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அல்ட்ரா கலை மற்றும் அறிவியல் கல்லூரி தமிழ்- (பொதுத்தமிழ்)

| 1. | ஒரு காராமத்து நதியின் ஆசிரி அ) வாணிதாசன் இ) சிற்பிபாலசுப்பிரமணியன் | ஆ) புதுமைபித் | தன் | |
|-----|---|---|-------------------------|---------------|
| 2. | திறனாய்வுக்கலையை அறிமுல அ) தா.ஞானமூர்த்தி இ) கீட்ஸ் | கப்படுத்தியவர்க ஆ) கால்டுவெ ஈ) தி.சு.நடராஜ | ல் ன் | தக்கவர் யார்? |
| 3. | தண்டியலங்காரம் எந்த நூலை அ) தொல்காப்பியம் இ) இலக்கணவிளக்கம | த் தமுவி எழுதப் ஆ) வீரசோழிய ஈ) காவ்யதர்சம் | ம் | CCE |
| 4. | கவிகேசரி சாமிதீட்சிதர் எ அ) சூர்யோதயம் இ) ஒளிப்பறவை | ான்னும் நூலை ஆ) கர்மயோகி ஈ) வம்சமணிதீ | 4 | EG |
| 5. | இலக்கியத்தையும் மொழியை அ) யாப்பருங்கலக்காரிகை இ) தொல்காப்பியம் | பும் ஒருசேரப் டே ஆ) தண்டியலா ஈ) நன்னூல் | | ணை நூல் எது? |
| 6. | நக்கீரர் எழுதிய பத்துப்பாட்டு ந அ) ஒன்று ஆ) இரண்டு | இ) மூன்று | ா? ஈ) நான்கு | |
| 7. | உத்தமச்சோழன் எழுதிய நூலில் அ) முதல்கல் இ) இளந்தமிழே | ன் பெயர்? ஆ) பிறகொருந ஈ) கம்பர் | நாள் கோடை | |
| 8. | தமிழில் திணைப்பாகுபாடு அ) பொருட்குறிப்பு இ) தொடர்குறிப்பு | அடிப்படையி ஆ) சொற்குறிப் ஈ) எழுத்துக்குறி | JЦ | கிறது? |
| 9. | வெள்ளச் சமவெளிகள் அழியக் அ) பருவநிலைமாற்றம் இ) பாறைகள் இல்லாமை | க் காரணம் ஆ) மணல் அஎ் | | 5 |
| 10. | குடும்பம் எனும் சொல் முதன்மு அ) திருக்குறள் இ) திரிகடுகம் | pதலில் எந்த நூ ஆ) நாலடியார் ஈ) ஏலாதி | லில் பயின்றுவ(| ருகிறது? |
| 11. | சுஃபிதத்துவப் படைப்பான மஸ் அ) ஜலாலுத்தீன் ரூமி இ) மாலுமி | னவி என்ற நூல ஆ) யுவான்சுவ ஈ) கால்டுவெல் | ாங் | ипர்? |
| 12. | கம்பராமாயணத்தில் இடம்பெற் எத்தனையாவது காண்டம்? அ) ஒன்று ஆ) இரண்டு | றுள்ள அயோத் இ) மூன்று | திய காண்டம் ஈ) ஐந்து | |
| 13. | உரிமைத்தாகம் என்ற நூலின் ச அ) பூமணி ஆ) அப்துல் ரஞ | ஆசிரியர் யார்? தமான் | இ) மீரா | ஈ) சிற்பி |
| 14. | 'ஆலும் வேலும் பல்லுக்குறுதி பழமொழி எந்தெந்த நூலைக் (அ) நாலடியார் ,திருக்குறள் இ) திரிகடுகம் , ஏலாதி | தறிப்பிடுகின்றத ஆ) பழமொழி , | J)? | கை |

| 15. | 'வள்ளுவனைப் பெற்றதால் பெற்றதேபுகழ் வையகமே' அ) பாரதியார் இ) கம்பர் | எனப் புகழ்ந்து ட ஆ) பாரதிதாசு ஈ) இளங்கோவ | छं। |
|-----|--|---|---------------------------|
| 16. | 'மஞ்சள் குளிப்பாட்டி மையிட்டு முப்பாலும் மிஞ்சப் புகட்ட மிகள எனக் குறிப்பிடும் நூல் எது? அ) முக்கூடற் பள்ளு | வளர்ந்தாய்' ஆ) தமிழ்விடு | |
| 17. | இ) பரணிதமிழ்த்தாத்தா என்று அழைக்கஅ) உவே.சாமிநாதையர் | ஆ) வ.உ.சிதம்ப | ரனார் |
| 18. | இ) மு.வரதராசன்சுரதாவின் இயற்பெயர் | ஈ) பாரதியார் ஆ) இராஜகோ ஈ) சக்திதாசன் | типоют |
| 19. | நடை என்னும் சிற்றிதழை நட அ) சி.மணி ஆ) மணிபாலல் | த்தியவர் யார்? ன் | இ) வைரமுத்து ஈ) பெஸ்கி |
| 20. | வாயிலோயோ! வாயிலோயோ அ) நற்றிணை இ) புறநானூறு | r எனத் தொடங்டு ஆ) குறுந்தொ ஈ) கலித்தொன் | கை |
| 21. | கலிவெண்பாவின் அடிவரைய | | |
| | அ) 2 ஆ) 3 | (a) 4 | FF.) 13 |
| 22. | செயின்ட் ஜார்ஜ் கோட்டைக்கு அ) கருப்புநகரம் இ) வண்ணாரப் பேட்டை | உள்ளே வீடுகள் ஆ) வெள்ளை ஈ) சிந்தாதறிப் | ருகரம் |
| 23. | அருவின் நகரம் என்று அழை அ) மதுரை ஆ) சென்னை | | இ) தர்மபுரி ஈ) கோவை |
| 24. | இந்தியாவின் முதல் பொதுநூக அ) கன்னிமாரா நூலகம் இ) கீழ்த்திசைச்சுவடிகள் நூலக | ஆ) அண்ன | ளாநூற்றாண்டு நூலகம் |
| 25. | வாடியபயிரைக் கண்டபோது வ அ) தாயுமானவர் இ) இராமலிங்கவள்ளலார் | பாடியவள்ளல் ய ஆ) பட்டினத்தா ஈ) பத்திரிகிரிய | r ர் |
| 26. | தேவார நூல்களைத் தொகுத்த அ) நாதமுனி ஆ) நக்கீரர் | வர் யார்? இ) கபிலர் | ஈ) நம்பியாண்டார் நம்பி |
| 27. | கடலுக்கு அருகில் மணல் திட்(தேங்கியிருக்கும் பகுதிக்கு அ) உப்பங்கழி அ) அளம் | | ஈ) படிவம் |
| 28. | களிற்றுயானைநிரையில் எத்த அ) 80 ஆ) 100 | (E.S.) | |
| 29. | தலைக்குளம் என்ற நூலின் ஆ அ) தோப்பில் முகமதுமீரான் இ) இராஜகோபாலன் | | த மான் |
| 30. | தொல்காப்பியர்ஒன்றை அ) உருவகம் ஆ) உவமை | ்யே அணியாகச் இ) உவமேயம் | க் கூறினார்? ஈ) படிமம் |

| 31. | நாடகத்தை எனஅழைப் | பர்? |
|-----|---|--|
| | அ) காட்சியின் ஆற்றல் | ஆ) திரைக்கதை |
| | இ) திரைக்காட்சி | п) ஒற்றைக்கோணக்கலை |
| 32. | பிரான்சின் லூமியர் சகோதரர்க | கள் எந்தக் கருவியோடு சேர்த்து |
| | படப்பிடிப்பிற்கு திரைப்படம் எஎ | |
| | அ) எடிசன் | ஆ) ஜார்ஜ்மிலி |
| | இ) லூமியர் சகோதரர்கள் | ஈ) லிட்டில் டிராம்ப் |
| 33. | | ஹன்கோல் என்னும் கதைப்பாத்திரத்தை |
| | உருவாக்கியவர்? | |
| | அ) சுஜாதா ஆ) செழியன் | |
| 34. | குடிமக்கள் காப்பியம் என்று அ | ழைக்கப்படும் நூல் எது? |
| | அ) சிலப்பதிகாரம் | ച്ച) ഥത്തിഥേക്കെ |
| | இ) வளையாபதி | லை இதை இதி |
| 35. | தமிழில் கிடைக்கப்பெற்ற முத | ல் இலக்கண நூல் எது? |
| | அ) தொல்காப்பியம் | ஆ) நன்னூல் |
| | இ) குட்டித்தொல்காப்பியம் | ஈ) வீரசோழியம் |
| 36. | மெய்ப்பாடு எத்தனை வகைப்ப | படும்? |
| | அ) 4 - ஆ) 5 | இ) 8 所) 9 |
| 37. | |) சொற்றொடரை தம் உரையில் |
| | பயன்படுத்தியவர் யார்? | |
| | அ) பவணந்திமுனிவர் | ஆ) மயிலைநாதர் |
| | இ) ஆறுமுகநாவலர் | ஈ) பெருஞ்சித்திரனார் |
| 38. | | கட்பினும் அப்பொருள் மெய்ப்பொருள் |
| | | பயின்றுவரும் அணியினைக் குறிப்பிடுக. |
| | அ) வேற்றுமைஅணி | அ) உவமைஅணி |
| | இ) தீவகஅணி | ஈ)சொற்பொருள் பின்வருநிலையணி |
| 39. | ஒவ்வொருநாளும் சூரியன் புத் | |
| | அ) ஹிராக்ளிட்ஸ் | ஆ) இறையன்பு |
| | இ) கலைவாணி | ஈ) தமிழ்நதி |
| 40. | | த்தில் கலைத்துறையில் பட்டம் பெற்றவர் ? |
| | அ) தமிழ்ந்தி | ஆ) முகமதுராவுத்தர் |
| | இ) பாலச்சந்திரன் | ஈ) ஜலாலுத்தீன் ரூமி |
| 41. | | ு' எந்த நூலிலிருந்து எடுத்தாளப்பட்டுள்ளது? |
| | அ) கும்மிப்பாட்டு | ஆ) நாட்டுப்புறக்கலைகள் |
| | இ) புராணங்கள் | ஈ) தேயிலைத்தோட்டப்பாட்டு |
| 42. | 'காய்நெல் அறுத்துக் கவளம் 6 | காளினே மாநிறைவு இல்லதும் பல்நாட்டு |
| | ஆகும்' என்ற பாடலின் ஆசிரிய | பர் யார்? |
| | அ) பிசிராந்தையார் | ஆ) ஒள்வையார் |
| | இ) கோவூர்கிழார் | ஈ) அதியமான் |
| 43. | | тபடுத்தப்பட்ட பழந்தமிழ் வரிவடிவத்தை |
| | என்று அழைத்தனர். | |
| | அ) தமிழ்ப்பிராமி இதாவில் பால் காவில் | ஆ) ஆதன் |
| | இ) தமிழ் பழந்தழிழ் | ஈ) பழந்தமிழ் |
| 44. | பதிற்றுப்பத்தில் இடம்பெற்ற ே | |
| | கல்வெட்டில் இடம்பெற்றுள்ளத | |
| | அ) புகளூர் ஆ) கீழ்டி | இ) ஐராவதம் ஈ) பிரகதீஸ்வரர் |

| _ | | | | |
|-----|----------------------------|--------------------------------------|-------------------------------------|--|
| 45. | சாபவிமோசன பயன்படுத்திய | | சிறுகதையில் தெ | நான்மங்களைப் |
| | அ) கு.அழகிரிக இ) ஜெயமோக | | ஆ) புதுமைபி ஈ) இராமகிருஷ் | |
| 46. | தொன்மம் என் | பதன் பொருள் | யாது? | |
| | அ) புதுமை | ஆ) இளமை | இ) புகழ்ச்சி | ஈ) பழமை |
| 47. | 'பலர் துஞ்சவும் யாவர்? | ம் தாம் துஞ்சான் | ா -விழித்திருந்தவ | <u> </u> |
| | | நடுங்கிள்ளியை லங் கிள்ளியை | ப, பரணர் ப, கோவூர்கிழார் | |
| | | ல் இரும்பொன | | |
| | | ர, உருத்திரங்க <u>ன</u> | | |
| 48. | | | யவுவமைக்குப் ெ நக்குப் பயன்படா | பாருத்தமான தொடர்? து |
| | | | றருக்கும் பயன்၊ | |
| | | | ரக்குப் பயன்படா க்கும் பயன்படும் | |
| 49. | மயிலைநாதர் | எழுதிய முதல் į | நூல் எது? | 0 |
| | | | ஆ) வரலாற்று | |
| | இ) இலக்கிய அ | 0 | ஈ) கலையியல் | 9 . |
| 50. | | ன் இயற்றிய நூ | ாலைக் குறிப்பிடு | க. |
| | அ) குயில் | | ஆ) பூஜ்ஜியங் | களில் சங்கிலி |
| | இ) மத்தவிலா | ŦĎ | ஈ) மஞ்சரி | |
| | | E | NGLISH | |
| Ch | oose the app | ropriate syno | nyms for the u | nderlined words from the |
| | tions given. | 0 | 1 | |
| 1. | 12470.0 | a few moments | then as trade ela | ckened we went over. |
| 1. | a) reduced | b) improved | c) loosened | d) ended |
| 2. | | mer days, under | the hot sun, sold t | fruit, hacked newspapers , ran |
| | errands | |) C 1 | IVI. |
| | a)Jobs | b) hobby | c) fired | d)lazy |
| 3. | The water shou a)Failure | ld be actually bo b) loss | iling at the mome c) hit | nt of <u>impact.</u> d) effort |
| 4. | I imagined that | the destination v | would be humbled | wellings |
| | a) luxury | b) simple | c) showy | |
| 5. | China tea has vi | rtues which are | not to be despised | i. |
| | a) goodness | b) weakness | c) flaw | d) popular |
| | 115.05 | ropriate Anto | nyms for the u | nderlined words from the |
| | tions given. | | | |
| 6. | | ing up to <u>emigra</u> | | D |
| | a) Migrate | b) immigrate | c) move abroad | d) non emigrate |
| 7. | There are the <u>c</u> | ontroversial poi | nts in connection t | to tea drinking |
| | a) questionable | b) doubtfully | c) agreeable | d) disagree |

| 8. | The suffering of a) sad | the children was b) distress | particularly <u>heart</u> c) happy | t breaking d) stressed |
|------|---|---|--|---|
| 9. | Our original <u>dull</u> a) zest | ness had quite go b) idleness | one. c) laziness | d) darkness |
| 10. | | derable <u>old</u> langu b) ancient | age c) traditional | d) latest |
| 11. | | ect expansion of 0 d for Purchase tic Product | GDP b) Grass Domest d) Great Domest | |
| 12. | a) Tamilnadu Pu b) Tamilnadu Na c) Tamilnadu Pu | correct expansion Iblic Service Com Itional People Ser pil service Commi pil science comm | mission vice Commission ission | LEGE |
| 13. | a) Indian Airforc | ect expansion of I e service ture service | b) Indian Admin | istrative service |
| 14. | | d with the correct b) government | | d) goverment |
| 15. | | d with the correct b) vocablery | | d) voceblory |
| 16. | Choose the corre a)weekend | ect BritishEnglish b) holiday | equivalent for the c) tour | e American English word "vacation" d) leave |
| 17. | a) The went to t | the market | is of the pattern b) I finished the d) The news ma | |
| Fill | in the blanks | with modal a | uxiliaries | |
| 19. | I tried to climb u | | not. (could) | uestions.(could/must) |
| For | m two deriva | tives by addin | g prefixes and | d suffixes. |
| 21. | a) manage - ma r c) decent - inde | nagemnet b) obe cent d) spoo | y - disobey on - Spoonful | |
| Fill | in the blank v | with the most | suitable prep | ositional phrase. |
| 22. | Rair a) In favour of | n, takes an Umbre b) In case of | lla. c) On behalf of | d) log |
| 23. | What is the blen a) Lady blog | nded word of web b) blog | + log . c) vlog | d) log |
| 24. | What is the blen a) brunch | nded word of brea b) munch | kfast +lunch c)nibble | d)food |
| | | | | |

| Fill | in the blanks with suitable | articles or det | erminers | |
|--------------------------|--|--|-----------------------|-----------------|
| 26. 27. 28. | I am eldest in my family(th There are only chocolat Mother is honest wome Can you get me butter? Monisha has films in her be | tes left for you (fe an. (an) (the / some) | w) | |
| Fill | in with suitable homophon | es | | |
| 31. | Plain- plane Wait - weight Grown- groan | | | |
| | in the blanks with suitable | preposition. | | |
| 33. 34. 35. 36. | These two guys are selected sort the teacher is explaining sort We have to leave this place She is dancing him, a dant The movie starts at 3 the aft | _ the national ga me health disease they reach here. ce partner (with) | e (about) (before) | ECK |
| Fill | in the blanks with suitable | conjunctions | , 6 | |
| 39. | I am very tired I have been I am not angry anything I fe We will get there you do (a | eel a little surprise | because) ed (if) | |
| Ch | oose the correct combinatio | on of the comp | oound words | |
| 42. | Partly –full | c) adverb+ noun b) adjective+ no | | c) adverb+ noun |
| Ch | oose the correct question ta | ng | | |
| | She has got a lot of books ? a) doesn't she b) hasn't she Let's watch a film ? | | | |
| | a) shall we b) don't we | c) do we | d) don't we | |
| 46. 47. | Itch the phrasal verb with the Turn away - to stop (reject) Went over - reject (visit) Put out - visit (to stop) | neir meanings | | |
| Ch | oose the correct meaning fo | or the given id | ioms | |
| 49. | Keep at bay a) keep at the sea shore c) keep at a distance | b) keep in mind d) keep thinking | , about somethir | ng |
| 50. | at the top of the hat a) as soon as it was spoken c)done in an instant | b) Done easily , d) after somethi | without any prep | paration |

MATHEMATICS

CHOOSE THE CORRECT ANSWER

| 1. | If adj (adj A) = | $= A ^9$, then the order of the | square matrix A is | |
|-----|---|--|--|--|
| | a) 3 | b) 4 | c) 2 | d) 5 |
| 2. | If A ^T A ⁻¹ is symm | etric, then $A^2 = $ | c) A ^T | d) (A ⁻¹) |
| 2 | | | | u)(A) |
| 3. | a) Inconsistent |) then the system of linear | b) Consistent | |
| | c) Consistent a | nd infinitely many solutions | d) None | 4 |
| 4. | If Z =1, then the | ne value of $\frac{1+Z}{1+z}$ is | | , GV |
| | a)z | b)ž | c) 1/z | d) 1 |
| 5. | If $ z - \frac{3}{5} $ then the | ne least value of Z is | | Y |
| | a)1 | b) 2 | c) 3 | d) 5 |
| 6. | The product of | all four values of $(\cos \frac{\pi}{3} + i\sin \frac{\pi}{3})$ | $(n\frac{\pi}{3})^{\frac{3}{4}}$ is | |
| | a)-2 | b)-1 | c) 1 | d) 2 |
| 7. | A polynomial ed | quation in X of degree n alw | | |
| | a) n distinct roo | | n imaginary roots d) atm | |
| 8. | | | zeros if and only if k satisfie | |
| | a). k ≤ 6 | ~1~ | c) k >6 | d) k ≥6 |
| 9. | The domain of t | the function defined by f(x) b) [-1,1] | $=\sin^{-1}\sqrt{x}-1$ is c) [0,1] | d) [-1,0] |
| | 1900.00 Ad | 16 | c, [0,1] | ۵/ [-1,0] |
| 10. | | $-1(\frac{2}{9})$ is equal to | 1 | |
| | $a)\frac{1}{2}cos^{-1}(\frac{1}{5})$ k | $0)\frac{1}{2}sin^{-1}(\frac{3}{5})$ c) $\frac{1}{2}tan^{-1}(\frac{3}{5})$ | $d)tan^{-1}(\tfrac{1}{2})$ | |
| 11. | If $sin^{-1}x + cot^{-1}$ | $-1\frac{1}{2} = \frac{\pi}{2}$, then x is equal to _ | | |
| | | b) 1/E | c) 2 | $d)\frac{\sqrt{3}}{2}$ |
| 10 | 4 | . 43 | 00 with F1 (3,0) and F2 (-3,0) | |
| 12. | | politi oli 107 + 231 - 40 | 00 With F1 (3,0) and F2 (-3,0) | , then PP1+PP2 is |
| | a)8 | b) 6 | c) 10 | d) 12 |
| 13. | The area of the | quadrilateral formed with | the foci of the hyperbolas $\frac{x^2}{a^2}$ | $-\frac{y^2}{h^2} = 1$ and $\frac{x^2}{a^2}$ |
| | $\frac{y^2}{h^2} = -1$ is | | u | Б |
| | a)4(a^2+b^2) | | c) (a^2+b^2) | $d)\frac{1}{2}(a^2+b^2)$ |
| 14. | The area of the | largest rectangle inscribed | in an ellipse $\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$ is | |

a) 2ab

b)ab

| 15. | If \vec{a} and \vec{b} are p a) 2 | arallel vectors, then $[\vec{a}, \overrightarrow{c}, \vec{b}]$ | b] is equal to c) 1 | d) 0 |
|-----|--|---|---|--|
| 16. | If $\vec{a}.\vec{b} = \vec{b}.\vec{c} = \vec{c}.\vec{b}$ a) $ \vec{a} \vec{b} \vec{c} $ | = 0, then the value of $ \vec{a} $, b) $\frac{1}{3} \vec{a} \vec{b} \vec{c} $ | <i>b</i> ̄, <i>c</i> ̄] is c) 1 | d) -1 |
| 17. | and $\vec{b}.\vec{c} \neq 0$, th | en \vec{a} and \vec{c} are | $ec{b}$, $ec{c}$ are any three vectors s | uch that \overrightarrow{a} . \overrightarrow{b} $ eq$ 0 |
| | a) Perpendicula c) Inclined at ar | | b) Parallel d) Inclined at angle $\pi/6$ | 4 |
| 18. | | g \vec{b} and \vec{c} is | a vector perpendicular to \vec{a} b) -17 $\vec{\imath}$ +21 \vec{j} -123 \vec{k} d) -17 $\vec{\imath}$ -21 \vec{j} - 97 \vec{k} | and lies in the |
| 19. | | the curve y ² - xy +9 =0 is ve | | W |
| | | b) $y=\pm\sqrt{3}$ | c) $y = \frac{1}{2}$ | d) y= ± 3 |
| 20. | One of the close a) (2,0) | est points on the curve x^2 - b) ($\sqrt{5}$,1) | $y^2 = 4$ to the point (6, 0) is _ c)(3, $\sqrt{5}$) | d) (V13, - V3) |
| 21. | The number giv | en by the mean theorem f | or the function $\frac{1}{X}$, $X \in [1, 9]$ | is |
| | a)2 | b) 2.5 | c) 3 | d) 3.5 |
| 22. | The maximum p | product of two positive nur | mbers, when their sum of th | ne square is 200, |
| | Et . | b) 25v7 | c) 28 | d) 24v14 |
| 23. | If U (x,y) = e^{x^2+3} | $\frac{\partial u}{\partial x}$ is equal to | · | |
| | a). $e^{x^2+y^2}$ | | c) <i>x</i> ² u | d)y²u |
| 24. | If W $(x,y) = x^y, x$ | >0, then $\frac{\partial w}{\partial x}$ is equal to _ b) ylog x | HOIL DEL LEIS | |
| | a)x ^y logx | b) ylog x | c)yx ^{y-1} | d) xlog y |
| 25. | | +zx, then f_X - f_Z is equal to | | |
| | a)z-x | b)y-z c) x-z | d) y-x | |
| 26. | The area betwe $a)^{\frac{2}{3}}$ | en $y^2 = 4x$ and its latus rect | cum is c) 8/2 | d) ⁵ / ₂ |
| | 3 | D/-3 | -73 | 3 |
| 27. | | 3 | -73 | 3 |
| 27. | | then 'n' is b) 5 | c) 8 d) 9 | 3 |
| | If $\frac{\Gamma(n+2)}{\Gamma(n)} = 90$ ta) 10 | then 'n' is | c) 8 d) 9 | 3 |

| 29. | . The solution of | $\frac{dy}{dx}$ + p(x)y= 0 is | _x | |
|----------|---|---|--|-------------------------|
| | a)A. y=c $e^{\int p dx}$ | | b)y=c $e^{-\int p dx}$ | |
| | c) $x = ce^{-\int pdy}$ | | d) x=ce∫pdy | |
| 30. | . If the solution | of the differential equation | $\frac{dy}{dx} = \frac{ax+3}{2y+f}$ represents a c | ircle, then the |
| | value of 'a' is _ a) 2 | b) -2 | c) 1 | d) -1 |
| 31. | . A random varia deviation of X i | | oution with n=25 and p=0.8 | then the standard |
| | a) 6 | b) 4 | c) 3 | d) 2 |
| 32. | . If P{x=0}= 1-P{> | x=1}. If E[x]= 3 var (x) then p | o{x=0} | J* |
| | a) 2/3 | b) 2/5 | c)1/5 | d) 1/3 |
| 33. | . The operation | * defined by $a*b = \frac{ab}{}$ is no | ot a binary operation on | |
| 2007-000 | a)Q+ | b) Z | c) R | d) C |
| 24 | 5/ 3/ | ne inverse of the statement | / - | -, |
| 54. | a) (p^q)→ (pv | | b)¬ (pvq) →(p ^q) | |
| | | →(¬p ^¬q) | d) (¬pv¬q) →(¬pv¬q) | |
| | | | | |
| 35. | . A= $[aij]_{m \times n}$ is | a square matrix if b) m>n | _! | |
| | a)m <n< td=""><td>b) m>n</td><td>c)m=n</td><td>d) none of these</td></n<> | b) m>n | c)m=n | d) none of these |
| 36. | Given $A = \begin{pmatrix} 1 \\ 1 \end{pmatrix}$ | -2 7) then A(adj A) = | | |
| | (1 0) | h 1 (1 0) | | |
| | a) $\begin{pmatrix} 1 & 0 \\ 0 & 1 \end{pmatrix}$ c) $\frac{1}{3}\begin{pmatrix} 1 & 0 \\ 0 & 1 \end{pmatrix}$ | $\frac{1}{17}\begin{pmatrix} 0 & 1 \end{pmatrix}$ | | |
| | $c)\frac{1}{3}\begin{pmatrix} 1 & 0 \\ 0 & 1 \end{pmatrix}$ | $d)\frac{1}{-3}\begin{pmatrix} 1 & 0 \\ 0 & 1 \end{pmatrix}$ | | |
| 37 | $(\frac{1-i}{2})^{106} = 3 \pm ib \pm 1$ | hen (a, b) is | | |
| | -1/2 11 | b) (1 0) | c) (0,1) | d) (-1,2) |
| 20 | J(2, 1) | c · 13 · 14 · · 15 · · 16 · | c) (0,1) | G) (1,2) |
| 38. | a) 1 | of i ¹³ +i ¹⁴ +i ¹⁵ +i ¹⁶ is b) -1 | | d) -i |
| | | | | G) . |
| 39. | The vertex of t a)(6,-1) | he parabola x ² +12x-9y=0 is b)(-6,4) | c) (6.4) | d) (-6,-4) |
| 40 | Participants participants | | , , , , | -)(-)-) |
| 40. | _ | y of the ellipse $9x^2 + 4y^2 = 36$ | | ./ F |
| | a) $\sqrt{\frac{5}{3}}$ | b) $\sqrt{\frac{3}{5}}$ | c) $\frac{\sqrt{3}}{5}$ | d) $\frac{\sqrt{5}}{3}$ |
| 41 | The gradient of | f the curve y =-2x ³ +3x+5at > | v=2 is | |
| 71. | a)-20 | b) 27 | c) -16 | d) -21 |
| 42 | The rate of cha | inge of area A of a circle of | radius r is | DOMO PERSON |
| 12. | a)2πr | b) $2\pi r \frac{dr}{dr}$ | c) $\pi r^2 \frac{dr}{dt}$ | $d)\pi \frac{dr}{dt}$ |
| | -,2.0 | - / d t | dt | dt |
| | | | | |

and

| UL | IKA AKIS A | ND SCIENCE | COLLEGI | E _(f) | | iviadur |
|-----|---|--|--------------------------------|-------------------------------|--------------------------------------|--|
| 43 | The value of î | (ĵ*k) + (î *k).ĵ_ | | | | |
| 13. | a)1 | b)-1 | | c) 0 | | d) j |
| 44. | | s equal to b)ulogx | | c) u lo | gy | d)xy ^{x-1} |
| 45. | The area of the $X = \frac{\pi}{4}$ is | | by the gra | ph of y | = sin x and y | = cos x between X= 0 |
| | a)v2 | b)√2-1 | | c) 2V2 | 2-2 | d) 2√2+2 |
| 46. | If $u = \frac{1}{\sqrt{x^2 + y^2}}$, the | nen x $\frac{\partial u}{\partial x}$ + y $\frac{\partial u}{\partial y}$ | u is equa | l to | | |
| | $a)\frac{1}{2}u$ | | | c) $\frac{3}{2}$ u | | d)-u |
| 47. | Z ₁ = 4+5i, Z ₂ = - | 3+2i, then $\frac{z_1}{z_2}$ is _ | | | | CGV |
| | $a)\frac{2}{3} - \frac{22}{13}$ I | 3+2i, then $\frac{Z_1}{Z_2}$ is $-$ b) $\frac{-2}{13} + \frac{22}{13}$ i | | c) $\frac{-2}{13}$ | 23 13 | $d)\frac{2}{13} + \frac{22}{13}i$ |
| 48. | The degree of | the differential ed | quation 1 | $+\left(\frac{dy}{dx}\right)$ | $\int_{0}^{1/3} = \frac{d^2y}{dx^2}$ | , |
| | a) 1 | b) 2 | V | c)3 | | d) 6 |
| 49. | The conditiona a)pvq | l statement p→q b)pv~q | is equivale | ent to _ c) ~pv | rq . | d)p^q |
| 50. | a)Commutative | $\overline{b^2}$ on the real nure but not associate utative and associate. | ive | b) Ass | ociative but | not commutative tative nor associative. |
| | | 15 P | HYSI | CS | | |
| Cho | oose the best | 01 | | | | |
| 1. | (a) point charge | onfiguration proc (b) uniformly ch narged infinite pl | narged infi | nite line | <u>۽</u> | erical shell |
| 2. | Torque experie a) ρ × Β | nced by a dipole i | n a uniforn b) ρ × E | | | d) ρ× V |
| 3. | Capacitance of a) Q ² / V | a conductor is giv | en by C = b) E / V | | c) Q / V | d) none of these |
| 4. | identification. T a) Yellow – Gree | or of (47 ± 4.7) k (The color code sec en – Violet – Gold let – Orange – Sil | quence wil | | | fferent colors for its |
| | | w – Orange – Silv nge – Violet - Gold | | | | |

5. Joule's law of heating is H = _____.

b) V² I t c) VI

d) V² I² t

| 6. | Practical form of a) I ² R ² | Ohm's law state b)I² R | s that V = c) I/R | d) IR |
|-----|--|---|---|--|
| 7. | | g law, when R and is, the graph is | | f the H is taken along the y axis and |
| | a) straight line | b) parabola | c) circle | d) ellipse |
| 8. | | | s magnetic field a angle of dip at th (c) 60° | t a place is equal to the horizontal is place? (d) 90° |
| 9. | An ammeter is a a) current | n instrument use b) voltage | d to measure c) resistance | in an electrical circuit. d)charge |
| 10. | | nt changes from + of self-induction c (b) 0.4 H | | is, an emf of 8 V is induced in a coil. (d) 0.1 H |
| 11. | When a current | carrying loop is p | laced in a uniforn | n magnetic field, it experiences a |
| | a) momentum | b) torque | c) both a & b | d) none of these |
| 12. | | or is connected to num power at 50 (b) 0.5 μF | | pacitance C. The value of C in order (d) 5 μF |
| 13. | Unit of inductan | ce is | -< | |
| | a) ohm | b) tesla | c) henry | d) hertz |
| 14. | circuit to anothe | er without changi | ng its | orm electrical power from one d) none of these |
| 15. | An ac generator energy. | is an energy con | version device and | d it converts mechanical energy into |
| | a) potential | b) thermal | c) electrical | d)none of these |
| 16. | | | s the supply volta en its efficiency is (c) 0.12 | ge from 220 V to 11 V and increases ((d) 0.9 |
| 17. | | ng charge | | ng electromagnetic wave? ing with constant velocity particle |
| 18. | Electromagnetic a) air | waves move equ b) light | | fin vacuum. d) none of these |
| 19. | The frequency ra a) 10 ¹⁰ Hz to 10 ¹⁵ c) 10 ¹⁷ Hz to 10 ¹⁵ | | rom b) 10^{10} Hz to 10^1 d) 10^{17} Hz to 10^2 | |
| 20. | | b) non-mechan | electromagnetic ical waves accelerating char | |
| 21. | Which of the fol a) α – rays | lowing is an elect b) β – rays | romagnetic wave c) γ - rays | ? d) all of them |

| 22. | Fraunhofer lines are an example a) line emission b) line absorption | | |
|-----|--|---|---|
| 23. | Two equal and opposite charges a) electric quadrupole c) electric monopole | separated by a sm b) electric dipol d)none of these | e |
| 24. | is defined as the total dipo a)lonization c) Polarization | ole moment per u b)Magnetizatior d) Electrification | n |
| 25. | is a device used to store e a) capacitor b) Resistor | electric charge an c) Inductor | d electrical energy. d) Battery |
| 26. | A parallel plate capacitor stores a parallel plate capacitor and the d which is the quantity that will cha (a) capacitance (b) charge | istance between t | Itage V. Suppose the area of the the plates are each doubled then (d) energy density |
| 27. | filament kept inside a glass a) Quartz b) Tungsten | | d) none of these |
| 28. | Conversion of temperature differ as a) thermoelectric effect c) thomson effect | ences into electri b) seebeck effec d) peltier effect | cal voltage and vice versa is known |
| 29. | The speed of light in air was dete a) 2.99792×10^8 m s ^{-2.} c) 2.99792×10^{10} m s ^{-1.} | rmined as, V = b) 2.99792 × 10 d) 2.99792 × 10 | |
| 30. | For light incident from air on a ska of refraction is a) 30° b) 45° | ab of refractive in c) 60° | dex 2, the maximum possible angle d) 90° |
| 31. | Stars twinkle due to a) Reflection c) Refraction | b) Total internal d) Polarization | reflection |
| 32. | Plank's constant (h) = a) $6.625 \times 10^{-34} \text{ J s}$ c) $6.625 \times 10^{-34} \text{ J s}^{-1}$ | b) 6.625 × 10 ⁻³³ d) 6.625 × 10 ⁻³⁴ | |
| 33. | The first diffraction minimum due the wavelength of light used is a) 400 Å b) 500 Å | e to a single slit of c) 600 Å | f width 1.0×10⁻⁵ cm is at 30°. Then d) 700 Å |
| 34. | Light transmitted by the Nicol pri a) partially polarized c) plane polarized | sm is | b) unpolarised d) elliptically polarized |
| 35. | The SI unit of energy is a) joule b) degree | c) kelvin | d) celsius |
| 36. | The threshold wavelength for a m 3.313 eV is a) 4125Å b) 3750 Å | netal surface who c) 6000 Å | se photoelectric work function is d) 2555 Å |

| 37. | Emission of elect a) photoelectric c) thermionic | trons by the abso | orption of heat en b) field d) secondary | ergy is called emission. |
|-----|--|--|--|--|
| 38. | The ratio of the vin Li ⁺⁺ , He ⁺ and Ha)1: 2: 3 | | adiation emitted f | for the transition from n = 2 to n = 1 d) 4: 9: 36 |
| 39. | | | | n potential 122.4 V for n = 1 is (d) 4 |
| 40. | The charge of ca a) positive | thode rays partion b) negative | | d) not defined |
| 41. | The zener diode a) rectifier | | | d) voltage regulator |
| 42. | If the input to th | e NOT gate is A = b) 1000 | = 1011, its output c) 1100 | is d) 0011 |
| 43. | The barrier pote a) 0.7 V | ntial of a silicon b) 0.3V | diode is approxim c) 2.0 V | ately d) 2.2V |
| 44. | The materials us a) Aluminium an c) Copper and go | d silver | | |
| 45. | | | oretically propose ie c) Albert Eins | ed by tein d) Edward Purcell |
| 46. | The particle size as a) bulk material c) soft material | of ZnO material | is 30 nm. Based o b) nanomaterial d) magnetic mat | |
| 47. | The electrical eq | uivalent of the o b) FM | riginal informatio c) AM | n is called the signal. d) none of these |
| 48. | The transverse n (a) interference | | | (d) polarisation |
| 49. | are the at a) Isotones | oms of different | elements having t b) Isobars | the same number of neutrons. c) Isotopes d) Isomers |
| 50. | The value of de E a) 1.337 Å | Broglie's waveler b) 1.227 Å | ngth is c) 1.277 Å | d) 1.772 Å |
| | | СН | EMISTRY | Z. |
| 1. | Bauxite has the oa) Al ₂ O ₃ | | c) Fe ₂ O ₃ .2H ₂ O | d) None of these |
| 2. | Which one of the a) Magnetite | e following ores b) Hematite | is best concentrat c) Galena | ed by froth – floatation method? d) Cassiterite |
| 3. | recovered by a) Distillation | d and silver invo | lves leaching with b) Zone refining | cyanide ion. Silver is later |

| 4. | Considering Ellir alumina? a) Fe | ngham diagram, v b) Cu | vhich of the follow | wing metals can be used to reduce d) Zn |
|-----|---|--|--|---|
| 5. | a) contains replateb) gives up a procc) combines with | | water molecule | |
| 6. | The basic structor a) (SiO ₃) ²⁻ | ural unit of silicate b) (SiO ₄)²- | es is c) (SiO) ⁻ | d) (SiO_4) ⁴⁻ |
| 7. | | lowing is not sp² l b) graphene | hybridised? c) Fullerene | d) dry ice |
| 8. | The stability of + a) Al <ga< <t<br="" in="">c) In <tl<ga< al<="" td=""><td>-1 oxidation state </td><td>increasesin the s b) TI< In <ga< a<br="">d) Ga< In < AI <t< td=""><td></td></t<></ga<></td></tl<ga<></ga<> | -1 oxidation state | increasesin the s b) TI< In <ga< a<br="">d) Ga< In < AI <t< td=""><td></td></t<></ga<> | |
| 9. | | 28 - 111 Marie and Company of the Co | b) has low ionisa | ation enthalpy than oxygen n pπ–pπ bonds with itself |
| 10. | Among the follo a) Cl2 | wing, which is the b) F2 | e strongest oxidiz c) Br2 | ing agent? d) I2 |
| 11. | Which one of the halogen molecum a) Br ₂ > I ₂ > F ₂ > Cl ₂ c) I ₂ > Br ₂ > Cl ₂ > F ₂ | les? | s is correct for the b) F ₂ > Cl ₂ > Br ₂ > I d) Cl ₂ > Br ₂ > F ₂ > I | e bond dissociation enthalpy of |
| 12. | | wing the correct of HClO ₃ < HClO ₄ < HClO ₂ <hclo< td=""><td></td><td></td></hclo<> | | |
| 13. | In acid medium, a) oxalate | potassium perma b) Carbon dioxid | anganate oxidizes d e c) acetate | |
| 14. | The most comm a) +2 | on oxidation state b) +3 | e of actinoids is c) +4 | d) +6 |
| 15. | a) La(OH) ₃ is less b) In lanthanoid c) La is actually a | | H)_₃ s of Ln³+ ions dec nsition metal seri | reases es rather than lanthanoid series inthanoid contraction |
| 16. | A magnetic mon a)TiCl ₄ | nent of 1.73BM w b)[CoCl ₆] ⁴ | vill be shown by o c) [Cu(NH ₃) ₄] ²⁺ | one among the following d) [Ni(CN) ₄] ²⁻ |
| 17. | Crystal field stab a)-0.6 $\Delta_{\rm o}$ | oilization energy fo | or high spin d⁵ oc c) 2(P-Δ₀) | tahedral complex is d) $2(P+\Delta_0)$ |
| 18. | a) [Fe(CH, -CH(N | ethane-1,2-diamir H ₂) ₂) ₃](PO ₄) ₃ CH ₂ -NH ₂) ₃] (PO ₄) ₂ | b) [Fe(H,N-CH, - | |

16

19. Fac-mer isomerism is shown by

| | a) [Co(en) ₃] ³⁺ c) [Co(NH ₃) ₃ (Cl) ₃ |] | b) [Co(NH ₃) ₄ (Cl) d) [Co(NH ₃) ₅ Cl]So | |
|-----|--|---|---|---|
| 20. | In calcium fluori | de, having the flu | orite structure th | e co ordination number of Ca²+ ion |
| | a) 4 and 2 | b) 6 and 6 | c) 8 and 4 | d) 4 and 8 |
| 21. | The ratio of close a) 1:1 | e packed atoms to b) 1:2 | o tetrahedral hole c) 2:1 | e in cubic packing is d) 1:4 |
| 22. | The vacant space a) 48% | e in bcc lattice un b) 23% | it cell is c) 32% | d) 26% |
| 23. | The fraction of to a) $[\pi/(4\sqrt{2})]$ | otal volume occu b) [π/6] | pied by the atom: c) $[π/4]$ | s in a simple cubic is d) [π/(3√2)] |
| 24. | reaction. It is be a) rate is propor b) rate is inverse | cause the tional to the surfa ly proportional to ndent of the surf | ace coverage o the surface cove | n at low pressure is a first order erage |
| 25. | The addition of a quantities? a) Enthalpy | | | on alters which of the following d) Internal energy |
| 26. | For a first order conversion in mi a) [3/2]log2 | | constant is 6.909 c) [3/2]log[3/4] | o min ⁻¹ . The time taken for 75% d) [2/3]log[4/3] |
| 27. | The rate constar a) First order | | 5.8 × 10 ⁻² s ⁻¹ The c) Second order | order of the reaction is d) Third order |
| 28. | Conjugate base t a) OH ⁻ and H ₂ FH ⁻ c) OH ⁻ and F ⁻ , res | | s H ₂ Oand HF are b) H ₂ O and F ⁻ , re d) H ₃ O ⁺ and H ₂ F, | |
| 29. | | lowing fluro com b) PF 3 | pounds is most lik c) CF ₄ | cely to behave as a Lewis base? d) SiF ₄ |
| 30. | Which of these i a) ${\bf BF_3}$ | s not likely to act b) PF ₃ | as Lewis base? c) CO | d) F- |
| 31. | | | ctron = 1.6x10 ⁻¹⁹ (| during electrolysis by a current of C) d) 7.48 x 10 ²³ |
| 32. | For the cell react The standard Gil a) -46.32 KJ mol c) 46.32 KJ mol | bbs energy (Δ, G∘ -1 | $(21^{\circ} (aq) \rightarrow 2Fe^{2+} (aq)$ of the cell reac b) -23.16 KJ moldon d)23.16 KJ moldon | |
| 33. | Zinc can be coate | ed on iron to pro | duce galvanized ir | on but the reverse is not possible. |

a) Zinc is lighter than iron

b) Zinc has lower melting point than iron

- c) Zinc has lower negative electrode potential than iron
- d) Zinc has higher negative electrode potential than iron
- 34. The most effective electrolyte for the coagulation of As, S, Sol is
 - a) NaCl

 - b) Ba(NO₃), c) K₃[Fe(CN)₆] d) Al₃(SO₄),
- 35. Collodion is a 4% solution of which one of the following compounds in alcohol ether mixture?
 - a) Nitroglycerine
- b) Cellulose acetate
- c) Glycoldinitrate
- d) Nitrocellulose
- 36. On which of the following properties does the coagulating power of an ion depend?
 - a) Both magnitude and sign of the charge on the ion.
 - b) Size of the ion alone
 - c) the magnitude of the charge on the ion alone
 - d) the sign of charge on the ion alone.
- 37. The correct IUPAC name of the compound
 - a) 4 chloro 2,3 dimethyl pentan -1-ol H₃C-
 - b) 2,3 dimethyl 4- chloropentan -1-ol
 - c) 2,3,4 trimethyl 4- chlorobutan -1-ol
 - d) 4-chloro-2,3, trimethylpentan 1-ol
- 38. Which of the following compounds on reaction with methyl magnesium bromide will give tertiary alcohol.
 - a) benzaldehyde
- b) propanoic acid
- c) methylpropanoate
- d) acetaldehyde
- 39. Isopropylbenzene on air oxidation in the presence of dilute acid gives
- a) C'H'COOH b) C'H'COCH' c) C'H'CO C'H' d) C'H'OH
 - $CH_3Br \xrightarrow{KCN} (A) \xrightarrow{H_3O^+} (B) \xrightarrow{PCI_5} (C)$

40. Product (c) is

- a) acetylchloride
- b) chloro acetic acid
- c) α- chlorocyanoethanoic acid d) none of these
- 41. Which one of the following reaction is an example of disproportionation reaction
 - a) Aldol condensation
- b) cannizaro reaction
- c) Benzoin condensation
- d) none of these
- 42. Carboxylic acids have higher boiling points than aldehydes, ketones and even alcohols of comparable molecular mass. It is due to their
 - a) more extensive association of carboxylic acid via van der Waals force of attraction
 - b) formation of carboxylate ion
 - c) formation of intramolecular H-bonding
 - d) formation of intermolecular H bonding
- 43. Which of the following amines does not undergo acetylation?
 - a) t-butylamine

b) ethylamine

c) diethylamine

- d) triethylamine
- 44. The method by which aniline cannot be prepared is
 - a) degradation of benzamide with Br₃/NaOH
 - b) potassium salt of phthalimide treated with chlorobenzene followed by hydrolysis with aqueous NaOH solution.

c) Hydrolysis of phenylcyanide with acidic solution

| | d) reduction of nitrobenzene by Sn/HCl. | | | | |
|-----|--|--|--|--|--|
| 45. | Ammonium salt of benzoic acid is heated strongly with P ₂ O ₅ and the product so formed is reduced and then treated with NaNO ₂ /HCl at low temperature. The final compound formed is a) Benzene diazonium chloride c) Phenol b) Benzyl alcohol d) Nitrosobenzene | | | | |
| 46. | 6. Which one given below is a non-reducing sugar? | | | d) Lactose. | |
| 47. | Among the follo a) 2-ethylalaning c) 2-hydroxyme | | amino acid is b) 2-methylglyci d) Tryptophan | ne | |
| 48. | The number of s a) 1 and 4 | sp ² and sp ³ hybrid b) 4 and 2 | ised carbon in fru c) 5 and 1 | uctose are respectively d) 1 and 5 | |
| 49. | Terylene is an ex a) polyamide | cample of b) polythene | c) polyester | d) polysaccharide | |
| 50. | A mixture of chl a) antiseptic | oroxylenol and te b) antipyretic | rpinecol acts as c) antibiotic | d) analgesic | |
| | | В | OTANY | 1 | |
| 1. | An eminent Indian embryologist is (a) S.R. Kashyap (b) P. Maheswari (c) M.S. Swaminathan (d) K.C. Mehta | | | | |
| 2. | Extra nuclear inheritance is a consequence of presence of genes in (a) Mitochondria and chloroplasts (b) Endoplasmic reticulum and mitochondria (c) Ribosomes and chloroplast (d) Lysosomes and ribosomes | | | | |
| 3. | An allohexaploid (a) Six different (c) Two copies o | genomes | | three different genomes copies of one genome | |
| 4. | Plasmids are (a) circular prote (c) tiny bacteria | ein molecules | (b) required by l | pacteria ance to antibiotics | |
| 5. | (b) Essential too | equired in genetic Is in genetic engi at cleave DNA at | neering | | |
| 6. | | espectively identif | 12 E.S. | | |

| /. | (a) Introduction (c) Hybridization | | (b) Selection (d) Mutation bree | - ding |
|-----|---|---|--|----------------------------------|
| 8. | Plants having sin | nilar genotypes p (b) haploid | oroduced by plant br (c) autopolyploid | reeding are called (d) genome |
| 9. | (b) Crossing bety (c) Crossing the | veen two genoty veen two F ₁ hybi F ₁ hybrid with a | rpes with recessive t rids double recessive ge rpes with dominant | notype |
| 10. | The genotype of | a plant showing | the dominant phen | otype can be determined by |
| | (a) Back cross | (b) Test cross | (c) Dihybrid cross | (d) Pedigree analysis |
| 11. | Incomplete linka (a) Drosophila | ge was reported (b) Maize | by Hutchinson in (c) Neurospora | (d) Lathyrusodoratus |
| 12. | (b) Non-sister ch | ntids of non-hom Fromatids of non- Fromatids of hon | s between_ nologous chromoson - homologous chrom nologous chromoso ous chromosomes | nosomes |
| 13. | At which stage of (a) Leptotene stage (b) Zygotene stage (c) Diplotene stage (d) Pachytene st | age of prophase I ge of prophase I ge of prophase I | 20, | dergo recombination process? |
| 14. | Mutation theory (a) T. H. Morgan (c) Alfred variety | 15 | y(b) Hugo de Vries (d) Erectiferm | |
| 15. | (b) capacity to g (c) capacity to ge | enerate genetica enerate a whole enerate hybrid pi | lly identical plants plant from any plan rotoplasts m diseased plants | nt cell / explant |
| 16. | (b) vegetative m | ultiplication of p ultiplication of p ultiplication of pl | lants by using micro- plants by using smal lants by using micros n of plants by using n | l explants |
| 17. | Vims free plants (a) Organ culture (c) Protoplast cu | 9 | rom (b) Meristem cultu (d) Cell suspension | |
| 18. | | | s of biological integri | |

| 19. | Solidifying agent used in plant tissue culture is (a) Nicotinic acid (b) Cobaltous chloride (c) EDTA (d) Agar |
|-----|--|
| 20. | Cryopreservation means it is a process to preserve plant cells, tissues or organs (a) at very low temperature by using ether (b) at very high temperature by using liquid nitrogen (c) at very low temperature of-196 by using liquid nitrogen (d) at very low temperature by using liquid nitrogen |
| 21. | Identify the group of scientists who developed the intergenic hybrid – the pomato. (a) Yamada et al. (b) Horsh et al. (c) Takebe et al. (d) Melchers et al. |
| 22. | Which one of the following condition favours callus induction? (a) Temperature of 25°C ± 5°C with 12 hours of photoperiod (b) Temperature of 25°C ± 2°C with 18 hours of photoperiod (c) Temperature of 25°C + 5°C with 14 hours of photoperiod (d) Temperature of 25°C ± 2°C with 16 hours of photoperiod |
| 23. | Protoplast are the cells devoid of (a) Cell wall (b) Cell membrane (c) Plasma membrane (d) both A and B |
| 24. | Which of the given plant produces cardiac glycosides? (a) Calotropis (b) Acacia (c) Nepenthes (d) Utricularia |
| 25. | A free living nitrogen fixing cyanobacterium which can also form symbiotic association with the water fem Azolla (a) Nostoc (b) Anabaena (c) Chlorella (d) Rhizobium |
| 26. | Pedogenesis refers to(a) Fossils (b) Water (c) Population (d) Soil |
| 27. | Mycorrhiza promotes plant growth by(a) Serving as a plant growth regulators (b) Absorbing inorganic ions from soil (c) Helping the plant in utilizing atmospheric nitrogen (d) Protecting the plant from infection |
| 28. | First cell of male gametophyte in angiosperm is (a) Microspore (b) Megaspore (c) Nucleus (d) Primary Endosperm Nucleus |
| 29. | Which Mendelian idea is represented by a cross in which the F ₁ generation resembles both the parents (a) Incomplete dominance (b) Law of dominance (c) Inheritance of one gene (d) Co-dominance |
| 30. | Which of the following one is used as Biosensors? (a) Electrophoresis (b) Bioreactors (c) Vectors (d) Electroporation |
| 31. | Green fluorescent protein (GFP) was isolated from (a) Aequorea victoria (b) Arabidopsis thaliana (c) Agrobacterium tumifaciens (d) Escherichia coli |

| 32. | Synseeds are developed by encap (a) Sodium chloride (c) Sodium alginate | osulating embryoids with (b) Potassium iodide (d) Potassium dichromate |
|-----|---|---|
| 33. | Dimethyl sulphoxide is a (a) Solidifying agent (c) Fusogenic agent | (b) Cryoprotectant (d) Stimulant |
| 34. | The term used to define the abilit (a) Pleuripotent (b) Totipotent | ry of a cell to generate entire individual is (c) Multipotent (d) Unipotent |
| 35. | Deforestation means (a) growing plants and trees in an (b) growing plants and trees in an (c) growing plants and trees in a p (d) removal of plants and trees | area where the forest is removed |
| 36. | Who is celebrated as Forest Man (a) Anand Mohan Chakrabarthy (c) JadavMolaiPayeng | |
| 37. | The ozone layer of is (a) Stratosphere (c) Troposphere | called bad ozone. (b) Mesosphere (d) Exosphere |
| 38. | Azolla is best suited biofertilizer for (a) Sugar cane cultivation (c) Wheat cultivation | or |
| 39. | The term green revolution was co (a) William S Gaud (c) Dr. B.P. Pal | oined by (b) M.S. Swaminathan (d) Dr. N.E. Borlaug |
| 40. | | ther of green revolution in India"? (b) Dr. M.S. Swaminathan (d) N.G.P. Rao |
| 41. | cancer? | nosphere can lead to an increased incidence of skin c) Nitrous oxide d) Ozone |
| 42. | The unit for measuring ozone thic | ckness |
| 43. | a) Joule b) Kilos is the total amount o a) Carbon foot print | c) Dobson d) Watt f greenhouse gases produced by human activated. b) Human foot print |
| | c) CO2 The thickness of the ozone colum | |
| | a) Chloroflurocarban INSAT3DR Satellites used in | b) Oxygen c) Flurocarbon d) CO |
| 43. | a) Earth observation c) Disaster management | b) Communication d) Weather forecasting |
| 46. | Tamarindusindica is indigenous to a) Tropical African region c) South America, Greece | b) South India, Sri Lanka d) India alone |

| 47. | New world species of cotton a) Gossipium arboretum c) Both a and b | b) G. herbaceum d) G.barbadense |
|-----|--|---|
| 48. | The only cereal that has originate a) Oryzasativa c) Triticumduram | ed and domesticated from the new world b) Triticumasetumn d) Zea mays |
| 49. | The very common rubber yielding a) Manihotesculenta c) Heveabenthamiana | g plant of Tamilnadu is b) Ficuselastica d) Heveabrasiliensis |
| 50. | India is the largest producer of a) Chilly b) Tamarind | c) Turmeric d) Pepper |
| | ZC | OOLOGY s are only males produced? |
| 1. | In which type of parthenogenesis a) Arrhenotoky b) Thelytoky | s are only males produced? c) Amphitoky d) Both a and b |
| 2. | The mode of sexual reproduction a) Formation of gametes c) Conjugation | in bacteria is by b) Endospore formation d) Zoospore formation |
| 3. | In which mode of reproduction va a) Asexual b) Parthenogene | |
| 4. | Which among the following anim a) frog b) shark | als exhibit ovoviviparity? c) sheep d) hen |
| 5. | The mature sperms are stored in a) Seminiferous tubules c) Epididymis | the b)Vas deferens d) Seminal vesicle. |
| 6. | The site of embryo implantation i a) Uterus c) Vagina | s the b)Peritoneal cavity d)Fallopian tube |
| 7. | Mammalian egg is a)Mesolecithal and non cleidoic c) Alecithal and non cleidoic | b)Microlecithal and non cleidoic d)Alecithal and cleidoic |
| 8. | The Androgen Binding Protein (Al a) Leydig cells b) Hypothalamu | BP) is produced by us c) Sertoli cells d) Pituitary gland |
| 9. | a) Inhibition of spermatogenesis b) Inhibition of ovulation c) Changes in cervical mucus imposperms. | monal contraceptive pills from the following airing its ability to allow passage and transport of rium to make it unsuitable for implantation |
| 10. | ABO blood group in man is contro a) Multiple alleles c) Sex linked genes | olled by b) Lethal genes d) Y-linked gene |

| 11. | Which of the following phenoty combination AxB? | pes in the progeny | are possible from the parental |
|-----|---|---|--|
| | a) A and B only c) AB only | b) A,B and AB or d) A,B, AB and (| (Nation |
| 12. | In an accident there is great loss group which blood can be safely a) O and Rh negative c) B and Rh negative | | |
| 13. | Down's syndrome is a genetic di chromosome number a) 20 b) 21 | isorder which is car c) 22 | used by the presence of an extra d)24 |
| 14. | Who is the founder of Modern I a) Mendel b) Darwin | 2004/00000 | nt? |
| 15. | DNA and RNA are similar with ro a) Thymine as a nitrogen base b) A single-stranded helix shape c) Nucleotide containing sugars d) The same sequence of nucleo | , nitrogen bases a | |
| 16. | The total number of nitrogenou a) 3.5 million b) 35000 | s bases in human g c) 35 million | genome is estimated to be about d) 3.1 billion |
| 17. | The first life on earth originated a) in air b) on land | c) in water | d) on mountain |
| 18. | Who published the book "Origina) Charles Darwin b) Lamarck | | ural Selection" in 1859? d) Hugo de Vries |
| 19. | Which of the following was the a) Theory of mutation c) Theory of inheritance of acqu | | lgo de Vries? b) Theory of natural Selection d) Germplasm theory |
| 20. | The wings of birds and butterflie a) Adaptive radiation c) divergent evolution | es is an example of b) convergent e d) variation | |
| 21. | A population will not exist in Ha a) Individuals mate selectively c) There is no migration | | mutations |
| 22. | Malaria caused by Plasmodium a) Air b) Contact | | ugh d d) mosquito bite |
| 23. | The sporozoite of the malarial pa) saliva of infected female And b) RBC of human suffering from c) Spleen of infected humans. d) Gut of female Anopheles mos | phelesmosquito malaria | n |
| 24. | The drug synthesised from Date a) Hallucinogen c)stimulant | ura is b) Depressant d) pain killer | |

| 2 | 5. | The Athlete's foo a) Bacteria | ot disease in hum b) Fungi | an is cau c) Virus | - 0.5 | d) Proto | zoan | | |
|---|----|---|--|----------------------------------|---------------------------|--------------------------|-----------------------------|-----------------------|----|
| 2 | 6. | Which of the foll a) Tularemia | lowing disease is b) Listeriosis | | | droplet nu d) Mum | | | |
| 2 | 7. | Paratope is an a) Antibody bind (b) Antibody bind (c) Antigen bind (d) Antigen bind | ding site on heav ing site on varial | y regions ole regio | S | | | | |
| 2 | 8. | AIDS virus has (a) Single strand (c) Single strande | | | | ided RNA ided DNA | | 4. | |
| 2 | 9. | Cell mediated im carried out by (a) B cells/T cells (c) T cells/B cells | | (b) Epit | v opes/ant bodies/a | tigens | unoral imn | nunity ismain | ly |
| 3 | 0. | B Cells are activa (a) Complement | 7.00 m 10 m | (c) Inte | rferon | (d) Antig | gen | | |
| 3 | 1. | B cells that prod (a) Memory cells | | | | ntibody a s (d) kille | | | |
| 3 | 2. | The most common isa) Soyameal | on substrate used | (| 5 | the prod | | thanol | |
| 3 | 3. | The purpose of ba) Reduce BOD c) Reduce sedim | oiological treatme | ent of wa b) Incre | stewate ase BOD | | | | |
| 3 | 4. | CO ₂ is not releas a) Alcoholic ferm c) Aerobic respir | nentation | | | 경기를 막는데 되었다. | te ferment pic respirati | ation on in plants | |
| 3 | 5. | The first clinical a) AIDS | | | | eatment o | of | | |
| 3 | 6. | PCR proceeds in a) Denaturation, b) Synthesis, And c) Annealing, Synd) Denaturation, | , Annealing, Synt nealing, Denatura nthesis, Denatura | t hesis ation ation | nedby te | emperatu | re, they are | in order of | |
| 3 | 7. | ELISA is mainly (a) Detection of n c) Selecting anim | nutations | ed traits | | ction of p | | esired traits | |
| 3 | 8. | GEAC stands for a) Genome Engir b) Ground Enviro c) Genetic Engin d) Genetic and E | onment Action Co | ommittee Commit | е | | | | |

| 120000 | | | | 710.00 | |
|--------|---|---|---|--|----------|
| 39. | a) Cloning by ge b) Cloning withou | ne transfer out the help of ga sue culture of sor | | wn as | |
| 40. | | | | perature are called d) Stenotherms | |
| 41. | Which of the fol a) Human | lowing is an r-spe b) Insects | cies c) Rhinoceros | d) Whale | |
| 42. | a) Stenothermal | n move from fresl b) Eurythermal d) Anadromous | n water to sea cal | led as | |
| 43. | Which one of tha) Sanctuaries c) Zoological pa | | t coming under in b) Natural parks d) Biosphere res | | |
| 44. | The organization a) WWF | n which published b) IUCN | I the red list of sp c) ZSI | ecies is d) UNEP | |
| 45. | Who introduced a) Edward Wilso c) Norman Myer | | ersity? b) Walter Roser d) Alice Norman | | |
| 46. | Which of the fol a) Tundra forest c) Taiga forest | | | gs of the planet earth? north east India forest | |
| 47. | Right to Clean W a) Article 21 | /ater is a fundam b) Article 12 | | the Indian Constitution d) Article 41 | |
| 48. | The 'thickness' of a) Sieverts units c) Melson units | of Stratospheric C | ozone layer is mea b) Dobson units d) Beaufort Scal | i | |
| 49. | Excess of fluorid a) Lung disease c) Fluorosis | e in drinking wat | er causes: b) Intestinal infe d) None of the a | | |
| 50. | As per 2017 stat a) USA | istics, the highest b) China | t per capita emitt c) Qatar | er of Carbon dioxide in the d) Saudi Arabia | world is |
| | I | BIOLOGY | BIO-ZO | OLOGY | |
| 1. | the options that given: i. Gametic fusi ii. Transfer of g iii. Reduction di | | sexual and asexu | production are given below ual reproduction from the o d) i & ii | |

- 2. Which of the following statements support the view that elaborate sexual reproductive process develops much later in the organic evolution?
 - Lower groups of organisms have simpler body design
 - ii. Asexual reproduction is common in lower groups
 - iii. Asexual reproduction is common in higher groups of organisms
 - iv. The high incidence of sexual reproduction is in angiosperms and vertebrates.
 - a) i, ii and iii
- b) i, iii and iv
- c) i, ii, and iv
- d) ii, iii and iv
- 3. Several hormones like hCG, hPL, oestrogen and progesterone are produced by
 - a) ovary
- b) placenta
- c) fallopian tube d) pituitary
- The testes in human are situated outside the abdominal cavity inside a pouch called scrotum. The purpose served is for
 - a) escaping any possible compression by the visceral organs.
 - b) providing more space for the growth of epididymis.
 - c) providing a secondary sexual feature for exhibiting the male sex
 - d) maintaining the scrotal temperature lower than internal body temperature
- 5. Assisted reproductive technology, IVF involves the transfer of
 - a) Ovum into the fallopian tube b) Zygote into the fallopian tube
 - c) Zygote into the uterus
- d) Embryo with 16 blastomeres into the fallopian tube
- 6. ABO blood groups in humans are controlled by the gene I. It has three alleles IA, IB and i. Since there are three different alleles, six different genotypes are possible. How many phenotypes can occur?
 - a) Three
- b) One
- c) Four
- d) Two
- 7. A gene showing codominance has:
 - a) Alleles tightly linked on the same chromosome
 - b) Alleles that are recessive to each other
 - c) Both alleles independently expressed in the heterozygote
 - d) One allele dominant on the other
- 8. The association of histone H1 with a nucleosome indicates
 - a) Transcription is occurring
 - b) DNA replication is occurring
 - c) The DNA is condensed into chromatin fibre
 - d) The DNA double helix is exposed
- 9. The Okazaki fragments in DNA chain growth
 - a) Result in transcription
 - b) Polymerise in the 3' to 5' direction and forms replication fork
 - c) Prove semi-conservative nature of DNA replication
 - d) Polymerises in the 5' to 3'direction and explain 3' to 5' DNA replication
- 10. A person suffering from a disease caused by Plasmodium, experiences recurring chill and fever at the time when?
 - a) The sporozoites released from RBC's are being rapidly killed and broken down inside spleen
 - b) The trophozoites reach maximum growth and give out certain toxins.
 - c) The parasite after its rapid multiplication inside RBC's reptures them, releasing the stage to enter fresh RBC's
 - d) The microgametocytes and megagametocytes are being destroyed by the WBC's

- 11. Where will you look for the sporozoites of the material parasite?
 - a) Red blood corpuscles of humans suffering from malaria
 - b) Spleen of infected humans
 - c) Salivary glands of freshy moulted female anopheles mosquito
 - d) Saliva of infected female anopheles mosquito
- 12. At which stager HIV infection does one usually show symptoms of AIDS?
 - a) Within 15 days of sexual contact with an infected person
 - b) When the infected retro virus enters host cells
 - c) When HIV damages large number of helper T- Lymphocytes
 - d) When the viral DNA is produced by reverse transcriptase
- 13. Which of the following is correct regarding AIDS causative agent HIV?
 - a) HIV is enveloped virus that contains two identical molecules of single-stranded RNA and two molecules of reverse transcriptase
 - b) HIV is unenveloped retrovirus
 - c) HIV does not escape but attacks the acquired immune response
 - d) HIV is enveloped virus containing one molecule of single stranded RNA and one molecule of reverse transcriptase
- 14. The active form of Entamoeba histolytica feeds upon:
 - a) Erythrocytes, mucosa and submucosa of colon
 - b) Mucosa and submucosa colon only
 - c) Food in intestine
 - d) Blood only
- 15. When domestic sewage mixes with river water
 - a) Small animals like rat will die after drinking river water
 - b) The increased microbial activity releases micronutrients such as iron.
 - c) The increased microbial activity uses up dissolved oxygen
 - d) The river water is still suitable for drinking as impurities are only about 0.1 per cent
- 16. Select the correct statement from the following
 - a) Biogas is produced by the activity of aerobic bacteria on animal waste b)

Methanobacterium is an aerobic bacterium found in rumen of cattle

- c) Biogas, commonly called gobar gas, is pure methane
- d) Activated sludge-sediment in settlement tank of sewage treatment plant is a right source of aerobic bacteria
- 17. During sewage treatment, biogas are produced which includes
 - a) Methane, hydrogen sulphide, carbon dioxide
 - b) Methane, oxygen, hydrogen sulphide
 - c) Hydrogen sulphide, methane, sulphur dioxide
 - d) Hydrogen sulphide, nitrogen, methane
- The colonies of recombinant bacteria appear white in contrast to blue colonies of nonrecombinant bacteria because of
 - a) Non-recombinant bacteria containing β-galactosidase.
 - b) Insertional inactivation of α-galactosidase in nonrecombinant bacteria.
 - c) Insertional inactivation of α-galactosidase in recombinant bacteria.
 - d) Inactivation of glycosidase enzyme in recombinant bacteria

- 19. Stirred tank bioreactors have been designed for
 - a) Addition of preservatives of the product
 - b) Purification of the product
 - c) Ensuring anaerobic conditions in the culture vessel
 - d) Availability of oxygen throughout the process
- For transformation, micro-particles coated with DNA to be bombarded with gene gun
 are made up of
 - a) Silver or Platinum
- b) Platinum or Zinc
- c) Silicon or Platinum
- d) Gold or Tungsten
- 21. Which one of the following is most appropriately defined?
 - a) Host is an organism which provides food to another organism.
 - b) Amensalism is a relationship in which one species is benefited whereas the other is unaffected.
 - c) Predator is an organism that catches and kills other organism for food.
 - d) Parasite is an organism which always lives inside the body of other organism and may kill it.
- 22. Gause's principle of competitive exclusion states that:
 - a) More abundant species will exclude the less abundant species through competition
 - b) Competition for the same resources excludes species having different food preferences
 - No two species can occupy the same niche indefinitely for the same limiting resources
 - d) Larger organisms exclude smaller ones through competition
- 23. Sacred groves are especially useful in
 - a) Preventing soil erosion
 - b) Year-round flow of water in rivers
 - c) Conserving rare and threatened species
 - d) Generating environmental awareness
- 24. Measuring Biochemical Oxygen Demand (BOD) is a method used for
 - a) Estimating the amount of organic matter in sewage water.
 - b) Working out the efficiency of oil driven automobile engines.
 - c) Measuring the activity of saccharomyces cerevisiae in producing curd on a commercial scales
 - d) Working out the efficiency of RBCs about their capacity to carry oxygen
- 25. A lake which is rich in organic waste may result in
 - a) Drying of the lake due to algal bloom
 - b) Increased population of fish due to lots of nutrients
 - c) Mortality of fish due to lack of oxygen
 - d) Increases population of aquatic organisms due to minerals

BIO BOTANY

- 26. Advantage of cleistogamy
 - a) Higher genetic variability
- b) More vigorous offspring
- c) No dependence on pollinators d) Vivipary
- 27. Geitonogamy involves
 - a) Fertilization of a flower by pollen from another flower of a same plant
 - b) Fertilization of a flower by pollen of the same flower
 - c) Fertilization of a flower by pollen from a flower of another plant in a same population
 - d) Fertilization of a flower by the pollen from a flower of another plant belongs to distant population.
- 28. Pollination in water hyacinth and water lily is brought about by the agency of
 - a) insects or wind

b) birds

c) bats

- d) water
- If a homozygous red flowered plant is crossed with a homozygous white flowered plant, then the offsprings will be
 - a) Half-white flowered
- b) Half-red flowered
- c) All white flowered
- d) All red flowered
- 30. Which of the following conditions represents a case of co-dominant genes?
 - a) A gene expresses itself, suppressing the phenotypic effect of its alleles
 - b) Genes that are similar in phenotypic effect when present separately, but when together interact to produce a different trait
 - c) Alleles both of which interact to produce a trait which may or may not resemble either of the parental type
 - d) Alleles, each of which produces an independent effect in a heterozygous condition.
- 31. The distance between two genes in a chromosome is measured in cross-over units which represent
 - a) Ratio of crossing over between them
 - b) Percentage of crossing over between them
 - c) Number of crossing over between them
 - d) None of these
- 32. Genetic map is one that
 - a) Establish sites of the genes on a chromosome
 - b) Establishes the various stages in gene evolution
 - c) Shows the stages during the cell division
 - d) Shows the distribution of various species in a region
- 33. Which of the following statement is not true of two genes that show 50% recombination frequency?
 - a) The genes may be on different chromosomes
 - b) The genes are tightly linked
 - c) The genes show independent assortment
 - d) If the genes are present on the same chromosome, they undergo more than one crossover in every meiosis.

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| 34. | Crossing over that results in genetic recombination in higher organisms occurs between a) Non-sister chromatids of a bivalent b) Two daughter nuclei | | |
| | c) Two different bivalents | | d) Sister chromatids of bivalents |
| 35. | What is the criterion for DNA frag electrophoresis? a) The smaller the fragment size, b) Positively charged fragments of c) Negatively charged fragments of d) The larger the fragment size, the | the farther it mo nove to farther er do not move. | oves. nd. |
| 36. | Which of the following is not requavailable at present? a) Restriction enzymes c) Polymerase chain reaction | uired for any of th b) DNA-DNA hyb d) Zinc finger ar | / A Y |
| 37. | Biolistics (gene-gun) is suitable for a) disarming pathogen vectors b) transformation of plant cells c) constructing recombinant DNA by joining with vectors d) DNA fingerprinting. | | |
| 38. | Ligase is used for a) Joining of two DNA fragments c) DNA polymerase reaction | b) Separating DI d) All of these | NA |
| 39. | Which one of the following palind about the middle by some particular a) 5'CGTTCG3' 3'ATCGTA 5' c) 5' GAATTC 3' 3' CTTAAG 5' | | nzyme? 3' CTACTA 5' |
| 40. | An association of individuals of di functional interactions is a) Population c) Biotic community | fferent species liv b) Ecological nic d) Ecosystem | ving in the same habitat and having he |
| 41. | Which one of the following animal same ecosystem at the same time a) Goat b) Frog | | ore than one trophic levels in the |
| 42. | If we uncover half of the forest comost and the first? | 40-5300058400444440000000000000000000000000 | |
| | a) Some species will be extinct c)Energy crisis will occur | | d ecological imbalance will rise up sts will maintain this imbalance. |
| 43. | Which of the following are most senvironment? a) Algae b)Fungi | suitable indicators | s of SO2 pollution in the d)Conifers |
| 44. | Which one of the following is a w a) Most of the forests have been b)Ozone in upper part of atmosp c)Greenhouse effect is a natural p phenomenon in freshwater bodie | rong statement? lost in tropical are here is harmful t bhenomenon. | eas. |

Madurai

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| 45. | 15. Which of the following is not one of the prime health risks associated with great radiations through the atmosphere due to depletion of stratospheric ozone? a) Damage to eyes b)Increased liver cancer | | | |
| | a) Damage to eyes c)Increased skin cancer d. | d)Reduced Imm | | |
| 46. | Most animals that live in deep oc a) Detritivores c) Secondary consumers | eanic waters are b) Primary consi d) Tertiary consi | | |
| 47. | Selection is a method of a) cytology c) plant breeding | b) plant phycolo d) genetics | gy | |
| 48. | Breeding of crops with high levels a) somatic hybridization c) bio magnification | of minerals, vita b) biofortificatio d) micro propag | on | s is called |
| | . Wonder wheat is a new wheat variety developed by a) Mexico's International Wheat and Maize improvement centre b) Indian National Botanical Research Institute c) Australian crop Improvement centre d) African Crop Improvement centre | | | |
| 50. | In genetic engineering, gene of in Consider the following four agent about which one or more of these i. A bacterium ii. Plasmid iii. Plasmodium iv. Bacteriophage a) 1 and 4 only b) 2 and 4 only | s (1-4) in this reg e can be used as v | ard and select the | |
| | ACC | OUNTAN | $\mathbb{C}\mathbf{Y}$ | |
| 1. | | maintained by | 11.5 | |
| | a) company c) Small sized sole trader busines | ss | b) Governmentd) Joint stock co | mpany |
| 2. | The excess of assets over liabilities a) Loss b) Cash | es is c) Capital | d) Profit | |
| 3. | Receipts and payments account is a) Nominal A/C b) Personal A/C | | c) Real A/C | d) None of these |
| 4. | Closing capital +drawings – additi a) Profit/loss c) Surplus/deficit | onal capital- oper b) Income/exper d) None of thes | nditure | · |
| 5. | Donations received for a specific a) Revenue receipt c) Revenue expenditure | purpose is b) Capital recei d) Capital exper | • 100.00 | |
| 6. | Subscription due but not received a) An asset b) A Liability | d for the current y c) An expense | | |

| 7. | a) Nominal A/c b) Real A/c | | d) None of these | |
|-----|--|--|---|----------|
| 8. | Income and expenditure account a) Profit or loss c) Surplus or deficit | t is prepared to fir b) Cash and ban d) Financial posi | k balance | |
| 9. | Non-profit organizations are mar a) Mangers b) Government | | d) All of the above | |
| 10. | The goodwill or reputation earne | ed by non-profit o | rganizations depends on the b | oasis of |
| | a) Investment made c) Contribution to the welfare of | f society | b) Subscription received d) Donations received | |
| 11. | In the absence of a partnership a partners in Equal ratio b) Capital ratio | | of the firm will be shared by t d) None of these | :he |
| 12. | What should be the minimum m a) 2 b) 7 c) 10 | ember of person t d) 20 | to form partnership? | |
| 13. | Which one of the following is sho a) Office expenses c) Partners salary | own in profit and l b) Salary of staff d) Interest on ba | | |
| 14. | As per Indian partnership act, 19 partners is a) 8% per annum c) 5% per annum | 32 the rate of inte b) 12% per annu d) 6% per annui | ım | ed by |
| 15. | Super profit is the difference between a) Capital employed and average profit b) Assets and liability c) Average and normal profit d) Current year's profit and average profit | | | |
| 16. | Goodwill is defined as a) Intangible asset d) Liquid asset | b) Fictitious as | set c) Current a | asset |
| 17. | The average rate of return of sim a) Average profit c) Gaining ratio | nilar concerns is co b) Normal rate of d) None of these | of return | |
| 18. | If the old profit sharing ratio is m difference is called a) Capital ratio c) Gaining ratio | b) Sacrificing rad d) None of these | tio | er, the |
| 19. | A new partner may be admitted a) With the consent of any one b) With the consent of majority c) With the consent of all old of d) With the consent of 2/3 rd of | partner of partners partners | | |

| 20. | When shares are issued for purch a) Vendor's A/C c) Share capital A/C | ase of asset, the amount should be credited to b) Sundry's assets A/C d) Bank A/C | |
|-----|--|--|--|
| 21. | Sacrificing ratio is ascertained at a Admission of new partner c) Retirement of partner | the time of b) Death of partner d) None of these | |
| 22. | Excess of credit side over debit side a) Profit b) Loss | de of revaluation is c) Gain d) Expenses | |
| 23. | is called | an be called up only on the winding up of a company up capital c) Capital reserve d) Reserve capital | |
| 24. | The amount received over and ab a) Securities premium account c) Share capital account | oove the par value is credited to b) Calls in advance account d) Forfeited shares account | |
| 25. | Legacy is a a) Revenue expenditure c) Revenue receipt | b) Capital expenditure d) Capital receipt | |
| 26. | A, B and C are partners sharing pr sharing ratio between A and B wi a) 4: 3 b) 3:4 | rofits in the ratio of 4: 2: 3 C retires. The new profit II be c) 2:1 d)1:2 | |
| 27. | on revaluation, the increase in lia a) Gain c) Profit | bilities leads to b) Loss d) None of these | |
| 28. | If the final amount due to retiring a) Bank A/c c) Retiring partner's loan A/c | partner is not paid immediately, it is transferred to b) Retiring partner A/c d) other partner's capital A/c | |
| 29. | At the time of retirement of a partner, determination of getting gaining ratio required a) To transfer revaluation profit or loss b) To distribute accumulated profits and losses c) To adjust goodwill d) None of these | | |
| 30. | A partner who retires from the fi a) Outgoing partner c) Death of a partner | rm is called as b) Admitted partner d) None of these | |
| 31. | When shares are issued for purch a) Vendor's A/c c) Share capital A/c | ase of assets, the amount should be credited to b) Sundry assets A/c d) Bank A/c | |
| 32. | Which one of the share capital ca called: a) Authorised capital c) Capital reserve | n be called up only on the winding up of company is b) Called up capital d) Reserve capital | |

| 33. | If a share of Rs. 10 on which Rs. 8 has been paid up is forfeited. Minimum reissue price is | | | |
|-----|---|--|---|--|
| | a) Rs.10 per share c) Rs. 5 per share | b) Rs. 8 per sha d) Rs. 2 per sha | | |
| 34. | (5) | were reissued at Rs. | for non-payment of final call of Rs. 9 per share. What amount will be d) Rs.1,000 | |
| 35. | The amount received over a a) Securities premium accounce) Share capital account | nd above the par valu | ue is credited to ince account | |
| 36. | Balance sheet provides infor a) Over a period of time c) For a period of time | rmation about the fin b) As on a part d)For the accou | | |
| 37. | Which one of the following t relating to several years are a) Cash flow statement c) Comparative statement | | \ \ / | |
| 38. | Which one of the following i a) Trend analysis c) Comparative Statement | is not a tool of financi b) Common siz d) Standard co | e statement | |
| 39. | The basic financial statemen a) Profit and loss account, ba b)Trial balance, trading acco c)Income statement, manufa d) Income statement, balan | alance sheet unt acturing account | ss concerns are and | |
| 40. | | | ver current liabilities. ce sheet d) Working capital | |
| 41. | Current ratio indicates a)Ability to meet short term c)Profitability | n obligations | b) Efficiency of management d) Long term solvency | |
| 42. | Proportion of shareholder's a) Proprietary ratio c) Debt equity ratio | b) Capital geari | s to total assets is called b) Capital gearing ratio d) Current ratio | |
| 43. | Current liabilities Rs.40,000; ratio is a)1:1 b) 2:5:1 | Current assets Rs.1,0 | 0,000;Inventory Rs.20,000.Quick | |
| 44. | Operating ratio is equal to a)100 – Operating profit rat c) Operating cost | b) 100 + Opera d) None of the | ting profit ratio se | |
| 45. | is one of the important a) Cash flow b) Profit | rtant tools of financia c) Ratio analys | al analysis. i s d) None of these | |

| 46. | Function Key F11 is used for a) Company features c) Company configuration | b) Accounting vouchers d) None | | |
|---|---|---|--|--|
| 47. | Contra voucher is used for a) Master entry c) Reports | b) Withdrawal of cash from bank for office use d) Credit purchase of assets | | |
| 48. | In 2009, Tally solutions introduce a) Tally, ERP 9 b) Tally, ERP 10 | ed the software c) Tally, ERP 6.0 d) Tally, 8.0 | | |
| 49. | Automated accounting is an appro the aid of a) System software | oach to maintain up to date accounting records with b) Accounting software | | |
| | c) System hardware | d) Accounting hardware | | |
| 50. | All transactions involving both cas a) Receipt voucher c) Contra voucher | sh account and bank account are recorded using b) Payment voucher d) Sale voucher | | |
| | COMMERCE | | | |
| 1. | The first management principles va) Victor Meldrew | were developed by b) Charles c) Henry Fayol d) Taylor | | |
| 2. | The principles of management are a) Changing technology c) Increase in efficiency | e significant because of b) Utilization of resources d) Initiative | | |
| 3. | Nothing can be performed without a) Organizing b) Staffing | ut c) Planning d) Controlling | | |
| 4. | MBO is popularized in a) USA b) Japan | c) India d) UK | | |
| 5. | | nt alert in opportunities and threats by identifying in | | |
| | critical problems a) MBA b) MBE | c) MBM d) MBO | | |
| 6. | is considered as | hares which made it easy to sell newly issued securi | | |
| | a) Increased liquidity c) Money flow | b) Decreased liquidity d) Large funds | | |
| 7. | Money market where debit and si year is classified as | tocks are traded and maturity period is more than a | | |
| | a) Short term markets c) Capital markets | b) Long term markets d) None of these | | |
| 8. Right issue refers to the shares issued to | | | | |
| | a) Employees c) Existing directors | b) Public d) Existing shareholders | | |
| 9. | Treasury bills and Commercial bill | | | |
| | a) Money market c) Debt market | b) Capital market d) None of these | | |
| | | | | |

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| 10. | The Issuers of certificate of Depos a) Drawer c) Commercial banks | sits are b) Treasury bills d) Corporations |
| 11. | The prices of different securities t a) State Boards c) Electronic Boards | traded are shown on b) Central Boards d) None of these |
| 12. | Who act as intermediaries betwe a) Authorized clerks c) Jobbers | en buyers and sellers of securities? b) Brokers d) Speculation |
| 13. | The capital market is meaningless a) Brokers b) Investors | s in the absence of the c) Owners d) Employees |
| 14. | SEBI issues Guidelines and Instruc a) Credit issues c) Capital market | ctions to business concerning b) Capital issues d) Share capital |
| 15. | SEBI has the following number of a) 5 b)6 | members including chairman. c)7 d) 8 |
| 16. | The Human resource is the most a) Organization b) Industry | important element to c) Commerce d) all of these |
| 17. | Human resource management re a) All managerial activities c) The management of people in | b) Concepts and techniques |
| 18. | In recruitment costs, agency fees, is Classified as a) Direct cost c) Both of the abo | , recruitment advertisement and salaries of recruiters b) Indirect cost d) None of the above |
| 19. | Which test measures the candida a) Number sequence test c) Mental arithmetic test | te's ability to find logic in a series or pattern? b) Vocabulary test d) Verbal reasoning test |
| 20. | Proper selection of candidates co a) Low labor turnover c) Better efficiency | ntributes to b) Good talent d) Job motivation |
| 21. | The words market is derived from a) Marks b) Marcatus | the Latin word c) Mars d) Marcus |
| 22. | Which market is regulated and co a) Commodity market c) National market | ontrolled by certain rules? b) Produce exchange market d) World market |
| 23. | The promotion "P" of marketing i a) Product differentiation c) Cost | is also known as b) Distribution d) Marketing communication |
| 24. | Marketing helps to the society to a) Increase b) Decrease | the Nation's income c) No change d) both a & b |
| 25. | Green marketing is also known as a) E-Tailing c) Traditional market | b) E-Marketing d) Environmental marketing |

26. The term consumerism in the early

| | a) 1950 | b) 1954 | c) 1956 | d) 1960 |
|-----|--|---|--|--|
| 27. | Producers, selle a) Workers | rs and service pro b) Managers | oviders give impo c) Consumers | rtance to the d) Owners |
| 28. | a) Rights to the i | | b) Rights to choo | |
| 29. | For the District o | consumer Forum, b) 15 lakhs | is a value of unto c) 25 lakhs | d) 10 lakhs |
| 30. | a) Collector the b) A person who | are qualified as a a | advocate | · LEGE |
| 31. | The analysis of ba) New opportuc) Profit maximiz | | nent helps a busir b) New employe d) None of these | ness to identify es |
| 32. | Every business h a) Strategic deci c) Both | | b) Dynamic deci | |
| 33. | by attracting mo | re foreign investr | ments | n external commercial borrowings d) None of these |
| 34. | The trade libera a) Consumption | | nefits developed o b) Sector | countries rather than developing c) Economies d) None of these |
| 35. | Sale of Goods A a) 1986 | ct was passed in t b) 1930 | he year c) 1982 | d) 1955 |
| 36. | Which of the fol a) Stock and Sha c) Growing crops | | all in the category b) Money and ac d) None of these | ctionable claims |
| 37. | a) Sale of Contra | to negotiable ins oct Act 1930 struments Act 18 | | in the b) Indian Contract Act 1872 d) None of these |
| 38. | The number of p | parties to a promi b) 4 | ssory note is c) 3 | d) 6 |
| 39. | In the case of Bi a) Maker | ll of Exchange dra b) Payee | wee is the c) Acceptor | d) None of these |
| 40. | "Entrepreneursh a) Schumpeter | | creative activity" c) Knight | ′ – who said these words? d) Jean Baptize |
| 41. | Women entrepr a) Liberalization c) (a) or (b) | eneurship is gaini | ng importance in b) Globalization d) (a) and (b) | India in the wake of economic |

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|-----|--|---------------------------------------|---|--|-----------|
| 42. | Gopal tooth pov a) Fabian entrep) Imitative entre | | er is an example b) Corporate er d) Drone entre | ntrepreneur | |
| 43. | Business entrep a) Solo entrepre c) Industrial ent | eneur | b) Technical en d) Agricultural | 1.050 | |
| 44. | Entrepreneur ha a) Statutory lice c) Provisional R | | | ct report anent Registration Certi | ficate |
| 45. | Which company a) Private comp c) both a and b | shares can be fre any | eely transferable b) Public compa d) None of thes | any | ۷. |
| 46. | Minimum numb Public Limited o a) 3 | | equired to apply c) 7 | for incorporation certificed) 50 | cate in a |
| 47. | The alternative a) Original direct | | epresentative or b) Shadow dire d) Nominee dir | ctor | |
| 48. | The minimum re | equirement of Dir b) Three | ector is c) Four | d) Five | |
| 49. | The meeting he a) Board meetin c) Shareholders | 1,100 | nolders of the co b) Committees d) none of thes | meetings | |
| 50. | Meetings of dire a) Special meeti c) Committee m | ngs 🐧 | b) Board meeti d) None of thes | 10 - | |
| | C | OMPUTE | R APPLI | CATION | |
| 1. | | aphics, video, anii | mation and soun | ves more than one type d c) desktop publishing | |
| 2. | Expand JPEG a) Joint photo ex c) Joint process | | | raphic expression group graphic experts group | |
| 3. | | dvantages of the i b) Adaptability | | d) Relativity | |
| 4. | How many majo a) 4 | or components ar b) 3 | e there in multin c) 5 | nedia? d) 2 | |
| 5. | is D a) Lotus 1-2-3 | TP software b) PageMake r | c) Maya | d) Flash | |
| 6. | tool is u | sed to draw a circ b) Rectangle | cle c) Star | d) None of these | |

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| 7. | document wind | ow. | | or left and right through the |
| | a) Formatting | b) Scrolling | c) Both 'a' and 'l | o' d) None of these |
| 8. | graphically. | am gives a logical nship b) Entity | | database Representation d) Database |
| 9. | Which is the Ma a) MySQL Client c) SQL | ySQL instance res | ponsible for data b) MySQL Serve d) Server Daem | r |
| 10. | represen a) Table | ts a "tuple" in a r b) Row | elational databas c) Column | e d) Object |
| 11. | | lowing is not a da b) Relational | | d) Consistency |
| 12. | What does PHP a) .html | files have a defau b) .xml | lt file extension? c) .php | d).ph |
| 13. | A PHP script sho a) <php></php> | ould start with b) Php? | | d) php? |
| 14. | What will be the php<br \$num=1; \$num=2; Print \$num." | e output of the for every end of the for every end of the foreign end | llowing PHP code | |
| | ?> a) 3 | b) 1+2 | c) 1.+.2 | d) Error |
| 15. | Which of the fol a) Default Synta c) HTML script 6 | | pe of PHP Syntax b) Short open ta d) Script open T | ngs . |
| 16. | PHP arrays are a a) Vector arrays | | c) Hashes | d) All of them |
| 17. | PHP's numerical a) 1 | lly indexed array b b) 2 | pegins with positi | on d) -1 |
| 18. | Which of the fol a) Single dimens c) Associative ar | | y type? b) Indexed array d) Multidimensi | |
| 19. | Statement which be performed is a) If statement c) Then else stat | written as | a choice between b) If else statem d) Else one state | |
| 20. | What will be the php<br \$X=10; \$Y=20; If (\$X>\$Y+\$Y Print "hi"; | e output of the fo | llowing PHP code | ? |

| | Else Print"how ar ?> | re you"; | | | |
|-----|--|--|--|-----------------------------------|-----------------------|
| | a) how are you | b) hi | c) error | d)No output | |
| 21. | Which of the fol languages? a) Class | lowing is the mo | st important featu | ire of many prog | 1 5 6 |
| 22 | | | lock of code while | | |
| LL. | a) Do while | b) For each | c) While | d) For | nation is true. |
| 23. | PHP is aty | /ped language. b) Loosely | c) Server | d) System | |
| 24. | HTML classes th | at are already de | fined and allow u | s to apply styles | on them are called |
| | a) Pseudo classe c) Javascript cla | | b) Css classes d) None | | J.F. |
| 25. | Which of the fol a) fgets () | lowing function, b) file_get_cont | reads the entire o | contents of a file of c) fread () | d) readfile () |
| 26. | How many para | meters are requir b) 3 | red for the MySQl c) 4 | i query function d) 5 | in PHP? |
| 27. | | of PHP supports N b) version 3.0 | MySQLi functions? c) version 4.0 | | |
| 28. | A Computer net called as a) Hub | work device that - b) Resource | originates the roo | ute and terminat d) Cable | es the data were |
| 29. | Which one of th | | ds, the speed cap | acity supported | towards gigabit on |
| | a) SABRE | b)SAGE | c) NEW FIBRE O | PTICS | d) ARCNET |
| 30. | | less power comp | paring with a singl | e transmitter or | satellite often a cel |
| | towers nearer a) Mobile device c) WIFI | es | b) Transistors d) Communicati | on | |
| 31. | the public teleco | | e the easier way t stem to securely s customers? c) arpanet | | |
| 32. | RFID stands for a) Radio Free ide | - 15 15 - 15 - 15 - 15 - 15 - 15 - | b) Real Frequend | cy identity ency Identificatio | n |
| 33. | b) Transmission c) Transmission | rol Protocol/Inter Control Protocol Control Procedur | rnet Protocol / Information Proce e / Internet Proce | edure | |

| 34. | | otted-decimal and b |
|-----|--|--|
| 35. | 5. ISP stands for a) International Service provider c) Internet service Protocol d) II | nternet Service Provider ndex service provider |
| 36. | 6. Assertion (A): The number of addresse Reason (R): IPv6 address is 128 bit uni a) A is true and R is false b) A is false and R is true c) Both A and R are correct and R is t d) Both A and R are correct and R is n | ne correct explanation of A |
| 37. | 7. ARPANET stands for a) American Research Project Agency b) Advanced Research Project Area Ne c) Advanced Research Project Agency d) American Research Programs and N | twork Network |
| 38. | Which medium is used in the optical f a) Microwave b) infra red c) li | |
| 39. | 9. Which connector is used in the Ethern a) RJ11 b) RJ21 c) R | |
| 40. | D. Fill in the blanks : NS2 comprises of a) 13 b) 3 c) 2 | key languages? d) 4 |
| 41. | | wing to build NS2 NIX & a. C++ ++ & NS2 |
| 42. | SME stands for a) Small and medium sized enterprises b) Simple and medium enterprises c) Sound messaging enterprises d) Short messaging enterprises | rs |
| 43. | Off-shoring means a) Work outsourced to a branch of its b) Work outsourced to new employee c) Work outsourced to a third party of d) Work outsourced to a third party of | s cally |
| 44. | Which of the following is not a charact Products cannot be inspected physi Goods are delivered instantly Resource focus on supply side Scope of business is global | |
| 45. | | ent system can be classified into Nicro and Nano Naximum and Macro |

| UL | INA ANTO AI | AD SCIENCE | COLLEGE | ividuurai |
|-----|--|---|---|--|
| 46. | a) Customers ca b) VPA does not c) VPA is a uniqu | n use their emai include number ue ID | l id as VPA | ent Address (VPA) ? A |
| 47. | Which of the fol a) Credit Cards - c) Stored Value | – pay before | ly matched? | b)DebitCards–paynow d) Smart card – pay anytime |
| 48. | | | nology does not in Time Stamps (iii) [| nclude Digital Technology (iv) Digital |
| | a) i, ii & iv | b) ii & iii | c) i, ii &iii | d) all the above |
| 49. | | onic Transaction | | ds transactions via the Internet b) Credit Key Verification d) Public Key Encryption |
| 50. | b) EDI for Adviso c) EDI for Admir | sible Commercia ory Committee a | nd Transport nerce and Transpo | on CE COL |
| | | COMPU | TER SCI | ENCE |
| 1. | Bundling two va a) Pair | llues together int b) Triplet | to one can be cons c) Single | sidered as d) Quadrat |
| 2. | Big Ω is the reveal Big 0 | erse of b) Big θ | c) Big A | d)Big S |
| 3. | The Extension o a) .Pyt | f Python files is_ b) .txt | c) .Pdm | d) .Py |
| 4. | The bin() function a) 0 | on returns a bina b) 1 | ry string prefixed c) Ob | with d)1b |
| 5. | | that are commo | n to the two sets? | ne elements that are in the two sets c) Intersection d) Union |
| 6. | The variables in a) Subroutines | | ition are called as c) Definition | d)Parameters |
| 7. | | memory | 200000000000000000000000000000000000000 | |
| 8. | | of API is rogramming Inte erforming Interfa | | plication Programming Interface plication Programming Interlink |
| 9. | | r interfacing Pyth | | d)Boost |

| 10. | | nformation System | | mation System formation Services |
|-----|--|---|---|---|
| 11. | | to sort data in a o | | d) SELECT |
| 12. | The process of ba) Scoping | | | ject is called d)Program |
| 13. | The complexity (a) O(n) | of a linear search b) O(logn) | | d) O(nlogn) |
| 14. | The positive sub a) 0 | script that is assig b) 1 | gned to the last cl c) n | haracter is d)n-1 |
| 15. | | | | Windows operating system is d)getopt module |
| 16. | | t returns the larg b) LARGE() | | elected column is d) MAXIMUM() |
| 17. | a) Procedural Pro | ub dividing a com ogramming Programming | b) Modular Prog | ito separate sub-programs is called gramming ed Programming |
| 18. | How many types a) 4 | of Visualization of b) 6 | | ? d)8 |
| 19. | Named blocks of a) Loop | f code that are de b) Branching c) | | specific job are called as d)Block |
| 20. | | sed to print more b) Dollar(\$) | | |
| 21. | | n and Line Feed | | rn and Form Feed Irn and Line Feed |
| 22. | The data type w a) Built-in data t c) Concrete data | hose representati ype type | ion is unknown is b) Derived data d) Abstract data | type |
| 23. | The TCL comma Commit | nd used to restore b) Save point | | the last commit state d) Rollback |
| 24. | The python file r a) w | mode opens a file b) x | for exclusive crea c) b | ation d)a |
| 25. | | functions b) built-in | | the language python. d)recursion |
| 26. | This is the theore a) A Prior Estima c) Space factor | | ce analysis of an a b) Posterior test d)Time factor | algorithm ing |
| 27. | | riable arguments b) List | | |

| 28. | The function det a) Attribute | fined inside a clas b) parameter | ss is called as c) arguments | d)Methods |
|-----|---|--|---|---|
| 29. | The SQL comma | nd truncate come b) DML | es under c) TCL | d)DQL |
| 30. | Plot is a type of Line | plot that shows t b) scatter | he data as a colle c) Box | ction of points d)Pie |
| 31. | The floor divisio a) / | n operator in pyt b) % | hon c) %% | d)//= |
| 32. | | vides a set of defi y the database sy b) DCL | | e storage structure and access d)DDL |
| 33. | The formatting (a) %e | character is used b) %E | to print exponent c) %g | ial notation in uppercase. d)%n |
| 34. | Which is a muta a) List | ble and unordere b) Tuple | 2 | ements without duplicates? d)Dictionary |
| 35. | The class instant a) creating a class c) creating a sele | ss | b) creating a cor | |
| 36. | passed from a fu | unction to a funct | | arguments are the values which are d) Parameters |
| 37. | | | s often defined w c) implementati | ith in a greater code structure. on d)qualifiers |
| 38. | In dynamic prog called? a) saving value p c) memoization | property 45 | hnique of storing b) storing value d) mapping | the previously calculated values are property |
| 39. | | | a comparative o c) assignment | |
| 40. | | used to add mor b) extend() | | nt to an existing list. d)len() |
| 41. | | | as first proposed i c) 1970 | in d)1971 |
| 42. | | ional Standard In | | erican National Standards Institute erican National System Institute |
| 43. | | apper Interface G Interface Genera | | b) System Web Interface Generator d) Semantic Web Interest Group |
| 44. | | | sed statement in c) Delete | |

| 45. | number summa | ry. | N 200 NV 200 | e distribution of data based on |
|-----|--|---|---------------------------------------|--|
| | a) 5 | b) 4 | c) 3 | d) 6 |
| 46. | data. | nts numerical da | ta where as | graph shows categorical |
| | a) line | b) bar | c) pie | d)allofthese |
| 47. | a) Local | refer to variable b) Enclosed | | ent function. d)Builtin |
| 48. | b) Integrated Dis c) Integrated De | oisplay Learning E Splay Learning Envelopment Link E Evelopment Learr | vironment nvironment | d) Float |
| 49. | Value a) Numeric | es are ignored. b) Decimal | c) Null | d) Float |
| 50. | | lowing is an orga (b) DBMS | | of data? |
| | | ECC | ONOMIC | s. Y |
| 1. | The General The a) 1936 | | ent, Interest and c)1984 | Money published in d) 1999 |
| 2. | understood only a) Micro Analys | through | b)Macro analys | |
| 3. | | ree major types o onomy (Capitalis ny (Mixedism) | | ems? b)Socialistic Economy (Socialism) d) All of the above |
| 4. | National income (a) Two | is measured by ((b) Three | | hods. (d) Four |
| 5. | PQLI is the indica a) Economic gro c) Economic Pro | ator of wth | | |
| 6. | a) C - Cost Cons | + (X-M) " C" mea umption Expendi sumption Expend | ture b) C - Co | onsumption Expenditure rivate Consumption Expenditure |
| 7. | Disposable Incor a) Direct Tax | me = Personal inc b)Indirect Tax | ACCESS OF A SUPER | d) VAT |
| 8. | J.B. Say is a a) Neo Classical c) Modern Econ | | b) Classical Eco d) New Econom | nomist of Employment ist |
| 9. | | eynes was one of b)19 th Century | | ntial economists of the d)17 th Century |

| 10. | a) Short - Run A | f market is based nalysis g - Run Analysis. | | nalysis. | |
|-----|---|---|--|--|--------------------------|
| 11. | Inflation means a) Prices are Ris c)Value of Mone | | b) Prices are Fall d) Prices are Rei | | nme |
| 12. | | ssical theory, the b) Demand | | | <u> </u> |
| 13. | J.B.Say | | 작용하다. (1915 전체 1.1710.) 전에 11이루 (18 1942~4.840 1 40.) | AND THE RESIDENCE OF STREET, S | David Ricardo, J.S.Mill, |
| | | b) Kenyes | | | |
| 14. | Nations" in | | | | uses of the Wealth of |
| | a) 1773 | PROCESS COM | | d)1776 | |
| 15. | relationship. | n function or pro | | | consumption |
| | 30 M M | b)Demand | Sea State 64 | | 1010 to 101 tot |
| 16. | The marginal pr consumption to | opensity to consu | ime may be defin | ed as the ratio | of the changes in the |
| | a) Change in der c) Change in inc | mand | b) Non change i | n demand | |
| | c) Change in inc | ome | d) Non change i | n income | |
| 17. | | pensity to save is | | | * 8V |
| | | b)APS = I/Y | | ETHE YORK SAMMACLEDGE ON | |
| 18. | Which makes the the cost of capit | 1911 1914 and the state of the | sent value of the | expected inco | me stream equal to |
| | a) Marginal Effic | ciency of Consum | ption | b) Marginal E | Efficiency of Income |
| | c) Marginal Effic | ciency of Capital | | d)Marginal E | fficiency of Cost |
| 19. | | vas introduced by b) J.M. Keynes | | d) Malthus | |
| 20. | The multiplier is | defined as the ra | ntio of the | to chan | ge in investment. |
| | a) Change in Na c) Change in Na | tional Budget tional Income | b) Change in Na d) None of the A | tional Interest Above | |
| 21. | Irving Fisher wh a) 1911 | o published his bo b)1912 | ook, "The Purcha c)1913 | sing Power of d)1914 | Money" in |
| 22. | The studies of the Industrial Fluctu | | are called the stud | dy of Business | cycle or Trade cycle or |
| | a) Ups | b) Downs | c) Ups and Dow | ns d)None | of the above |
| 23. | In India, currend a) Reserve Bank | cy notes are issue c of India | | c)IDBI | d)ICICI |
| 24. | | _is a card allowin | g the holder to tr | ansfer money | electronically from |
| | their bank accou | unt when making | a purchase. | | |
| | a) Credit card | b) Debit card | c) ATM card | d) Pan card | |

| 25. | | b) 1967 | c) 1968 | d) 1969 | aucea in |
|-----|---|--|--|--------------------------------|---|
| 26. | ₹500 and ₹1000 | bank notes of th ies came back to 2016 | e Mahatma Gand | r 2016 | onetization of all er, more than 99% |
| 27. | The Central bank a) Monetary | | uthority of any co c) Wage | ountry. d) National Inco | me |
| 28. | | | nen the receipts (c) Payments | R) and d) Price | _ are just equal |
| 29. | How many types a) 1 | of BOP Disequili b)2 | brium? c) 3 | d) 4 | GE |
| 30. | The IMF and Wo a) 1943 | rld Bank were sta b) 1944 | arted in c) 1945 | d)1946 | |
| 31. | Membership in t member of a) IBRD | the International b)RBI | Monetary Fund is c)IDRD | s a prerequisite to d) IDBI | becoming a |
| 32. | Net export equa a) Export x Impo c) Export – Impo | rt | b) Export + Impo d) Exports of Se | | |
| 33. | a) GATT | | 1995 as a succes c) WWW | | Above |
| 34. | The IMF has 189 a) 2015 | member countri b) 2016 | ies with the Repu c)2017 | blic of Nauru join d)2018 | ed in |
| 35. | | rs of ASEAN is b)New Delhi | c)Colombo | d)Tokyo | |
| 36. | and Politics. | , | 57 | | etween Economics |
| | | | c)None of the al | | d) Adam Smith |
| 37. | governments of | a country. | 1945 (1949) 2000 (1949 - 1949) (1945 (1949 - 1949) (1949 - 1949 (1949 - 1949) (1949 - 1949) (1949 - 1949) (194 | curred by central, | |
| 38. | GST is the equiva | alence of b) Corporation t | ax | c) Income tax | d) Local tax |
| 39. | during the year i a) Balanced bud | s equal to its ant | icipated expendit b) Public expend | | e government |
| | c) Profits | | d) Payments | | |
| 10. | Fiscal deficit (FD a) Budget deficit c) Public expend | | + Governmen b)Balanced bud d) Planning | | vings and liabilities |

| 41. | | mmission's recon kick in form Apri | | ax sharing between the centre and |
|-----|---|---|------------------------------|---|
| | a) 2018 | b) 2019 | c) 2020 | d)2021 |
| 42. | | stration to furthe | | penditure, taxes, borrowing and nomic objectives d) Buehler |
| 43. | The ecosystem i a) Ionosphere | s the smallest uni b) Lithosphere | t of c) Biosphere | d) Mesosphere |
| 44. | The Air (Prevent a) 1981 | ion and Control o b)1982 | of Pollution) Act c) 1983 | d) 1984 |
| 45. | | dren under the ag n and developmer b)94% | | n children) breathe polluted air that - WHO d) 96% |
| 46. | | | | ment) is to focus on natural capital rough time." -Pearce, Markandya |
| 47. | | | | roviding oxygen, improving air eserving soil and supporting wildlife d)All of these |
| 48. | Sustainable Dev | elopment Goals a b) 2025 | nd targets are to c)2030 | be achieved by d) 2050 |
| 49. | | in its World Deve ational Income (G b) Income | | classifies various countries on the d) All of The Above |
| 50. | Economic Plann production and | | control or suppres | ssion of private activities of |
| | a) Robbins | b) A.C.Pigou | c) AnatolMurad | d) Buehler |
| | ,0 | P GEO | OGRAPHY | Y |
| 1. | size, structure a | nd distribution of h, migration, agin | population as we | opulation. It includes the study of ell as changes in time and location ir y |
| 2. | a) Creating and I Awareness Camb) Aiming for Sir | paigns ngle-Child Familie: a National Securit | tional and Worldy s. | ılation. wide Multi-Media Overpopulation |
| 3. | a) The Ganges v | lowing are not de alley, Brahmaputr | ra valley, and East | |

- c) Sahara, Eastern Siberia and Patagonia region.
- d) Brahmaputra valley, Hwang Ho valley and North Western Europe
- Most anthropologists believe that hundreds of thousands of years ago humans first appeared in
 - a) The Euphrates and Tigris valley

b) The Indus valley of Asia

c) The Great Rift Valley in East Africa

- d) The Nile valley of Africa
- 5. The first urban settlement to reach a population of one million (Million city) is
 - a) London
- b) Paris

c) New York

- d) Tokyo
- It is predicted that by 2050 about the developing world and the developed world will be urbanized to
 - a) 74% & 76% respectively
- b) 64% & 86% respectively
- c) 54% & 96% respectively
- d) 44% & 66% respectively
- 7. As per 2011 census, which one of the following is correct?
 - a) Delhi's population rose by 4.1%
- b) Mumbai's by 5.1%

c) Kolkata's by 4%

- d) Chennai's by 5%
- 8. One of the following statements is incorrect about the dispersed settlement.
 - a) Houses are spaced far apart
 - b) Often interspersed with fields.
 - c) Their market and some other activities are centralized where they participate together
 - d) Found in the fertile river valley
- 9. The largest producer of Geo Thermal Energy in the world is Mineral Characteristics
 - a) Russia
- b) The U.S.A
- c) Canada
- d) China
- 10. Pick out the statement which is untrue about the renewable resources.
 - a) The resources which can always be available for use after their usage.
 - b) Resources have natural regeneration and are inexhaustible.
 - c) Air, water, solar energy etc. are examples for renewable resources.
 - d) Available in finite quantities and cannot be obtained once if they are utilized.
- 11. Identify the one which is untrue about the minerals.
 - a) Minerals generally occur in the cracks, crevices, faults and joints of the igneous and Metamorphic rocks.
 - b) Mineral in smaller occurrence in the joints of the rocks is called a 'Vein'.
 - c) Mineral in a larger occurrence in the joints of the rocks is called a 'load'.
 - d) When the decomposed rocks are washed away by water, the soluble particles are removed, leaving a mass containing ores. Such occurrences are called residual mass.
- 12. Viticulture or grape cultivation is a speciality of
 - a) The Pampas region
- b) The savannah region
- c) The Sahara region
- d) The Mediterranean region
- 13. Which one of the following consists of only the developed countries?
 - a) Australia, Kenya, Pakistan, Germany and Italy
 - b) Australia, Canada, France, Germany and Italy
 - c) Australia, Sri Lanka, Thailand, Germany and Italy
 - d) Pakistan, Sri Lanka, France, Germany and Italy

| 14. | Identify the whi a) Foragers — Ro c) Pygmies — Ka | | matched. b) Inuit — Arctic d) Aborigines — | TO SECTION TO PROPERTY AND ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY | |
|-----|--|--|--|--|--|
| 15. | a) Low Gross Do | mestic Product | the characteristic b) high literacy (ed) high level of (| | |
| 16. | Whichone of the following is not the characteristics of the Developed countries? a) Lower per capita income b) Better housing and living conditions c) High GDP d)Infrastructural and technological advancement | | | | |
| 17. | Which one of th a) Tea | e following is not b) coffee | a plantation crop c) Corn | d) cocoa | |
| 18. | One of the exist a) 14 minutes | ing languages in t b) 14 days | he world dies eve c) 14 months | eryd) 14 years | |
| 19. | One of the UNE children does no a) 457 language c) 646 language | ot speak s | of language risk, d b) 970 language d) 374 language | | |
| 20. | Who rules Hear | _ | | d) Mackinder | |
| 21. | Which country h | nas the maximum b) Canada | number of neigh c) Russia | bours touching its border? d) India | |
| 22. | a) Persia and th b) Pakistan occu | e boundary betw pied Kashmir the state bounda | nple of Relict Bou veen east & West ries of USA | | |
| 23. | The Heartland to a) Humboldt | heory was propos b) Hutton | sed by c) Spikeman | d) Mackinder | |
| 24. | Which of the given statements is true? a) India has the world's highest number of languages. b) India has the world's third highest number of languages, after China and Russia. c) India has the world's second highest number of languages, after Papua New Guinea. d) India and England have the third and fourth highest number of languages | | | | |
| 25. | respectively. Which one is wr a) GPS — United d) BEODOU — C | d States | b) GLONASS — F | Russia c) GALILEO — Japan | |
| 26. | GPS uses a cons a) 28 satellites | | c) 40 satellites | d) 24 satellites | |

| 27. | | ocation informati boundary for up t b) 2000 km | | d) 1,500 km. | e region extendin |
|-----|--|--|--|---|--|
| 28. | geology? | | | ing techniques us | ed in the field of |
| | a) Lithological mc) Wildlife explo | | b) Structural mad) Hydrocarbon | | |
| 29. | Which one of tha NOAA SEASAT | e following is not | a sun synchrono b) TIROS | us satellite? c) SKYLAB | d) METEOSAT |
| 30. | The wave length a) 0.4 to 1.0 mm | is of the passive r b) 0.8 | emote sensing ra to 2.0mm c) (| | d) 0.6 to 0.4 mm |
| 31. | Whichone of the a) Sunway Taihu | e following is the Light | | in the world? c) Pratyush | d) Param 10000 |
| 32. | | orbit is situated a b) 20,000 km | | km above the ear d) 22,000 km | rth's surface |
| 33. | Whichone of the a) INTELSAT | e following is a ge b) Corona | osynchronous sa c) MIDAS | tellite? d) SAMOS | |
| 34. | Who headed the a) George Perkir c) Edward Golds | ns Marsh's | ion on Environme b) Gro Harlem E d) Fruitz Schuma | | nent? |
| 35. | Sea level rise is a) 0.01 to 0.25 cc) 0.1 to 0.025 c | | at the rate of b) 0.1 to 0.25 ce d) 1 to 0.25 cent | per yea entimetre timetre | ar |
| 36. | Rain water harv | esting improves t b) Ocean | he quality of c) River | d) Under ground | |
| 37. | . Which is the best strategy to reduce toxic gas emissions. a) Public motor transport b) Use private transport c) Use of electricity powered cars d) Two wheelers can be an alternative | | | | |
| 38. | In which year wa a) 1947 | as EIA introduced b) 1950 | in India c) 1956 | d) 1978 | |
| 39. | | a for Sustainable | [일본] [1] [1] [1] [1] [1] [1] [1] [1] [1] [| Goals and 169 targ opted at the UN G d) 163 | [[[[[[[[[[[[[[[[[[[[|
| 40. | "sustainable dev | elopment in | | ature introduced | the term |
| | a) 1990 | b) 1980 | c) 1970 | d) 1960 | |
| 41. | In the Paris Agreement at the COP21 in Paris on 12 December 2015 all countries agreed to work to limit global temperature rise to a) Below 2 degrees Celsius b) Above 2 degrees Celsius c) Between 2 degrees Celsius and 4 degrees Celsius d) Between 2 degrees Celsius and 6 degrees Celsius | | | | |

| 42. | a) 1 – 3 m/sec | b) 3 – 5 m/sec | | d) 6 – 8 m/sec | | |
|-----|---|--|--|-----------------------------------|--|--|
| 43. | It is important to a) Fire | | over, Hold for c) Lightning | d) Flood | | |
| 44. | To cut off all brai a)Earthquake | nches of trees sta b) Flood | anding near our h | ouse is to prevent d) Drought | | |
| 45. | The 1984 Indust a)Delhi | rial gas disaster o b) Pune | ccurred in | d) Noida | | |
| 46. | The percentage | of death worldwi | de due to uninter | ntional injury during drowning is | | |
| | a) 5% | b) 7% | c) 10% | d) 2% | | |
| 47. | The natural gas v | vent known as the | e Eternal fire of B | aba Gurgur is located at which | | |
| | a) Iran | b) Iraq | c) Yeman | d) Kuwait | | |
| 48. | Every year, a)4.34 million | people are kill b) 2.34 million | led in the road ac c) 3.24 million | cidents. d) 1.34 million | | |
| 49. | In India of s a) 69% | stampede occur i b) 59% | n religious events c) 79% | s. d) 49% | | |
| 50. | Drowning account a) 75% | nt for of dea b) 65% | aths in flood disas c) 55% | sters. d) 85% | | |
| | HISTORY | | | | | |
| 1. | The Communist (a) 1920 | Party of India wa (b) 1925 | s formed in the y (c) 1930 | ear (d) 1935 | | |
| 2. | The Two Nation (a) Rajaji (c) Muhammad | Theory first came Ali Jinnah | from (b) Ramsay Mac (d) Sir WazirHas | | | |
| 3. | The Interim Gov (a) Jawaharlal N (C) Rajendra Pra | | was headed by (b) MoulanaAbu (d) Vallabhai Pat | | | |
| 4. | The Adoption of (a) January 30, 1 (c) January 30, 1 | | was on (b) August 15, 19 (d) November 2 | | | |
| 5. | | andhi National Rı | ural Employment | Guarantee Act was passed in the | | |
| | year (a) 2005 | (b) 2006 | (c) 2007 | (d) 2008 | | |
| 6. | How many publ (a) 5 | ic sector enterpri (b) 7 | ses were function (c) 6 | ning in India in 1951? (d) 225 | | |
| 7. | The storming of (a) June 5, 1789 (c) November 11 | the Bastille happ , 1789 | ened on (b) July 14, 1789 (d) May 1, 1789 | • | | |

| 8. | The Europeans who first settled (a) Portuguese (b) Spanish (c) Danish (d) English | l in North America | a were | | |
|-----|---|--|---------------------------------|------------------------------------|--|
| 9. | Napoleon was exiled for the firs (a) Elba (b) St. Helena | t time to (c) Corsica | (d) Waterloo | | |
| 10. | The Tariff Act, 1879 was enacted (a) Germany (b) France | d by (c) Britain | (d) USA | | |
| 11. | Laissez Faire is a word coined by (a) John A. Hobson | (b) Karl Marx | (c) Fischer | (d) Gournay | |
| 12. | In August 1942, US forces in the (a) Alexander Vandegrift (c) General de Gaulle | Pacific were com b) Eisenhower (d) George Mai | | 4 | |
| 13. | The Second International was for (a) Paris (b) Berlin | ounded in (c) London | (d) Rome | E.C. | |
| 14. | By the end of 1947, the only cou was (a) East Germany (b) Czecho | | ne Soviet influen (c) Greece | ce in Eastern Europe (d) Turkey | |
| 15. | In 1939, Germany signed a Non- (a) Austria (b) Italy | aggression pact v | | (d) Britain | |
| 16. | The first passenger train ran in 1853 between (a) Madras – Arakkonam (b) Bombay – Pune (c) Bombay – Thane (d) Kolkata – Hoogly | | | | |
| 17. | . Who was called the 'Grand Old Man of India'? (a) BalaGangadharTilak (b) M.K. Gandhi (C) DadabhaiNaoroji d) Subhash Chandra Bose | | | | |
| 18. | The Boston Tea Party incident t (a) 1775 (b) 1773 | ook place in the y (c) 1784 | ear (d) 1799 | | |
| 19. | By the end of 1947 the only cou was (a) East Germany (c) Greece | untry left out of th (b) Czechoslova (d) Turkey | | ce in Eastern Europe | |
| 20. | Who wrote the book - 'Poverty (a) BalaGangadharTilak (c) DadabhaiNaoroji | and Un-British Ru (b) Gopala Kris (d) M.G. Ranad | hna Gokhale | | |
| 21. | Which of the undermentioned personalities is unrelated to the Swaraj Party? (a)Rajaji (b) Chitaranjan Das (c) Motilal Nehru (d) Sathyamurthi | | | varaj Party? | |
| 22. | The term "Third World" was coi (a) Alfred Sauvy | ned by (b) Marshall | (c) Molotov | (d) Harry Truman | |
| 23. | Gandhi set out on March and re (a) 6th April 1930 (c) 4th April 1939 | eached Dandi on_ (b) 12th March (d) 4th March 1 | | | |

| 100000 | | | |
|--------|---|---|--|
| 24. | INA was founded with the help o (a) Germany (b) Japan | f (c) France | (d) USA |
| 25. | The Home Rule Movement in Soc (a) Tilak (b) Annie Besar | | ted by (d) Col. H.S. Olcott |
| 26. | English education was introduced (a) 1825 (b) 1835 | d in India in the ye (c) 1845 | ear (d) 1855 |
| 27. | Who said "Sovereignty is my birth a) BalaGangadhara Tilak c) SubhashChandra Bose | hright, I will achie b) Dadabai Nao d) Bharatiyar | |
| 28. | Founder of the Indian National C a) Subhash Chandra Bose c) U. Hume | ongress b) Gandhiji d) BalaGangadh | araTilak |
| 29. | As the next President of the Cong Whose name was proposed by th a) AravindaGhosh c) Peroz Shah Mehta | | oroji |
| 30. | who is the founder of Anushilan (a) PulinBihari Das b) HemachandraKanungo c) Jatinderanath Banerjee and Pa d) KuthiramBhosh and PrafullaCh | arinder Kumar Gl | 7CF |
| 31. | Who initiated the autonomy mova) Thilakar b) Anniebesant | | ndia? d) HS Alcott |
| 32. | Author of the book "Indian Unres a) LalaLajapatirai c) Thilakar | st". b) Valentine Sir d) Anniebesant | ol |
| 33. | Who was the political guru of Ga a) Thilakar b) Gokhale | ndhiji? c) R.U. Banerjee | d) A.P. Ranade |
| 34. | What is the name of the party fo a) Swarajya Party c) Independence Party | unded by Motilal b) Qatar Party d) Communist P | |
| 35. | In which year was the Communis a) 1920 (Foreign) | t Party of India (fo b) 1925 (India) | oreign on Indian soil) founded? c) 1930 d) 1935 |
| 36. | What is KalpanaDutt associated v a) Hindustan Socialist Republican c) Republic of India Army | | b) Bengal Sabha d) None of these |
| 37. | Congress won the elections held a) 12 provinces b) 7 provinces | | d) 8 provinces |
| 38. | When the Muslim League observ a) 25 December 1942 c) 21 March 1937 | red Direct Action b) 16 August 19 d) 22 December | 46 |
| 39. | Cripps delegation visited India du a) Lord Wavell c) Lord Mountbatten | ring whose rule? b) Lord Linlithgo d) None of these | ow |

| ~- | | ID DOILINGE | OLLLOL | | iriaaaia |
|-----|---|--|---|---|-----------------|
| 40. | An Interim government was form a) Jawaharlal Nehru c) Rajendra Prasad | | ned in 1946 under whose leadership? b) MaulanaAbulKalam Azad d) Vallabhbhai Patel | | p? |
| 41. | When was the fi | rst amendment t b) 1952 | o the Constitutio c) 1976 | n of India made? d) 1978 | |
| 42. | year? | | | rantee Act was pa | assed in which |
| | a) 2005 | b) 2006 | c) 2007 | d) 2008 | |
| 43. | Who modernize a) Donatella | d St. Peter's Chur b) Raphael | ch in Rome built c) Leonardo da | : [100] [100] [100] [100] [100] [100] [100] | d) Michelangelo |
| 44. | New Amsterdan a) Washington | n was renamed as b) New York | | d) Amsterdam | ć. |
| 45. | Napoleon was fi a) Elba | rst exiled and imp b) St. Helena | | d) Waterloo | , C |
| 46. | Who coined the term "Cold War"a) Bernard Baruchc) George Kennan | | "? b) George Orwell d) Churchill | | |
| 47. | The US intervent a) Turkey | tion in Lebanon v b) Iraq | vas opposed by c) India | d) Pakistan | |
| 48. | The first Secreta a) Burma | ry General of the b) Japan | UN General Asse c) Singapore | embly, Trigwe, bel d) Norway | onged to |
| 49. | The first summit | of the Non-Align b) Beijing | ned Movement w c) Bandung | as held at d) Bali | |
| 50. | The Soviet Union a) November 17 c) May 1, 1991 | n disintegrated in , 1991 | b) December 26 d) October 17, 1 | | |
| | | | | | |

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