is located very close to the end of the chromosome**
[Option ID = 134708]
4. **centromere is located at the farthest point of the chromosome with no short arm**
[Option ID = 134709]

85) Succus entericus is the name given to

[Question ID = 17194][Question Description = B.SC.M.SC.AYBU_Q_085]

1. **Junction between ileum and large intestine**
[Option ID = 134710]
2. **Intestinal juice**
[Option ID = 134711]
3. **Gut swelling**
[Option ID = 134712]
4. **Vermiform appendix**
[Option ID = 134713]

86) People with anemia are most likely to be comfortable in

[Question ID = 17195][Question Description = B.SC.M.SC.AYBU_Q_086]

1. **Tawang**
[Option ID = 134714]
2. **Leh**
[Option ID = 134715]
3. **Patna**
[Option ID = 134716]
4. **Gangotri**
[Option ID = 134717]

87) If the ratio of (A+G)/(T+C) in one strand of DNA is 0.60, what will be the value of same ratio in the complementary strand?

[Question ID = 21450][Question Description = N_B.SC.M.SC.AYBU_Q_087]

1. 0.30
[Option ID = 140880]
2. 0.60
[Option ID = 140881]
3. 1.20
[Option ID = 140882]
4. 1.67
[Option ID = 140883]

88) 100 litres of ultrapure water (pH 7.0) is added to 10 ml of 1 μ M aqueous solution of HCl. What will be final pH of the solution ?

[Question ID = 17197][Question Description = B.SC.M.SC.AYBU_Q_088]

1. Between 7 and 8
[Option ID = 134722]
2. Between 6.5 and 7
[Option ID = 134723]
3. Between 8 and 9
[Option ID = 134724]
4. 7.0
[Option ID = 134725]

89) Plants of which of the following families are well known as nitrogen fixers?

[Question ID = 21451][Question Description = N_B.SC.M.SC.AYBU_Q_089]

1. Anacardiaceae
[Option ID = 140884]
2. Fabaceae
[Option ID = 140885]
3. Ebenaceae
[Option ID = 140886]
4. Euphorbiaceae
[Option ID = 140887]

90) Who is considered as the father of Surgery?

[Question ID = 17199][Question Description = B.SC.M.SC.AYBU_Q_090]

1. Susrata
[Option ID = 134730]
2. Charak
[Option ID = 134731]
3. Hippocrates
[Option ID = 134732]
4. Herodotus
[Option ID = 134733]

91) A person drives a car 15 km towards North and then 20 km towards East. What is the displacement of the car from the starting point

[Question ID = 17200][Question Description = B.SC.M.SC.AYBU_Q_091]

1. 20 km
[Option ID = 134734]
2. 25 km
[Option ID = 134735]
3. 30 km
[Option ID = 134736]
4. 35 km
[Option ID = 134737]

92) The rate of doing work is called

[Question ID = 17201][Question Description = B.SC.M.SC.AYBU_Q_092]

1. **energy**

[Option ID = 134738]

2. **power**

[Option ID = 134739]

3. **motion**

[Option ID = 134740]

4. **time**

[Option ID = 134741]

93) If you move a body from the Earth to the moon, its mass will

[Question ID = 17202][Question Description = B.SC.M.SC.AYBU_Q_093]

1. **change by 1 % of its weight**

[Option ID = 134742]

2. **change by 6% of its weight**

[Option ID = 134743]

3. **change by 10% of its weight**

[Option ID = 134744]

4. **remain same, irrespective of its weight**

[Option ID = 134745]

94) The gravitational force with which the Earth attracts the moon

[Question ID = 17203][Question Description = B.SC.M.SC.AYBU_Q_094]

1. **is less than the force with which the moon attracts the Earth**

[Option ID = 134746]

2. **is equal to the force with which the moon attracts the Earth**

[Option ID = 134747]

3. **is greater than the force with which the moon attracts the Earth**

[Option ID = 134748]

4. **Varies with the phases of the moon**

[Option ID = 134749]

95) If the distance between the Sun and the Earth is doubled, the gravitational force between them will become

[Question ID = 17204][Question Description = B.SC.M.SC.AYBU_Q_095]

1. **double**

[Option ID = 134750]

2. **half**

[Option ID = 134751]

3. **four times**

[Option ID = 134752]

4. **One fourth**

[Option ID = 134753]

96) The chromosome number of a down syndrome is

[Question ID = 17205][Question Description = B.SC.M.SC.AYBU_Q_096]

1. **46**

[Option ID = 134754]

2. **45**

[Option ID = 134755]

3. **47**

[Option ID = 134756]

4. 48

[Option ID = 134757]

97) The voice of a human is different from that of a honey bee, because the two sounds

[Question ID = 17206][Question Description = B.SC.M.SC.AYBU_Q_097]

1. travel in different directions

[Option ID = 134758]

2. travel at different velocities

[Option ID = 134759]

3. have different pitches

[Option ID = 134760]

4. have different phases

[Option ID = 134761]

98) The lipids and proteins essential for the formation of cell membrane are synthesized in

[Question ID = 17207][Question Description = B.SC.M.SC.AYBU_Q_098]

1. golgi bodies

[Option ID = 134762]

2. mitochondria

[Option ID = 134763]

3. lysosomes

[Option ID = 134764]

4. endoplasmic reticulum

[Option ID = 134765]

99) Which of the following serves as storage site for water and waste material in a plant cell?

[Question ID = 17208][Question Description = B.SC.M.SC.AYBU_Q_099]

1. Vacuoles

[Option ID = 134766]

2. Lysosomes

[Option ID = 134767]

3. Liposomes

[Option ID = 134768]

4. Plastid

[Option ID = 134769]

100) Which of the following phases is best suited for counting the number of chromosomes ?

[Question ID = 17209][Question Description = B.SC.M.SC.AYBU_Q_100]

1. interphase

[Option ID = 134770]

2. prophase

[Option ID = 134771]

3. metaphase

[Option ID = 134772]

4. anaphase

[Option ID = 134773]

