A - SECTION - I ODIA (COMPULSORY)

ପ୍ରଦର ଅନୁଚ୍ଲେବଟି ପାଠ କରି ପ୍ରଶ୍ମ (ନଂ 1 ରୁ 5 ପର୍ଯ୍ୟବ) ଗୁଡ଼ିକର ଉତ୍ତର ବାଛ :

2000

୧୯୪୨ ଫେବ୍ରୁଆରୀରେ ଚୀନ୍ ଦେଶର ନେତା ମାର୍ଶାଲ୍ ଚିଆଙ୍ଗ ବାରଦିନିଆ ଗଞ୍ଚରେ ଭାରତ ଆସିଥାନ୍ତି । ଯୁଦ୍ଧ ବିଷୟରେ ଭାରତର ବଡ଼ ଲାଟଙ୍କ ସହିତ ଆଲୋଚନା କରିବା ତାଙ୍କର ଲକ୍ଷ୍ୟଥାଏ । ଏହି ଅବସରରେ ଗାନ୍ଧିଳୀ ଓ ଜବାହରଲାଲଙ୍କ ସହିତ ଭେଟିବାର ଆଗ୍ରହ ରଖି ସେ ଆସିଥାନ୍ତି । ବୁହିଁଙ୍କ ସହିତ ଚିଆଙ୍ଗଙ୍କର କଥାବାର୍ତ୍ତା ହେଲା । ଭାରତରୁ ତାଙ୍କର ବିଦାୟବାର୍ତ୍ତାରେ ମାର୍ଶାଲ୍ ଚିଆଙ୍ଗ କହିଗଲେ ଯେ ବ୍ରିଟିଶ୍ ସରକାର ଯଥାଶୀଘ୍ର ଭାରତକୁ ରାଳନୈତିକ କ୍ଷମତା ପ୍ରଦାନ କରବୁ । ତେବେ ଭାରତ ଜାପାନ୍ ବିରୁଦ୍ଧରେ ଶକ୍ତି ଖଟେଇ ଲଢ଼ିବ । ଜାପାନ୍ ଯୋଗୁ ଚୀନରେ ମଧ୍ୟ ଆତଙ୍କ ଖେଳି ଯାଇଥାଏ । ଏକଥା ଆମେରିକା ମଧ୍ୟ ବୃଝିଥାଏ ଓ ଇଂଲକ୍ତ ଉପରେ ଚାପ ପକାଇଥାଏ । ଦ୍ୱିତୀୟ ବିଶ୍ୱଯୁଦ୍ଧରେ ଆମେରିକା ଓ ରଷିଆ ଇଂଲ୍ଷ ପଟେ ରହି ଲଢ଼ୁଥାତି । ରଷିଆ ଓ ଜର୍ମାନ୍ ମଧ୍ୟରେ ସୁସ୍ମକ ଥିଲା । ବିଜୟ ଭଲ୍।ସରେ ମଇହୋଇ ହିଟ୍ଲର ରଷିଆ ଆ<mark>କ୍ରମଣ</mark> କରିବାରୁ ରଷିଆ ଇଂଲଶ୍ଚ ସହିତ ମିଶିଲା । କୁହାଯାଉଥାଏ, <mark>ଦ୍ୱିତୀ</mark>ୟ ମହାଯୁଦ୍ଧ ଫାସୀବାଦ ଓ ନାଜୀବାଦ ବିରୁଦ୍ଧରେ ଗଣତନ୍ତ ବାଦର ଯୁଦ୍ଧ । ଯଦି ଏପରିକଥା, ତେବେ ଯୁଦ୍ଧ ପରେ ବ୍ରିଟିଶ୍ ସରକାର ଭାରତକୁ ସ୍ୱେଚ୍ଛାରେ ସ୍ୱାଧୀନତା ପ୍ରଦାନ କରିବ ବୋଲି ଘୋଷଣା କରିବା ଭଚିତ୍ ହୁଅନ୍ତା । ଏହି ମର୍ମରେ କିଛି ଘୋ<mark>ଷଣା କ</mark>ରିବାକୁ ଆମେରିକାର ପ୍ରେସିଡ଼େଷ୍ ବୃଚ୍ଚଭେଲ୍ଟ୍ ଚର୍ଚ୍ଚିଲଙ୍କ ଉପରେ ଚାପ ପକାଇଥାତି । ବିଶେଷତଃ ଜାପାନ୍, ଇଂଲ୍ଷ୍ ବିରୁଦ୍ଧରେ ଯୁଦ୍ଧରେ ଯୋଗଦାନ କରିବା ପରେ ଭାରତର ସହଯୋଗ କର୍ରୀ ହୋଇପଡ଼ିଥାଏ । ପ୍ରେସିଡ଼େଷ୍ ଗୁକ୍ଭେଲଟ୍ କର୍ଷେଲ୍ ଲୁଇସ୍ ଳନ୍ସନ୍ଙ୍କୁ ତାଙ୍କର ଦୂତ ଭାବେ ଭାରତୀୟ ନେତାଙ୍କ ସହିତ କଥାବାର୍ଭ। କରିବା ପାଇଁ ପଠାଇଥାନ୍ତି । ଗୋଟିଏ ପରାଧୀନ ଦେଶକୁ ଏକ ସ୍ମତନ୍ତ ଦେଶ ସିଧାସଳଖ ଦୂତ ପଠାଇବା ଅସାଧାରଣ ପଦକ୍ଷେପ । ରୁକ୍ଭେଲଟଙ୍କ ମନୋଭାବ ବୁଝିବା ପାଇଁ ଏହି ଘଟଣାଟି ଯଥେଷ ।

- କ'ଣ ଘୋଷଣା କରିବା ପାଇଁ ରୁକ୍ଭେଲଟ୍ ଚଢିଲଙ୍କ ଉପରେ ଚାପ ପକାଉଥିଲେ ?
 - (A) ଭାରତୀୟ ମାନଙ୍କ ସହିତ ଯୁଦ୍ଧ ବିଷୟରେ ଆଲୋଚନା ପାଇଁ
 - (B) ଭାରତକୁ ସ୍ୱାଧୀନତା ପ୍ରଦାନ ସଂପର୍କୀୟ
 - (C) ଦ୍ୱିତୀୟ ବିଶ୍ୱଯୁଦ୍ଧରେ ଭାରତର ଯୋଗଦାନ ସମ୍ପର୍କରେ
 - (D) ଭାରତୀୟ ବନ୍ଦୀମାନଙ୍କୁ ମୁକ୍ତ କରିବାର

- ଦ୍ୱିତୀୟ ବିଶ୍ୱଯୁଦ୍ଧରେ ରଥିଆ ଇଂଲଷ ସହିତ କାହିଁକ ମିଶିଥିଲା ?
 - (A) ଇଂଲଶ ସହିତ ସୁସମ୍ପର୍କ ଥିବାରୁ
 - (B) ନାଳୀବାଦର ବିରୋଧ ଯୋଗୁ
 - (C) ହିଟ୍ଲର ରଷିଆ ଆକୁମଣ କରିବାରୁ
 - (D) ବୃଷିଆ ଜମାନୀକୁ ଘ୍ଣା କର୍ଥବାରୁ
- 3. ବିଦାୟ ବାର୍ଭାରେ ମାର୍ଶାଲ୍ ଚିଆଙ୍ ଭାରତକୁ ବ୍ରିଟିଶ୍ ସରକାର ରାଳନୈତିକ କ୍ଷମତା ପ୍ରଦାନ ସପକ୍ଷରେ କାହିଁକି କହିଥିଲେ ?
 - (A) ଏହାଦ୍ୱାରା ଭାରତ, ଜାପାନ ବିରୁଦ୍ଧରେ ପୂର୍ଣ୍ଣଶକ୍ତିରେ ଲଢ଼ି ପାରିବ
 - (B) ଭାରତୀୟ ନେତାମାନଙ୍କର ରାଚ୍ଚନୈତିକ ଦକ୍ଷତା ଥିବାର
 - (C) ଭାରତରେ ଗଣତାଶିକ ଶାସନର ପ୍ରତିଷା ପାଇଁ
 - (D) ଭାରତର ସ୍ୱାଧୀନତା ସଂଗ୍ରାମକୁ ସମର୍ଥନ କରିବା ପାଇଁ
- କେଉଁ ଘଟଣାରୁ ଭାରତ ପ୍ରତି ରୁକଭେଇଟଙ୍କ ମନୋଭାବ ବୃଝିହୁଏ ?
 - (A) ଚର୍ଚ୍ଚିଲଙ୍କ ଉପରେ ଚାପ ପକାଉଥିବା
 - (B) କୁଇସ୍ କନ୍ସନ୍ଙ୍କୁ ଦୃତ ଭାବେ ଭାରତୀୟ ନେତାଙ୍କ ସହିତ ଆଲୋଚନା ପାଇଁ ପଠାଇବା
 - (C) ଭାରତର ସ୍ୱାଧୀନତା ସଂଗ୍ରାମକୁ ସମର୍ଥନ ଦେବା
 - (D) ଭାରତୀୟ ସୈନିକମାନଙ୍କ ଦକ୍ଷତା ଭପରେ ଆହ୍ଲା ରଖିବା

OSSTET/P-I

[2]

(Continued)

SET - A

- 5. ଟୀନ୍ ଦେଶର ନେତା ମାର୍ଶାଲ୍ ତିଆଙ୍ଗ୍ କେଉଁ ଉଦେଶ୍ୟରେ ଭାରତ ଆସିଥିଲେ ?
 - (A) ପରିଭ୍ରମଣ
 - (B) ଭାରତୀୟ ନେତାଙ୍କୁ ରେଟିବା
 - (C) ବଡ଼ଲାଟଙ୍କ ସହିତ ଯୁଦ୍ଧ ବିଷୟରେ ଆଲୋଚନା
 - (D) ଗାନ୍ଧୀଙ୍କ ସହିତ ସାକ୍ଷାତ
- ୍ ନିମ୍ବୋକ ମଧ୍ୟରୁ କେଉଁଟି ତଦ୍ଧିତାନ୍ତ ଶହ ?
 - (A) ଗଦ୍ୟ
 - (B) ଶିଷ୍ୟ
 - (C) වෙන්4
 - (D) କୃତ୍ୟ
- <u>ଷ୍ୟକ୍</u> ପଘା ନାହିଁ । ରେଖାଙ୍କିତ ପଦଟି କେଉଁ ବିଇକ୍ତି ?
 - (A) ହୃତୀୟା
 - (B). ଚତୁର୍ଥୀ
 - (C) ପ୍ରଥମା
 - (D) ତୃତୀୟା
- 8. 'ସତୀର୍ଥ' ଏହା କେଉଁ ସମାସ ନିଷନ୍ନ ପଦ ?
 - (A) ବହୁବ୍ରୀହି
 - (B) କର୍ମଧାରୟ
 - (C) ତତ୍ପୁରୁଷ
 - (D) ହିଗୁ
- କେଉଁ ଶହରେ 'ଷଡ୍ବିଧ୍' ନିୟମର ବ୍ୟତିକୁମ ଘଟିନାହିଁ ?
 - (A) ବସନ୍ତ
 - (B) ବିସର୍ଗ
 - (C) ବିଷାର
 - (D) ଅନୁସରଣ

- 10. ଅଶୁଦି ନଥିବା ବାଳ୍ୟଟିକୁ ବିହାଅ :
 - (A) ରଥଯାତ୍ରାରେ ଜନତାମାନଙ୍କର ପ୍ରବଳ ଭିତ୍ ହୁଏ ।
 - (B) କୋଣାର୍କର ଜଳାପାଟବତା ମନମୁଷ୍ପକର ।
 - (C) ଅଲିମିକ୍ କ୍ରୀଡ଼ା ପ୍ରତିଯୋଗୀତାରେ ଭାରତୀୟ ଚଳ ଏଥର ଅଧିକ ପଦକ ପାଇଛରି ।
 - (D) ରୁବନେଶ୍ୱର ଓଡ଼ିଶାର ବୃହଲମ ନଗର ।
 - ମଧ୍ବାବୁ ଏଞ୍ଜୀୟ ପାଷ୍ କଲାବେଳକୁ କଲିକଡାକୁ ରେକପଥ ନଥିଲା । - ଏହା କେଉଁ ପ୍ରକାର ବାଳ୍ୟ ?
 - (A) ଚଟିକ
 - (B) ଯୌଗିକ
 - (C) ସରକ
 - (D) ମିଶ୍ର
 - 12. କେଉଁ ଶହଟି କୃତ୍ ପ୍ରତ୍ୟୟ 'ଅ' ଯୋଗରେ ଗଠିତ ?
 - (A) ହାଡ
 - (B) ଖ୍ୟାତ
 - (C) 10
 - (D) ଘାଡ
 - 13. ଶୂଦ ଶଦଟିକୁ ବାଛ :
 - (A) ସ୍ୱର୍ଗତଃ
 - (B) ମାମୁଁ
 - (C) ଓଡପ୍ରୋଡ
 - (D) ସାକ୍ଷୀଗୋପାଳ

OSSTET/P-I

[3]

(Turn over)

The state of

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- 14. ବିହ୍ ବିହ୍ ଚଳ ରହିଛି ଚାରୁ କୃଟିଳ ବାଳେ, ତୃଷାର ବୃଷିକି ହୋଇଛି ନବ ତମାଳ ଦଳେ । ଏଥିରେ କେଉଁ ଅଳଙ୍କାର ପ୍ରସ୍ତ ?
 - (A) ରୂପକ
 - (B) ଉପମା
 - (C) 649
 - (D) ଉତ୍ପେଶା
- 15. ଭାରତୀୟ ସୈନିକମାନଙ୍କର <u>ସାହସ</u> ଅତୁଳନୀୟ । ରେଖାଙ୍କିତ ଅଂଶଟି କେଉଁ ପଦ ?
 - (A) ବିଶେଷ୍ୟ
 - (B) ସର୍ବନାମ
 - (C) ବିଶେଷଣ
 - (D) ଅବ୍ୟୟ
- 16. ଶୋଭିବ ଉଚ୍ଚଳ ସହେ ସଦାଶୟା,

ସରେ ଯଥା ପଦୁ ପଦ୍ମେ ପଦ୍ମାଳୟା । - ଏଥିରେ କେଉଁ ଅଳଙ୍କାର ରହିଛି ?

- (A) ଉତ୍ପେଷା
- (B) ଯମକ
- (C) , ଉପମା
- (D) ଅନୁପ୍ରାସ

- 17. ଅକ୍ଷିର ପଛରେ ସମୟ ପଦଟି କ'ଣ ହେବ ?
 - (A) ପରୋକ
 - (B) ସମକ
 - (C) ପ୍ରତ୍ୟକ୍ଷ
 - (D) ବିପକ୍ଷ
- 18. 'ଯଡି ପଡ଼ିବା' ରୃଢ଼ିଟି କେଉଁ ଅର୍ଥରେ ପ୍ରଚଳିତ ?
 - (A) ମେଳଖାଇବା
 - (B) ପସନ୍ଦ କରିବା
 - (C) ବାରୟାର କହିବା
 - (D) ଅନ୍ୟହାତରେ ପଡ଼ିବା
- 19. ଖାଇବାର ପୂତ ଗଲା ମଥିରା ପୂରକୁ ରେଖାଙ୍କିତ ଅଂଶଟି କେଉଁ ପଦ ?
 - (A) କ୍ରିୟା
 - (B) ସର୍ବନାମ
 - (C) ବିଶେଷ୍ୟ
 - (D) ବିଶେଷଣ
- 20. 'ଛଇ ଦେଖାଇବା' ରୂଢ଼ିର ଅର୍ଥ କ'ଣ ?
 - (A) ବେଶଭୂଷା ହେବା
 - (B) ଉଙ୍ଗୀ ଦେଖାଇବା
 - (C) ପରିଷାର ପରିଚ୍ଛନ୍ତା
 - (D) ଛଳନା କରିବା

A - SECTION - II ENGLISH (COMPULSORY)

21.	This contract	expires	
	December 31st.	168	
	(A) on		

- (A) on
- (B) by
- (C) at
- (D) in

22.	He has spoken to the Headmaster.		
	The sentence can be written in the passive		
	voice as :		

- The Headmaster has been spoken. (A)
- The Headmaster had been spoken (B) to.
- (C) The Headmaster had been spoken.
- The Headmaster has been spoken (D) to.
- He ordered for a good deal of sacred books.

Rewrite the sentence correctly.

- (A) He ordered for a good number of sacred books.
- He ordered a good number of (B) sacred books.
- (C) He ordered a good deal of sacred books.
- (D) He ordered a good number of sacred book.

her examination all 24. She got right.

> Fill in the blank choosing a correct particle given below.

- (A) up
- (B) round
- (C) through
- (D) on

Neither the Headmaster nor the teachers 25. present at the meeting.

- was (A)
- (B) have
- (C) were
- (D) has

I reached the station after the train

- (A) has left
- had left (B)
- had been left (C)
- was leaving

27. The doctor said, "Do you have a headache now?"

The sentence can be written in indirect speech as:

- (A) The doctor asked the patient if he had a headache then.
- (B) The doctor asked the patient if he has a headache now.
- (C) The doctor asked the patient if he had a headache now.
- (D) The doctor asked the patient that he had a headache then.
- 28. He is a very intelligent boy.

Express the meaning of the sentence in an exclamatory sentence.

- (A) What an intelligent boy is he!
- (B) What an intelligent boy he is!
- (C) How intelligent boy he is!
- (D) How intelligent boy is he!
- 29. The word 'laughed' is pronounced as:
 - (A) /la:ft/
 - (B) /la:fd/
 - (C) /laft/
 - (D) /lafd/

- State the correct pronunciation of 'climb'.
 - (A) /klaim/
 - (B) /klim/
 - (C) /klimb/
 - (D) /kleim/

Read through the passage and answer the questions that follow choosing the correct alternatives.

Rain supplies most of the water that plants need, but unfortunately it does not always fall at the right time of the year or in sufficient quantities. Plants may stay alive if rain is scarce, but they will not yield such a good harvest of food. Thus, for centuries man has devised methods of supplementing natural supplies of water to his crops by means of irrigation. These methods vary according to the climate, the crops and the available water resources. In tropical and mediterranean countries, water is naturally brought to the crops by a network of surface ditches; this is known as surface irrigation. In surface irrigation water spreads over the surface and soaks into the ground.

Questions:

- 31. What has been devised for centuries?
 - (A) Methods of irrigation
 - (B) Methods to replace natural supplies of water
 - (C) Methods of supplementing natural supplies of water to the crops by means of irrigation
 - (D) Methods to supply water to plants in sufficient quantities

- 32. What is known as surface irrigation?
 - (A) Bringing water to the crops by a network of surface ditches
 - (B) A network of ditches in tropical countries
 - (C) A network of ditches in mediterranean countries
 - (D) Water soaking into the ground
- 33. ... but they will not yield.
 What does the word 'they' refer to?
 - (A) plants
 (B) the crops
 - (C) water resources
 - (D) these methods
- 34. What, according to the writer, is an unfortunate thing?
 - (A) Rain supplying enough water to the plants
 - (B) Rain not always falling at the right time of the year
 - (C) Rain falling in sufficient quantities
 - (D) Rain being scarce.
- 35. What is the synonym of 'scarce'?
 - (A) adequate
 - (B), abundant
 - (C) copious
 - (D) insufficient

Read through the poem and answer the questions that follow choosing the suitable alternatives given below.

She dwelt among the untrodden way Beside the springs of Dove;

A maid whom there were none to praise And very few to love.

A violet by a mossy stone Half-hidden from the eye!

- Fair as a star, when only one

Is shining in the sky.

She lived unknown, and few could know When Lucy ceased to be;

But she is in her grave, and, oh, The difference to me.

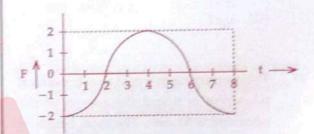
36. When Lucy ceased to be ...

The underlined words mean

- (A) disappeared from sight
- (B) died,
- (C) stopped working
- (D) left the place
- 37. By comparing Lucy with 'a violet by a mossy stone', the poet is drawing our attention to the ______ of Lucy.
 - (A) love
 - (B) beauty
 - (C) innocence
 - (D) dignity
- 38. What is the antonym of 'praise'?
 - (A) unpraise
 - (B) impraise
 - (C) exalt
 - (D) dispraise
- 39. Identify which of the following is false.
 - (A) Lucy lived close to Nature
 - (B) Lucy was praised by many
 - (C) Very few people loved Lucy
 - (D) Lucy lived unknown to many
- 40. What makes the poet utter the word 'oh'?
 - (A) His grief at the death of Lucy
 - (B) Others' unconcern about Lucy's death
 - (C), Others' not knowing her
 - (D) Others' not loving her

- 41. An object is thrown upward with a velocity v. If air drag is not neglected, what can be inferred about the time of ascent (t_d) and time of descent (t_d) for the motion of the object?
 - (A) t_a > t_d
 - (B) t_d > t_s
 - (C) $t_a = t_d$
 - (D) Retardation plays no role in the kinematics of the body
- 42. The width of the central maximum for a single slit diffraction is greatest for which color of light:
 - (A) Violet
 - (B) Blue
 - (C) Red
 - (D) Green
- 43. In Young's double slit experiment the maximum intensity observed is I₀. When one of the slits is closed, the intensity becomes:
 - (A) I₀/4
 - (B) I₀/3
 - (C) I₀/2
 - (D) I₀

44. A Force-time (F~t) graph for a linear motion is shown in the figure below. The segments shown are all circular. The linear momentum gained between 0 and 8 seconds is:



- (A) $-2\pi N S$
- (B) 4π N-S
- (C) $+6\pi N S$
- (D) Zero N-S
- 45. A dog of mass 'm' stands on one end of a wooden plank of length 'L' and mass 'M'.

 The plank is floating on water. If the dog walks from one end of the plank to the other end at a constant speed, then the resulting displacement of the plank will be:
 - (A) $\frac{ML}{m}$
 - (B) $\frac{mL}{M}$
 - (C) $\frac{mL}{M+m}$
 - (D) $\frac{ML}{M-m}$



- 46. The electric field strength at a distance 'r' from the centre of a charged sphere of radius R is E. If r > R, how much work will be done in bringing a test charge q₀ from infinity to that point?
 - (A) qoRE
 - (B) ½q0RE
 - (C) ½q0rE
 - (D) qorE
- 47. The magnifying power of an astronomical telescope is 8 and the length of the telescope is 54 cm. The focal length of the objective will be:
 - (A) 6 cm
 - (B) 48 cm
 - (C) 64 cm
 - (D) 8 cm
- 48. The frequency of a tuning fork A is 3% more than the frequency of a standard fork whereas the frequency of another tuning fork B is 3% less than the standard one. The forks A and B produce 6 beats per second. The frequency of standard fork will be:
 - (A) 100 Hz
 - (B) 106 Hz
 - (C) 103 Hz
 - (D) 112 Hz

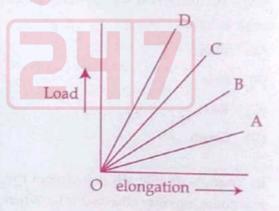
49. Two waves are represented by :

$$Y_1 = a \sin \left(\omega t + \frac{\pi}{6} \right)$$

Y₂=a cosωt

The resultant amplitude becomes:

- (A) a
- (B) √2 a
- (C) √3 a
- (D) 2 a
- 50. The load versus elongation graph for four wires of same material is shown below. The thinnest wire is represented by the line.



- (A) OD
- (B) OC
- (C) OB
- (D) OA

- 51. A man's near point is 0.5 m and far point is 3 m. Power of the spectacle lenses required for the person to see near and distant objects respectively are;
 - (A) -2 D and +3 D
 - (B) +2 D and -3 D
 - (C) +2 D and -0.33 D
 - (D) -2 D and +0.33 D
- 52. The ratio of radii of two planets P₁ and P₂ moving around the sun is 4. The mass of the planet P₁ is 32 times heavier than that of P₂. The ratio of escape velocities of P₁ to P₂ is:
 - (A) 8
 - (B) 2√2
 - (C) √2
 - (D) $\frac{1}{\sqrt{2}}$
- 53. A body floats in a liquid, with half of its volume in air, contained in a beaker. If the whole system falls freely under gravity then the upthrust on the body due to the liquid is:
 - (A) equal to the weight of liquid displaced
 - (B) equal to the weight of the body in
 - (C) equal to the weight of the immersed portion of the body
 - (D) zero

- 54. If Young's double slit experiment is performed inside water instead of air then:
 - (A) fringe width would remain unchanged
 - (B) fringe width would increase
 - (C) fringe width would decrease
 - (D) no fringes would be seen
- 55. The potential energy of a system of three identical charges 1 μC each placed at the vertices of an equilateral triangle of side 10 cm is:
 - (A) 0.27 J
 - (B) 2.7 J
 - (C) 3.7 J
 - (D) 0.37 J
 - 56. A charge of 1 coulomb moves in a circle at 10 revolutions per second. The radius of the circle is 2×10^{-6} m. Magnetic field at the centre of the circle is:
 - (A) $\frac{\pi}{10}$ N A⁻¹ m⁻¹
 - (B) $\frac{\pi}{5}$ N A⁻¹ m⁻¹
 - (C) $\pi N A^{-1} m^{-1}$
 - (D) $\frac{\pi}{100} \text{ N} \text{A}^{-1} \text{ m}^{-1}$

- 57. A (100 W, 200 V) electric bulb is connected to a 160 Volts supply. The power consumption would be:
 - (A) 64 W
 - (B) 80 W
 - (C) 100 W
 - (D) 125 W
- 58. Two identical parallel plate capacitors of same dimensions joined in series are connected to a D.C. source. When one of the plates of one capacitor is brought closer to the other plate. Which of the following observations will be correct?
 - (i) The voltage on the capacitor whose plates come closer is greater than the voltage on the capacitor whose plates are not moved.
 - (ii) The voltage on the capacitor whose plates come closer is smaller than the voltage on the capacitor whose plates are not moved.
 - (iii) The voltage on the two capacitors remain equal.
 - (iv) The applied voltage is divided among the two inversely as the capacitance.
 - (A) (i) and (iv)
 - (B) (ii) and (iv)
 - (C) (iii) and (iv)
 - (D) (ii), (iii) and (iv)

- 59. A series combination of an inductor having self inductance L and a resistor with resistance R are connected to a battery of emf E with negligible internal resistance. The final value of current depends on:
 - (A) Land R
 - (B) E and L
 - (C) E and R
 - (D) L, R and E
- 60. The average value of current in an AC circuit is 2 amp. An AC ammeter connected to the circuit will show:
 - (A) $\sqrt{2} \pi$ amp
 - (B) $\frac{\pi}{\sqrt{2}}$ amp
 - (C) $2\sqrt{2} \pi \text{ amp}$
 - (D) $\frac{\pi}{2\sqrt{2}}$ amp

B - SECTION - III SCIENCE (PCM) CHEMISTRY

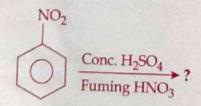
- 61. The refining of Nickel metal is done by :
 - (A) Van Arkel Method
 - (B) Mond process
 - (C) Vapour-phase refining
 - (D) Zone refining
- 62. 50 ml of H₂ diffuses out through a small hole from a vessel in 20 mins. The time needed for 40 ml of O₂ to diffuse out from the same vessel is:
 - (A) 12 min
 - (B) 64 min
 - (C) 8 min
 - (D) 32 min
- 63. Which of the following shows positive inductive effect?
 - (A) NO₂
 - (B) COOH
 - (C) -OCH₃
 - (D) -CN
- 64. According to Le-Chatelier's principle maximum yield of ammonia is obtained at:
 - (A) High temperature and low pressure
 - (B) High pressure
 - (C) Low temperature
 - (D) Low temperature and High pressure

- 65. The volume of 0.05 N H₂SO₄ solution needed to completely neutralise 25 ml of 0.1 N NaOH solution is :
 - (A) 25 ml
 - (B) 50 ml
 - (C) 100 ml
 - (D) 12.5 ml
- 66. Which of the following ion is the smallest in size?
 - (A) N3-
 - (B) Na+
 - (C) F-
 - (D) O2-
- 67. Among the following covalent compounds, the compound having more polar character is:
 - (A) HI
 - (B) HCl
 - (C) HBr
 - (D) HF
- 68. One drop of water weighs 0.018 g.

 Number of water molecules present in one drop of water is:
 - (A) 1×10⁻³
 - (B) 6.02 × 10²⁰
 - (C) 22.4×10-3
 - (D) $6.02 \times 3 \times 10^2$



- 69. The relative lowering in vapour pressure of an ideal solution containing the non-volatile solute is equal to the mole fraction of the solute at a given temperature. This law is known as:
 - (A) Henry's law
 - (B) Van't Hoff's law
 - (C) Raoult's law
 - (D) Ostwald's dilution law
- 70. The oxide of a metal contains 40% oxygen. If the valency of the metal is 3, its atomic mass will be:
 - (A) 8
 - (B) 16
 - (C) 36
 - (D) 24
- 71. What will be the product of the following reaction?



- (A) m-dinitrobenzene
- (B) o-dinitrobenzene
- (C) p-dinitrobenzene
- (D) Both o- and p-dinitrobenzene

- 72. According to VSEPR theory the shape of SF₆ molecule is:
 - (A) Trigonal bipyramidal
 - (B) Regular octahedral
 - (C) Pentagonal bipyramidal
 - (D) Tetrahedral
- 73. When acetylene is passed through dil.H₂SO₄ in presence of HgSO₄ at 60°C, the organic compound formed is:
 - (A) Dimethylether
 - (B) Acetone
 - (C) Acetic acid
 - (D) Acetaldehyde
- 74. In the standardisation of Na₂S₂O₃ using K₂Cr₂O₇ by iodometry, the equivalent mass of K₂Cr₂O₇ is:

- (B) Mol.Mass
- (C) $\frac{\text{Mol.Mass}}{6}$
- (D) Same as molecular mass

- 75. ZnS is not precipitated by passing H₂S through acidified ZnCl₂ solution, but CuS is precipitated by passing H₂S through acidified CuSO₄ solution. The reason for this is:
 - (A) K_{sp} CuS >> K_{sp} ZnS
 - (B) K_{sp} CuS = K_{sp} ZnS
 - (C) K_{sp} CuS << K_{sp} ZnS
 - (D) None of these
- 76. The uncertainty in the momentum of an electron is 1×10^{-5} kg m/s. The uncertainty in its position will be $(h=6.62\times 10^{-34} \text{ kg m}^2/\text{s})$:
 - (A) 1.05×10^{-28} m
 - (B) 1.05×10^{-26} m
 - (C) 5.27×10^{-30} m
 - (D) 5.27×10⁻²⁸ m
- 77. The correct order of electron gain enthalpy among the following is:
 - (A) F > C1 > Br
 - (B) Br > Cl > F
 - (C) C1 > F > Br
 - (D) F > Br > Cl

78. The set of quantum numbers for 19th electron of Chromium atom is:

	n	1	m	s
(A)	3	0	0	1/2
(B)	3	2	-2	1/2
(C)	4	0	0	1/2
(D)	4	1	0	1/2

- 79. Which of the following is an electrophile?
 - (A) H₂O
 - (B) NH₃
 - (C) AICl₃
 - (D) CH₃NH₂
- 80. The ore containing two different metals is:
 - (A) Haematite
 - (B) Galena
 - (C) Copper pyrite
 - (D) Magnetite

B - SECTION - III SCIENCE (PCM) MATHEMATICS

- 81. R is a relation over the set of real numbers and it is given by mn≥0. Then R is:
 - (A) Symmetric and transitive
 - (B) A partial order relation
 - (C) Reflexive and symmetric
 - (D) An equivalence relation
- 82. If the quadratic equation $ax^2 + bx + c = 0$

has $\frac{\sqrt{2}+1}{\sqrt{2}-1}$ as one root of it and a=2,

then what is the equation in standard form?

- (A) $x^2 6x + 1 = 0$
- (B) $2x^2 x + 1 = 0$
- (C) $x^2 \sqrt{2}x + \sqrt{2} = 0$
- (D) $\sqrt{2x^2 3x} + \sqrt{2} = 0$
- 83. Let $A = \{x \mid -1 < x < 1\} = B$. If $f: A \rightarrow B$ is bijective then a possible definition of f(x) is:
 - (A) |x|
 - (B) x|x|
 - (C) sin πx
 - (D) None of these
- 84. Let A and B be two sets. Then $(A \cup B)' \cup (A' \cap B)$ is equal to:
 - (A) A'
 - (B) A
 - (C) B'
 - (D) None of these

- 85. If $x=2+\sqrt{3}$, find the value of $x^2+\frac{1}{x^2}$
 - (A) 12
 - (B) 14
 - (C) 16
 - (D) 18
- 86. The number of terms common between series 1+2+4+8+ to 100 terms and 1+4+7+10+...... to 100 terms is:
 - (A) 6
 - (B) 4
 - (C) 5
 - (D) None of these
- 87. Let G be a group. If H is a subgroup of G with order H and index of H in G is 7, then order of group G must be:
 - (A) 154
 - (B) 18
 - (C) 77
 - (D) 1078



- 88. Differentiate $2 \log_2 x$ with respect to x.
 - (A) 2ex
 - (B) $\log_2 x + 1$
 - (C) log₂x
 - (D) 1
- 89. If a, b, c, d and p are distinct real numbers such that $(a^2+b^2+c^2)$ $p^2-2(ab+bc+cd)$ $p+(b^2+c^2+d^2) \le 0$, then a, b, c, d are in:
 - (A) A.P.
 - (B) G.P.
 - (C) H.P.
 - (D) Logarithmic series
- 90. Evaluate the right hand limit of the function:

$$f(x) = \begin{cases} \frac{|x - 4|}{x - 4}, & x \neq 4 \\ 0, & x = 4 \end{cases} \text{ at } x = 4$$

- (A) -1
- (B) 1
- (C) 0
- (D) does not exist

- 91. The equation of the plane passing through the line $\frac{x-1}{2} = \frac{y+1}{-1} = \frac{z}{3}$ and parallel to the direction where direction numbers are 3, 4, 2 is :
 - (A) 14x 5y 11z = 19
 - (B) 3x + 4y + 2z + 1 = 0
 - (C) 2x y + 3z = 3
 - (D) None of these
- 92. The diagonals of a parallelogram PQRS are along the lines x + 3y = 4 and 6x 2y = 7. Then PQRS must be a:
 - (A) Rectangle
 - (B) Square
 - (C) Cyclic Quadrilateral
 - (D) Rhombus
- 93. The foot of the perpendicular on the line $3x+y=\lambda$ drawn from the origin is C. If the line cuts the X-axis and Y-axis at A and B respectively then BC : CA is :
 - (A) 1:3
 - (B) 3:1
 - (C) 1:9
 - (D) 9:1

- 94. Find the mean deviation from the mean for the data 6, 7, 10, 12, 13, 4, 8, 20.
 - (A) 10
 - (B) 3
 - (C) 3.75
 - (D) 8.6
- 95. Two dice are thrown simultaneously. Find the probability of getting a multiple of 2 on one dice and a multiple of 3 on the other dice.
 - (A) $\frac{1}{12}$
 - (B) $\frac{1}{3}$
 - (C) $\frac{11}{36}$
 - (D) $\frac{1}{4}$
- 96. If $tan^2\theta = 2tan^2\phi + 1$, then $cos 2\theta$ is equal to:
 - (A) $\sin^2 \phi$
 - (B) $-\sin^2\phi$
 - (C) tan² φ
 - (D) $-\cot^2\phi$

97. Solve:

$$\tan^2\theta + (1 - \sqrt{3}) \tan\theta - \sqrt{3} = 0$$

- (A) $\frac{\pi}{3}$
- (B) $\frac{\pi}{4}$
- (C) $\frac{\pi}{6}$
- (D) $\frac{\pi}{2}$
- 98. The diameter of a sphere is decreased by 25%. By what percent does its surface area decrease?
 - (A) 25
 - (B) 52.75
 - (C) 37.25
 - (D) 43.75
- 99. q p q p r q - p - 0 - q - r is equal to:
 - (A) p+q+r
 - (B) 0
 - (C) p-q-r
 - (D) -p+q+r 103121
- 100. There are two cones. The curved surface area of one is twice that of the other. The slant height of the later is twice that of the former. Find the ratio of their radii.
 - (A) 2:1
 - (B) 4:1
 - (C) 3:2
 - (D) 4:3

B - SECTION - III SCIENCE (CBZ) CHEMISTRY

- 50 ml of H₂ diffuses out through a small hole from a vessel in 20 mins. The time needed for 40 ml of O2 to diffuse out from 2 the same vessel is:
 - 12 min (A)
 - 64 min (B)
 - 8 min (C)
 - (D)
- 32 min
- Which of the following ion is the smallest 42. in size?
 - (A) N^{3}
 - Na
 - F (C)
 - 02-(D)
- 43. According to Le-Chatelier's principle maximum yield of ammonia is obtained at:
 - High temperature and low pressure (A)
 - High pressure (B)
 - Low temperature (C)
 - Low temperature and High pressure

- The oxide of a metal contains 40% oxygen. 44. If the valency of the metal is 3, its atomic mass will be:
 - (A)
 - (B) 16
- The refining of Nickel metal is done by:
 - (A) Van Arkel Method
 - (B) Mond process
 - Vapour-phase refining
 - (D) Zone refining
 - ZnS is not precipitated by passing H2S 46. through acidified ZnCl, solution, but CuS is precipitated by passing H2S through acidified CuSO₄ solution. The reason for this is:
 - (A) K_{sp} CuS >> K_{sp} ZnS
 - (B) K_{sp} CuS = K_{sp} ZnS
 - (C) K_{sp} CuS << K_{sp} ZnS
 - (D) None of these

- 47. The volume of 0.05 N H₂SO₄ solution needed to completely neutralise 25 ml of 0.1 N NaOH solution is:
 - (A) 25 ml



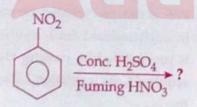
(B) 50 ml

(C)

- 41/12
- (D) 12.5 ml

100 ml

- 0.05 0.
- 48. The ore containing two different metals is:
 - 5, this
 - (A) Haematite
 - (B) Galena
 - (C) Copper pyrite
 - (D) Magnetite
- 49. What will be the product of the following reaction?



- (A) m-dinitrobenzene
- (B) o-dinitrobenzene
- (C) p-dinitrobenzene
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- of an ideal solution containing the non-volatile solute is equal to the mole fraction of the solute at a given temperature. This law is known as:
 - (A) Henry's law
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 - (A) HI
 - (B) HCI
 - (C) HBr
 - (D) HF
- 52. One drop of water weighs 0.018 g.

 Number of water molecules present in one drop of water is:
 - (A) 1×10⁻³
 - (B) 6.02×10^{20}
 - (C) 22.4×10⁻³
 - (D) 6.02×3×10²
- 53. Which of the following shows positive inductive effect?
 - (A) -NO2
 - (B) COOH
 - (C) -OCH₃
 - (D) -CN

54. The set of quantum numbers for 19th electron of Chromium atom is:

	n	1	m	S
(A)	3	0	0	1/2
(B),	3	2	-2	1/2
(C)	4	0	0	1/2
(D)	4	1	0	1/2

- 55. When acetylene is passed through dil.H₂SO₄ in presence of HgSO₄ at 60°C, the organic compound formed is:
 - (A) Dimethylether
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- 56. According to VSEPR theory the shape of SF₆ molecule is:
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 - (B) Regular octahedral
 - (C) Pentagonal bipyramidal
 - (D) Tetrahedral
- 57. The correct order of electron gain enthalpy among the following is:
 - (A) F > Cl > Br
 - (B) Br > CI > F
 - (C) C1 > F > Br
 - (D) F > Br > Cl

- 58. The uncertainty in the momentum of an electron is 1×10^{-5} kg m/s. The uncertainty in its position will be $(h=6.62\times 10^{-34} \text{ kg m}^2/\text{s})$:
 - (A) 1.05×10⁻²⁸ m
 - (B) 1.05×10^{-26} m
 - (C) 5.27×10^{-30} m
 - (D) 5.27×10^{-28} m

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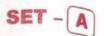
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 - (A) Mol.Mass
 - (B) Mol.Mass
 - (C) Mol.Mass
 - (D) Same as molecular mass
 - 60. Which of the following is an electrophile?
 - (A) H₂O
 - (B) NH₃
 - (C) AICI₃
 - (D) CH₃NH₂

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B - SECTION - III SCIENCE (CBZ) BOTANY

- 61. The maiden-hair tree is:
 - (A) Adiantum
 - (B) Pinus
 - (C) Ginkgo biloba
 - (D) Gnetum ula
- 62. The phylogenetic basis of classification proposed by John Hutchinson was presented in the book:
 - (A) Systema nature
 - (B) Introduction to the natural orders of plants
 - (C) Fundamental botanica
 - (D) The families of flowering plants
- 63. Seedless vascular cryptogams are:
 - (A) Monocots
 - (B) Ferns
 - (C) Liverworts
 - (D) Gymnosperms
- 64. Where can the maximum biodiversity be seen?
 - (A), Tropical Rain Forest
 - (B) Temperate Rain Forest
 - (C) Alpine Forest
 - (D) Mediterranean Forest
- 65. Which is not an element of phloem tissue?
 - (A) Sieve tubes
 - (B) Companion cells
 - (C) Bast fibres
 - (D) Wood parenchyma

- 66. Sapwood is synonymous with:
 - (A) Bark
 - (B) Periderm
 - (C) Inner layers of secondary xylem
 - (D) Outer layers of secondary xylem
- 67. Indicate the features of a dicot stem:
 - (A) Vascular bundles closed, collateral and exarch
 - (B) Vascular bundles scattered, more towards the periphery
 - (C) Vascular bundles with bundles radial, exarch and closed
- (D) Vascular bundles are conjoint, collateral, open and endarch
- 68. Which organelle does not participate in photorespiration?
 - (A), Peroxisome
 - (B) Mitochondria
 - (C) · Golgi bodies
 - (D) Chloroplast
- 69. Which are the products of cyclic photophosphorylation during photosynthesis?
 - (A) ATP + O_2
 - (B) NADH + O_2
 - (C) ATP + NADH
 - (D) ATP + NADH + O2
- 70. The structure of chlorophyll molecule shows a porphyrin head and phytol tail. Porphyrin is a cyclic-tetra pyrrole ring to which phytol tail is attached. To which ring of porphyrin is the phytol tail attached?
 - (A) I
 - (B) II
 - (C) III
 - (D) IV



- 71. Which effect does treatment of gibberellins have on cabbage leaves?
 - (A) Abscission
 - (B) Bolting
 - (C), Delayed senescence
 - (D) Early senescence
- 72. The phenomenon of single gene contributing to multiple phenotypic traits is called:
 - (A) Pleiotropy
 - (B). Multiple allelism
 - (C) Co-dominance and man
 - (D) Polygenic inheritance
- 73. Exogenously borne non-motile asexual reproductive units in Ascomycetes are called:
 - (A) Conidia
 - (B) Ascospore
 - (C) Basidiospore
 - (D) Zoospores
- 74. Which disease of wheat is caused by Ustilago?
 - (A) Rust
 - (B) Leaf spot
 - (C) Smut
 - (D) Blast
- 75. The entry of pollen tube through the micropyle is:
 - (A) Allogamy
 - (B) Geitonogamy
 - (C) Porogamy
 - (D) Chalazogamy

- Micropropagation is:
 - (A) Production of plants from Zoospores
 - (B) Propagation of microorganisms
 - (C) Technique of obtaining new plants by growing cells or tissues in culture medium
 - (D) Technique of obtaining small plants
- 77. To determine homozygosity or heterozygosity, a plant must be crossed with:
 - (A) Dominant parent
 - (B) Recessive parent
 - (C) Homozygous dominant
 - (D) Heterozygous dominant
- 78. Which is unrelated pair?
 - (A) Gibberellins Gibberalla fujikuroi
 - (B) Ethylene Methionine
 - (C) Auxin Indole-3-acetic acid
 - (D) Cytokinin Violaxanthin
- 79. Which fungus was responsible for the great Irish famine?
 - (A) Leaf spot of rice
 - (B) Rust of wheat
 - (C) Powdery mildew of peas
 - (D) Late blight of potato
- 80. After fertilization the seed coat of a seed develops from:
 - (A) Embryo sac
 - (B) Integuments
 - (C) Nucellus
 - (D) Chalaza

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B - SECTION - III SCIENCE (CBZ) ZOOLOGY

- 81. Which stage of mitosis is regarded as the phase of reconstruction and reorganization of nucleus?
 - (A) Prophase
 - (B) Metaphase
 - (C) Anaphase
 - (D) Telophase
- 82. In which type of linkage, chromosomes do not undergo any breakage during gametogenesis and no independent assortment occurs between the pairs of genes?
 - (A) Sex-linkage
 - (B) Inter-chromosomal linkage
 - (C) , Incomplete linkage
 - (D) Complete linkage
- 83. Where are the t-RNAs transcribed in the eukaryotes?
 - (A) Ribosome
 - (B) Nucleolus
 - (C) ER
 - (D) Golgi body

- 84. To which class does Protopterus belong?
 - (A) Aves
 - (B) Reptilia
 - (C) Amphibia
 - (D) Pisces
- 85. In humans the chromosomal composition of zygote destined to form a female is:
 - (A) 22 + X
 - (B) 22 + Y
 - (C) 44 + XX
 - (D) 44 + XY
- 86. The walls and roof of a greenhouse out-door laboratory is made up of :
 - (A) Asbestus
 - (B) GI sheet
 - (C) Glass
 - (D) Green grass

- 87. The phenomenon of industrial melanism was first observed in :
 - (A) USA
 - (B) United Kingdom
 - (C) Kenya
 - (D) Italy
 - 88. Which one was responsible for Bhopal gas tragedy?
 - (A) Methane
 - (B) Methyl carbide
 - (C) Methyl isocyanate
 - (D) Melathion
 - 89. Which type of nutrition is seen in the animals who feed on their own faecal matter?
 - (A) Coprozoic
 - (B) Mesotrophic
 - (C) Osmotrophic
 - (D) Saprozoic

- 90. Which one is not a factor for formation of new species according to modern synthetic theory of evolution?
 - (A) Isolation
 - (B) Sexual selection
 - (C) Variation
 - (D) Natural selection
- 91. Which of the following statement, is true?
 - (A) All veins carry deoxygenated blood
 - (B) All arteries carry oxygenated blood
 - (C) All veins except one carry oxygenated blood
 - (D) All arteries except one carry oxygenated blood
 - 92. Which physiological process does occur inside the cytoplasm of a cell?
 - (A) Krebs Cycle
 - (B) Electron Transport
 - (C) Citric acid Cycle
 - (D) Glycolysis

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- 93. In man, aerobic respiration is completed in :
 - (A) Nucleus
 - (B) Mitochondria
 - (C) Nucleolus
 - (D) Dictyosome
- 94. The pressure build up at the glomerular capillary network is called:
 - (A) Intrarenal pressure
 - (B) Hydrostatic pressure
 - (C) Osmotic pressure
 - (D) Interstitial pressure
- 95. The SA node is located in the :
 - (A) Right atrium
 - (B) Right ventricle
 - (C) Left atrium
 - (D) Left ventricle
- 96. Which hormone is called 'love hormone'?
 - (A), Oxytocin
 - (B) Vasopressin
 - (C) Testosterone
 - (D) Melatonin

- 97. Ammonia is converted to ures through which cycle ?
 - (A) Citric acid Cycle
 - (B) Cardiae Cycle
 - (C) Ornithine Cycle
 - (D) Sodium Co-transport
- 98. Which one is an inhibitory neurotransmitter?
 - (A) Acetylcholine
 - (B) Histamine dopamine
 - (C) Gamma-aminobutyric acid
 - (D) Glutamate
- 99. Which one of the following enzymes is present in the acrosome of sperm head?
 - (A) Pepsinogen
 - (B) Trypsin
 - (C) Hyaluronidase
 - (D) Isomerase
- 100. An abnormal condition in man where the testes fail to descend into scrotum and is retained in the condition called:
 - (A) Gubernaculum
 - (B) Cretinism
 - (C) Lorain dwarfism
 - (D) Cryptoorchism

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(Continued)

C - SECTION - IV

CHILD DEVELOPMENT, PEDAGOGY, SCHOOL MANAGEMENT & EVALUATION

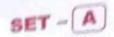
- 101. Which of the following is not a guideline for encouraging creativity?
 - (A) Ask students to support dissenting opinions
 - (B) Use a class brainstorming session whenever possible
 - (C) Give ungraded assignments from time to time
 - (D) Don't reinforce a pattern of telling "Secrets"
- 102. According to Psychoanalytic theory of motivation which of the following is true?
 - (A) Man's behaviour is directed by his will and that the will is motivated by intellectual evaluation.
 - (B) Motivation is an element of the highest importance in the process of learning.
 - (C) Human behaviour is inspired by the desires lying concealed in the unconscious and subconscious mind of the individual.
 - (D) Emphasized that motivation to work is rooted from physiological to self-actualisation needs.

- 103. School Based Management is a way for forcing individual schools to take responsibility for what happens to the children under their jurisdiction - was the view of
 - (A) Malen
 - (B) Hausman
 - (C) Candoli
 - (D) Hallinger
- 104. In which type of educational management teachers get proper scope for evaluating the assignments entrusted upon them?
 - (A) Creative Management
 - (B) Laissez Faire Management
 - (C) Decentralised Management
 - (D) Democratic Management
- 105. The prompting method of memory testing is created by :
 - (A) H. Munsterburg
 - (B) H. Ebbinghaus
 - (C) Ephrussi
 - (D) Pholman



- 106. At which phase a child cannot solve a problem alone but can be successful under adult guidance or in collaboration with a more advanced peer?
 - (A) Zone of Proximal Development (ZPD)
 - (B) Zone of Actual Development (ZAD)
 - (C) Information Processing
 - (D) Meta Cognition
- 107. Continuous and Comprehensive evaluation emphasises:
 - (A) How learning can be observed, recorded and improved upon
 - (B) Continuous testing on a comprehensive scale to ensure learning
 - (C) Fine tuning of tests with the teaching
 - (D) Redundancy of the board examination
- 108. Which assessment involves students in the collection and evaluation of materials to be included for examination?
 - (A) Check List
 - (B) Portfolio
 - (C) Rating Scale
 - (D) Rubrics

- 109. Which part of the brain is involved in higher cognitive process?
 - (A) Cerebellum
 - (B), Cerebral cortex
 - (C) Midbrain
 - (D) Pons
- 110. Which of the following is not a characteristic of critical pedagogy?
 - (A) To empower students and help them to help themselves
 - (B) To subjugate students by oppression
 - (C) To promote emancipation and intellectual growth
 - (D) To center its practice on community and collaboration
- 111. Which one of the following assessment practices will bring out the best in students?
 - (A) When students are required to reproduce facts as tested via multiple choice questions.
 - (B) When the emphasis is laid upon positive correlation between test scores and student ability.
 - (C) When the marks obtained and the position secured by the student in the class are the ultimate determinants of success.
 - (D) When conceptual change and students alternative solutions are assessed through several different methods of assessment.



- 112. Which one of the following situations is illustrative of a child centred classroom?
 - (A) A class in which the teacher dictates and students are asked to memorise the notes.
 - (B) A class in which the textbook is the only resource the teacher refers to.
 - (C) A class in which the behaviour of students is governed by the rewards and punishments the teacher would given them.
 - (D) A class in which the students are sitting in groups and the teacher take turns to go to each group.
- 113. Score based on statistical comparison of individual's performance with the performance of others in that age group is ______.
 - (A) Intelligence Quotient
 - (B) Deviation IQ
 - (C) Fluid Intelligence
 - (D) Crystallized Intelligence
- 114. Behaviour is the movement of an organism or its parts in a frame of reference provided by the organism itself or by external objects or fields of force. Which theory of learning does it belong to?
 - (A) Stimulus Response Theory
 - (B) Theory of Systematic Behaviour
 - (C) Theory of Conditional Response
 - (D) Operant Conditioning Theory

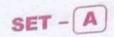
- 115. According to whom, a short answer essay item is one in which the examined supplies the answer in one or two lines and is usually concerned with one central concept?
 - (A) Marshall & Hales
 - (B) Linn & Miller
 - (C) Gronlund
 - (D) NCF-2005
- 116. A grading system in which teachers base assessment decisions about an individual's work on comparisons with the work of peers is classified as:
 - (A) Norm-referenced grading
 - (B) Criterion-referenced grading
 - (C) Competitive grading
 - (D) None of these
- 117. Which of the following is not the characteristics of formative evaluation?
 - (A) Its design is exploratory and quite flexible
 - (B) It seeks to identify influential variables
 - (C) It monitors teaching learning strategy during instructions
 - (D) It is almost unobstructive and nonreactive

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- 118. To which of Kohlberg's stages, empathy and prosocial behaviours are most closely related?
 - (A) Pre Conventional Ethics
 - (B) Conventional Ethics
 - (C) Post Conventional Ethics
 - (D) None of these
- 119. In this world of human affairs there is no worse nuisance than a boy at the age of fourteen. If he talks with a childish lisp, he is called a baby; and if he answers in a grown up way, he is called an impertinent whose view was it?
 - (A) Rabindra Nath Tagore
 - (B) Mahatma Gandhi
 - (C) Sri Aurobindo
 - (D) S. Radhakrishnan
- 120. Condition involving a range of motor or coordination difficulties due to brain damage is known as:
 - (A) Epilepsy
 - (B) Spasticity
 - (C) Cerebral Palsy
 - (D) Articulation disorders
- 121. A scale with a set of points which describe varying degrees of the dimension of an attribute under observation is known as:
 - (A)* Aptitude scale
 - (B) Rating scale
 - (C) Attitude scale
 - (D) Questionnaire & schedules

- 122. According to Piaget, the ability to infer a relationship between two objects based on knowledge of their relationship with a third object, develop at which stage?
 - (A) Sensori motor
 - (B) Pre-Operational
 - (C) Concrete Operational
 - (D) Formal Operational
- 123. Which of the following does not contain School Development Plan estimates?
 - (A) Physical requirement of additional infrastructure and equipments over the three year period.
 - (B) Classwise enrolment for three years.
 - (C) Training requirement of teachers.
 - (D) Free textbooks and additional costs as per the specifications in schedule.
- 124. Whose name is strongly associated with the apparatus of puzzle box ?
 - (A). Skinner
 - (B) Pavlov
 - (C) Thorndike
 - (D) Tolman
- 125. NCTE as a statutory body came into existence in pursuance of the NCTE Act-1993 on the ______.
 - (A) 17th August 1993
 - (B) 17th August 1995
 - (C) 5th September 1995
 - (D) 10th December 1994



- 126. The essay test possesses relatively low validity and reliability because of the following factors except:
 - (A) It can be assessed only by a teacher or competent professionals
 - (B) It may not provide a true picture of the comprehension level of the learner
 - (C) The learners focus on learning broad concepts and articulating relationship
 - (D) Good verbal ability even in the absence of relevant points
- 127. Assessment for learning takes into account the followings except:
 - (A) Qualitative improvement in learning
 - (B) Learning styles of students
 - (C) Develops personal social skills
 - (D) Mistakes and strengths of students
- 128. Who has suggested that people are motivated by a hierarchy of needs, beginning with basic psychological requirements and moving upto the need for self-fulfillment?
 - (A) J. Atkinson
 - (B) Kelly
 - (C) Maslow
 - (D) B. Weiner

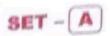
- 129. Characterization by value, which is one of the objective of Bloom's taxonomy, comes within which domain?
 - (A). Cognitive
 - (B) Affective
 - (C) Psychomotor
 - (D) None of these
- 130. Which of the following is a physical/ material resource for education?
 - (A) Intellectual properties
 - (B) Sponsorships
 - (C) Alumni
 - (D) Endowments
- ages are attached to the stages, children pass through them at different rates" whose theory of development helps us to understand this statement?
 - (A) Robert S. Sear
 - (B) Vygotsky
 - (C) Piaget
 - (D) Erikson
- 132. A child reasons 'you do this for me and I'll do that for you'. In which stage of Kohlberg's moral reasoning would this child fall?
 - (A) The 'good boy-good girl' orientation
 - (B) The social-contract orientation
 - (C) The instrumental purpose orientation
 - (D) The punishment and obedience orientation

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- 133. Ongoing process of arranging information and experience into mental system or categories is known as:
 - (A) Assimilation
 - (B) Accommodation
 - (C) Organization
 - (D) Equilibration
- 134. All of the following promote assessment as learning except:
 - (A) Telling students to take internal feedback
 - (B) Generating a safe environment for students to take chances
 - (C) Tell students to reflect on the topic taught
 - (D) Testing students as frequently as possible
- 135. Which one of the following is a good example of learning of a problem solving task till the students able to do it by themselves?
 - (A) Offering a reward for solving the problem quickly
 - (B) Telling them that they can do it by trying again and again
 - (C), Providing a half solved example
 - (D) Telling them they can't go home till they solve the problem

- 136. The following are the main objectives of International Conference on Educational Planning held at Paris in 1968 except:
 - (A) To examine critically the experiences of educational planning over the past ten years.
 - (B) To assess major tendencies and problems with which educational planning is likely to have to deal in the next ten years.
 - (C) To assess co-operative learning groups and difficulties of implementing multiage education.
 - (D) To develop practical guidelines for helping individual nations.
- 137. There should be more varied modes of assessment beyond the examination hall paper pencil test, was the recommendation of:
 - (A) NEP 2020
 - (B) NCF 2005
 - (C) NPE 1986
 - (D) Revised NPE 1992
- 138. Who is the founder of critical pedagogy?
 - (A) Paulo Freire
 - (B) Paul Willis
 - (C) Ira Shor
 - (D) Shirley Steinberg



- 139. Rousseau's theory on adolescence was criticised by the psychologists, because :
 - (A) It was not purely philosophic in
 - (B) It was not based on observation and experiments
 - (C) He was a devoted parent
 - (D) He did not analyse the selfexpression of children
- 140. Which of the following is a guideline for the teachers to deal with the learning disabled students?
 - (A) Breaking assignments into very small steps
 - (B) Make sure students are being reinforced for their successes
 - (C) Work on the learning problem directly
 - (D) All of the above
- 141. Organising pre-service and in-service training of teachers; develop and disseminate innovative educational techniques and practices are the objectives of which organisation?
 - (A) NCTE
 - (B) NCERT
 - (C) Central Advisory Board of Education
 - (D) NIEPA

- 142. Which of the following is not a characteristic of Blue Print?
 - (A) Weightage are given to objectives and contents
 - (B) Weightage to form of questions in terms of marks
 - (C) A two dimensional chart
 - (D) It produces a link between test items and paper setters policy decisions
- 143. Which of the following is a benefit of peer assessment?
 - (A) It can assist in deepening the student's own perception.
 - (B) It helps narrowing the gap between one's imagined view of teaching and what actually occurs.
 - (C) It helps students towards understanding the observation process.
 - (D) It makes a student to become more independent learner.
- 144. Which of the following is not a guideline for the teachers to develop problem solving qualities of learners?
 - (A) Ask the students if they are sure they understand the problem
 - (B) Encourage attempts to see the problem from different angles
 - (C) Pose a question and let students try to find the answer
 - (D) Teach heuristics

- 145. According to McDougall's view Negative self-feeling is associated with which of the following instincts?
 - (A) Submission
 - (B) Acquisition
 - (C) Self assertion
 - (D) Repulsion
- 146. In MCQ item, the problem part is called as:
 - (A) Direction
 - (B) Foils
 - (C) Stem
 - (D) Distractor
- **147.** Which of the following is the main objective of continuous assessment?
 - (A) To find out the extent to which the objectives have been achieved
 - (B) To discover how far the learning experiences in the classroom have proved effectively
 - (C) To learn how successfully the aims of education have been fulfilled
 - (D). To help the learners to understand their progress in learning

- 148. What do you mean by Rule-Eg method?
 - (A) Teaching or learning by moving from specific examples to general rules.
 - (B) Teaching or learning by moving from general principles to specific examples.
 - (C) Making imaginative leaps to correct perceptions.
 - (D) Teachers present material in complete, organised form, moving from broadest to more specific concepts.
- 149. Role of teachers for the development of critical pedagogy is/are:
 - (A) Collaborative and co-operative learning
 - (B) Promote good citizen quality for future society
 - (C) Development of capabilities of learners
 - (D) All of the above
- 150. "Motivation is the stimulation of actions towards a particular objective where previously there was little or no attraction to that goal". This definition was given by:
 - (A) W.A. Kelly
 - (B) T.W. Atkinson
 - (C) F.G. McDonald
 - (D), H.W. Bernard

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