

**SUCCESS ACADEMY – TAMBARAM, CHENNAI 59**  
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TET Paper I

Part I - CHILD DEVELOPMENT AND PEDAGOGY  
Foei j NkkghL kwWk; fwggj j y;

1. 'Mnemonics' vdGJ \_\_\_\_\_ cl d; nj hl hGi l aJ.  
a. epNkhdjah      b. **epi dT**      c. , uj j Nrhi f      d. kwj p  
'Mnemonics' is related to  
a. Pneumonia      b. **Memory**      c. Anaemia      d. Amnesia
2. , di wa # oypy; Foei j fspl k; kpf Kffpakhf , Uff Ntz ba xdW  
a. Ez z wpT      b. MS i k      c. **eynyhOf,fk**      d. mDgtk;  
In the present situation, the children must possess an important factor of  
a. intelligence      b. personality      c. **moral value**      d. experience.
3. '\$ I ; hsp; FOg; gUtk;' vdW mi of,fggLk; gUtk;  
a. Foei j g; gUtk;      b. **gpsi sggUtk**  
c. Fkug; gUtk;      d. eLj j utaJ gUtk;  
'Gang age period' is  
a. Infancy      b. **Childhood**      c. Adolescence      d. Middle age.
4. tLrhfrqfs; Ghgthpl k; Jz prry; kwWk; \_\_\_\_\_ kpFeJ fhz ggLk;  
a. ghT      b. mdG      c. cl y; typi k      d. **kdtypi k**  
Adventurers have more braveness and  
a. sympathy      b. love      c. physical strength      d. **mental strength**.
5. kdj kdntOrppad; ntsppghL fbffhZ k; thpi rapy; mi kAk; vd kf; ^fy;  
fUJ fpwhh;  
a. nray; → cz h;T → mwpT  
b. mwpT → # oepi y → cl ypa,fk;  
c. **mwpT → cz h;T → cl ypa,fk;**

- d. kdntOrrp → cz h;T → mwπT  
 McDougall says that the emotional expressions of human being occur in which of the following sequence?  
 a. Action → Affection → Cognition  
 b. Cognition → Environment → Conation  
**c. Cognition → Affection → Conation**  
 d. Emotion → Affection → Cognition
6. , Uggj py; rπwej twi w Foei j fS f;F t oqf kdj , dk; fl dgl;LssJ vd l .eh. ri g \_\_\_\_\_ y; gπf l dggLj j πaJ .  
 a. 1969> Mf;] l ; 15;                      b. 1969> Vguy; 20  
 c. 1959> [ \_i y 16                      **d. 1959> et kgh; 20**  
 "It is the duty of mankind to give the best to the children" – UNO proclaimed it on  
 a. 1969, August 15                                              b. 1969, April 20  
 c. 1959, June 16                                              **d. 1959, November 20.**
7. mrR kwWk; kpd; Cl f qf; s; y; Kd d; πi yggLj j ggl Ntz bai t  
 a. thofi fapd; VwWfnfhss f;\$ ba vj πhki wahd gFj π  
**b. thofi fapd; VwWfnfhss f;\$ ba Nehki wahd gFj π**  
 c. thofi fapd; Nehki w> vj πhki wahd gFj π  
 d. thofi fapd; kfπorrπaww gFj π;  
 Print media and electronic media must project  
 a. acceptable negative side of life  
**b. acceptable positive side of life**  
 c. positive and negative sides of life  
 d. seamy side of life
8. Mrπhah; fUj ; J gnghopT Ki wi a mbf;fb gadgLj ; J tj d; %yk; \_\_\_\_\_  
 a. Mf;fj j πwd;                      **b. Ez z wπT**                      c. Gyd;fhl rπ                      d. epi dT  
 With the frequent use of brain storming method the teacher develops  
 a. Creativity                      **b. intelligence**                      c. perception                      d. Memory
9. j πwdha;Tr; rπej i di aj ; J }z ; LtJ  
 a. Kd; %i s                      b. tyJ %i s                      c. , l J %i s                      d. gπd; %i s  
 Critical thinking is induced by  
 a. fore brain                      b. right brain                      c. left brain                      d. hind brain
10. i rd bf;] ; vd;Dk; Mqf; πy; r; nrhyypd; nghUs;  
 a. gyNtW nghUs; fi sg; gπh j j y;

- b. gyNtW nghUs,fi s xUq,fi z j j y;  
 c. nghUI ,fi s xggpLj y;  
 d. gyNtW nghUI ,fi s tbt i kj j y;

The word 'synatics' means

- a. segregating different things  
**b. organising different things**  
 c. comparing things  
 d. designing different things

11. j d fFk; gpwUf;Fk; kfp,rrpAk; gaDk; tpi s fpdw ti fary; vyyh epi yfs,pyk;  
 nghUj j gghLI d; nraygLtJ

- a. # oepi y rhhej J  
**c. kdgg,hdj k rhhej J**  
 b. kd eyk; rhhej J  
 d. nghUshj huk; rhhej J;

Adjusting in all stages and making happiness and usefulness to self and others is

- a. based on environment  
**c. based on attitude**  
 b. based on mental health  
 d. based on economy

12. ft dj j pd; CryhLk; j di kapd; fhy msT

- a. 5 – 20 tpdhbfs;  
 c. 3 – 25 tpdhbfs;  
 b. 10 – 15 tpdhbfs;  
**d. 7 – 10 tpdhbfs;**

Period of fluctuation of attention is

- a. 5 – 20 seconds  
 c. 3 – 25 seconds  
 b. 10 – 15 seconds  
**d. 7 – 10 seconds**

13. SQ3R Ki wahy; NkkgLj j ggL tJ

- a. ftdk; b. ehl j k; c. C f,fk; **d. epi dT**

SQ3R method enhances

- a. attention b. aptitude c. motivation **d. memory**

14. , dW j pq,fs; f,pi k> ehi s kWehS f,F Kei j a f,pi k \_\_\_\_\_

, J vej ti f Nrhj i d?

- a. nghJ mwpT  
 c. fz ij Ma;T  
 b. Ghpe;J nfhs;S j y;  
**d. nrhw,fsQ,rapk;**

Today is Monday, the day before after tomorrow will be \_\_\_\_\_

What type of test is this?

- a. General knowledge  
 c. Mathematical research  
 b. Understanding  
**d. Vocabulary**

15. xgghh; FO vdgJ \_\_\_\_\_ %yk; VwgLfpwJ

- a. Mrphah; + fl ;Lgghl hd # oy;
- b. ngwNwhh; + Rj ej mukhd # oy;
- c. r%f k; + fl ;Lgghl hd # oy;
- d. vj rhghuhky; + Rj ej mukhd # oy;

Peer group is formed by

- a. Teacher + Controlled environment
- b. Parents + Independent environment
- c. Society + Controlled environment
- d. Unexpected + Independent environment

16. fwwy; # oyp; fb; csstwWs; rhpahd thpi r vJ?

- a. fthrrp → ftdk; → epi dT;
- b. epi dT → ftdk; → fthrrp
- c. ftdk; → fthrrp → epi dT;
- d. epi dT → fthrrp → ftdk;

Which of the following is the correct sequence in learning environment?

- a. Interest → Attention → Memory
- b. Memory → Attention → Interest
- c. Attention → Interest → Memory
- d. Memory → Interest → Attention

17. \_\_\_\_\_ epi yap; Foei j fshy; fUj j ffi s cUthff , aYk;

- a. NgRtj wF Kdghf
- b. Ngr Mukgij j TI d;
- c. gpsi sg; gUtj j iy;
- d. gpsi sg; gUtj j pwFg; gpd;

Children are capable of forming concepts

- a. before verbalization
- b. soon after verbalisation
- c. during childhood
- d. after childhood

18. tshrrpfs; rhh; nrayfs; vd w fUj i j Kj d; Kj ypy; gadgLj j path;

- a. n` hghhl;
- b. G&d h;
- c. ` y;
- d. ` htpfh] j;

The concept of developmental task was first used by

- a. Herbart
- b. Bruner
- c. Hull
- d. Havighurst

19. vyyh khz thfS fFk; xNu khj rhpahd nrayfi sf; nfhLj j hYk; mthfs; nttNtW tj khfg; Ghpe; J nfhst; j wFf; fhuz k;

- a. ghypdk;
- b. fwwy; Fi wghL
- c. mDgtk;
- d. kuG.

Because of \_\_\_\_\_ the students understand in different ways though they are given same type of activities.

- a. gender                      b. learning disability                      **c. experience**                      d. heredity

20. RTE vdgj d; t pht hf;fk;

- a. **Right of children to free and compulsory education**  
 b. Right to teacher education  
 c. Right of children to education  
 d. Right towards education.

Expansion of RTE is

- a. **Right of children to free and compulsory education**  
 b. Right to teacher education  
 c. Right of children to education  
 d. Right towards education.

21. fhh Ngh i ` I Nul > Guj k; m fpat wwpd; t sh rpi j kh w w j i j x Oq Fg Lj ; J t J

- a. , d R y p d;                      b. i j u h f r p d;                      **c. m l h d y p d;**                      d. M d r p l h r p d;  
 Hormone which regulates the carbohydrate and protein metabolism is  
 a. Insulin                      b. Thyroxine                      **c. Adrenaline**                      d. Oxytocine

22. 'm k g h x U t p y q F m y y' v d g J

- a. **F i w g l n g h J i k g g i l j j y;**                      b. k p i f g l n g h J i k g g i l j j y;  
 c. f h u z q ; f w g g j j y;                      d. m i l a h s q ; f h Z j y;  
 'Amoeba is not an animal', it is  
 a. **restricted generalization**                      b. extended generalisation  
 c. rationalization                      d. identification

23. g p a h N [ t p d ; f U j ; J g g b j d i d i k a k h f ; f p r e j p f ; F k ; j d i k f h z g g L k ; g U t k ;

- a. G y d ; , a f ; f g ; g U t k ;  
**b. k d r ; n r a y g h l ; L f F K e i j a g U t k ;**  
 c. f z ; \$ l h f g ; g h h g g i j f ; n f h z ; L r e j p f ; F k ; g U t k ;  
 d. K i w a h d k d r n r a y g h l ; L g U t k ;  
 According to Piaget, Egocentrism occurs in  
 a. sensory motor stage                      **b. pre-operational stage**  
 c. concrete operational stage                      d. formal operational stage.

24. k h a x y p N j h d w f ; f h u z k ;

- a. n r t p F i w g h L                      b. r p d k ;  
 c. n g h w h i k                      **d. f t i y**  
 Reason for auditory hallucination is

- a. auditory defect  
c. jealous
- b. anger  
d. worry

25. j ho;T kd gghd; k \_\_\_\_\_ Nehi a VwgLj ;J t j py; Kf;f;ag; gqF t f;f;f;wJ;  
a. M] ;J kh b. Nj hyNeha; c. eh;po;T Neha; d. %l ;L t yp  
Inferiority complex plays a vital role in causing the disease  
a. Asthma b. Skin disease c. Diabetes d. Joint pain

26. Foei j fsJ rhj i di a ghuhl ;Lj y; myyJ Fi w\$ Wj y; vt;t hW  
ghj p;f;f;\$ Lk; vd gJ gw;w;f; \$ w;pa;th;  
a. ` hyhf; b. fhyl d; c. g;pa;hr;d; d. cl ;] ;  
'Praising or criticising affects the success of the child' is said by  
a. Hurlock b. Galton c. Pearson d. Woods

27. t Fggpy; j d;dhy; KbAk; vd mi dj ;J Nti yfi sAk; VwWr; nra;J kf;po;g;th;  
a. Nghl bahff; fwgth; b. gqNfwWF; fwgth;  
c. , i z eJ fwgth; d. Rakhff; fwgth;  
Who enjoys in doing all the works in the classroom voluntarily is  
a. competitive learner b. participatory learner  
c. pair learner d. individual learner

28. fwwy; t] k; =

a. fwwy; Nj hrr;pa;d; msT/ fwWj ; Nj ht; j wF vLj ;J f; nfhz ;l Neuk;

b. fw;w ghl g; nghUs; msT/ fw; Wj ; Nj ht; j wF vLj ;J f; nfhz ;l Neuk;

c. fw; wy; Nj hrr;pa;d; msT/ ghl g; nghUs; msT

d. fw;w ghl g; nghUs; msT/ fi yj ; j pl ;l msT

Rate of learning =

a.  $\frac{\text{Amount of learning proficiency achieved}}{\text{time taken to achieve the amount of learning}}$

b.  $\frac{\text{Amount of the content learnt}}{\text{time taken to achieve the amount of learning}}$  ...

- c.  $\frac{\text{Amount of learning proficiency achieved}}{\text{amount of content}}$
- d.  $\frac{\text{Amount of the content learnt}}{\text{Amount of the curriculum}}$

29.  $\text{gapwrrp msprf;fggl j t shgGg;Gwhi t mDggp Nfhtjy;NfhGuqfspy;teJ cl;fhUk;fhl;Lg;Gwhf;fi s fbpwqfr;nra;J gpbj j y;}$

- a. KadW j t wprf; fwwy;                      b. cwW Nehf;fprf; fwwy;
- c. nraygL Mf;f epi yAWj j k;                  d. Mf;f epi yAWj j k;

By employing domesticated and trained pigeon, bringing down the wild pigeons sitting on temple towers is

- a. Trial and error learning                      b. Observation learning
- c. Operant conditioning                        d. Classical conditioning

30.  $\text{kfporrrp j uhj J}z j y;ki wtj wF Jyqfy;fhuz khf , Uggpd;mJ}$

- a. Nehpi l tYT+l j k;                              b ki wj y;
- c. vj rpi l tYT+l j k;                              d. j z j i d

If a response is responsible for the extinction of unpleasant stimuli, it is

- a. positive reinforcement                      b. extinction
- c. negative reinforcement                      d. punishment

### TAMIL

31.  $\text{Nehaf;F kUeJ , yffpak;vdW \$ wpath;}$

- a. fi ythz h;                                          b. kfhtj j t hd; kbhl rp Rej udhh;
- c. ftpkz p                                              d. ghuj pj hrd;

32.  $\text{, uhkhD [ d;rhj huz kdj uyyh;mth; , i wtd;j ej g;ghpR vdf; \$ wpath;}$

- a. Nguh <bngy<bngy;                              b. vbrd;
- c. yhh nkz j yz j;                                  d. rhhy] ;

33.  $\text{thz pj hrd;gpwej Ch;}$

- a. kJ i u                                              b. Nfush                                              c. tqfhs k;                                              d. tpyyaD]H.

34.  $\text{kJ i u tj prspd;ngahfspy; , J xdwy}$

- a. \$ ytj p                                              b. nghd;tj p                                              c. kd;d h;tj p                                              d. ghz h; tj p

35.  $\text{cyi fNa eLqfr;nraj nfhLqNfhyuhf ` pl yh; , Uej hYk> mti uNa}$

- kd;dpgGf;Nfl;f nraj khtld;  
 a. j hk] ;My;th vbrd;                      b. rhhy] ;  
 c. G.U. Nghg;                                      **d. nrz gfuhkd;**
36. tpfNI hpah kfhuhz pahh; fhi yary; fz ; tpoj j Jk; Kj yry; gbfFk; E}y;  
 a. i ggps;                      b. **j pUfFws;**                      c. j pUthrfk;                      d. Nkhl rgaz k;
37. ki yAk;ki yr;rhhej , l Kk;  
 a. Kyi y                      b. kUj k;                      c. neaj y;                      d. **FwQrp**
38. vOj ;J f;fs;pd;gpwgi g , l ggwvG> \_\_\_\_\_ vd , Uti fahfg;ghpff;fyhk;  
 a. xyggwvG                      b. **Kawrp gwvG.**  
 c. ehgwvG                      d. mz z ggwvG
39. j kp; vz ;Z Uffi s vOJ f. 19>25:  
 a. fm                      b. **f\$cu**                      c. cc                      d. ff
40. GJ fftpi j tshrr;ary; \_\_\_\_\_ gq;F Nghwwj j ffJ;  
 a. **tyy;ffz z d;**                      b. ghuj pahh;  
 c. i tuKj ;J                      d. Ruj h
41. ghkG tpt rhap;fs;pd;  
 a. gi ftd;                      **b. ez gd;**                      c. cwt;pd;                      d. rNfhj ud;
42. Foei j fs; kfp;rr;Al d; Mut hhj ;J g; ghLk; tpi sahl ;Lg;ghl y;fs;  
 a. j hyhl ;Lg;ghl y;fs;  
 b. topghl ;Lg;ghl y;fs;  
 c. nj hopy;ghl y;fs;                      **d. ehl ;LgGw;ghl y;fs;**
43. MwWz h vd;gj d; nghUs;  
 a. Mwpa cz T                      b. eyy cz T  
**c. fl ;LrNrhW.**                      d. ri kj j cz T
44. j h\$ hpd; t pRt ghuj p fy;Y}hp \_\_\_\_\_ kheyj j py; CSSJ  
 a. F [uhj                      **b. NkwFt qfhs;**  
 c. m] ;] hk;                      d. gifhh;
45. gd;d;uz ;L taj pNyNa kwNghh> rpykgk> ths; tR vd;  
 tlf;fi yfi snayyhk; fwWj ;Nj hej pUej rWtd;  
 a. ghz ba neLQnropad;                      **b. Gyj Nj td;**  
 c. tlgghz bad;                      d. , katukgd;



46. j Qi rg; nghpa Nfhapy; FI KOFF ei I ngww Mz ;L  
 a. **fpgp 1010** b. fpgp 1500.  
 c. fpgp 1020 d. fpgp 2000
47. nghUs; \$ Wf: Fi t  
 a. \$ I j k; b. **Ftpay**; c. Fkgy; d. Nfhhj J;
48. epfz ;Lfsy; goi kahdJ vJ?  
 a. **Nrej d; j pthfuk**; b. kz j y GUI h;  
 c. mfuhj p d. rJ ufuhj p
49. mwptpay; fi yrnry; fsQrpak; \_\_\_\_\_ Mz ;L ntsapl ggl j J  
 a. 1993 b. **1991** c. 1990 d. 1992
50. MqfNyai u vj thj J MAj k; Vej pg; Nghuhba Kj yh; ngz kz p  
 a. **Nt Yehrrpahh**; b. mQri yakkhs;  
 c. mkG[j j kks; d. i t.K. Nfhi j ehafp mkkhs;
51. nts thy; kuj j py;  
 a. **nj hqFk**; b. cwqFk; c. MLk; d. , UfFk;
52. Nfhbl l , l j j epugGf:  
 ftkz p Nj rpf tpehafk; gpsi s , awwp E}y; \_\_\_\_\_  
 a. ghz bad; ghpR b. ghggh ghl ;L  
 c. FLkg tpsfF d. **ckhfaahk; ghl yfs**;
53. vOj j hsh; nj hl ;L vOj f;\$ I hj i k  
 a. ngUi k b. **nghaj k** c. J}ai k d. cz i k
54. \_\_\_\_ vd;Dk; E}y; nj hz Z }wW xdgJ ti fahd Gff;spd; ngahfs; , Uej d.  
 a. Kyi ygghl ;L b. **FwQrgghl ;L**  
 c. gl bdgghi y d. gj pwWggj J
55. gwi tfi s \_\_\_\_\_ ti fahfg; ghpff;fyhk;  
 a. **I e;J** b. MW c. %dW d. vl ;L
56. eNtj dk; vdw nrhyypd; nghUs;  
 a. cz T b. mWRi t cz T  
 c. ey; cz T d. **gi l aKJ**.

57. fd fk; vd gj d; nghUs;  
 a. nry;tk; **b. nghd;** c. kz p d. Kj ;J
58. kh d t p[ ak; vd ;Dk; ehl fk; \_\_\_\_\_ vd ;Dk; , yf;fpaj i j mbggi l ahff;  
 nfhz ;J  
 a. fhh; ehwgJ **b. fst opehwgJ**  
 c. mfehD}W d. GwehD}W
59. j kp; ehl fj ; j ei j vdW , dwsTk; cyfk; Nghwpp tz qFgth;  
**a. gkky; rkgej dhh;** b. gl ;LfNfhl i l  
 c. r;qfuj hr RthkpfS; d. nj .ngh. fpU ~ z rhkp
60. fhaf;sp d; , si k kuG ngai u vLj ;J vOJ f.  
 mt i ug; G+QR> thi o \_\_\_\_\_  
 a. G+ b. fha; **c. frry;** d. %R

PART III – LANGUAGE PAPER  
 ENGLISH

61. Find the italicized part in the sentence that is incorrect:  
 In some Countries in Europe teachers are allowed giving children  
 some home work only at weekends  
 1 2 3  
 4  
**a. 1** b. 2 c. 3 d. 4
62. Choose the correct form of the verb to complete the sentence:  
 When \_\_\_\_\_ this morning?  
 a. did you woke up **b. did you wake up**  
 c. have you woken up d. were you woke up
63. Choose the correct answer form of the verb to complete the sentence:  
 We \_\_\_\_\_ volleyball yesterday  
**a. played** b. have played  
 c. had played d. have been playing
64. Choose the correct word to complete the sentence:  
 There is very \_\_\_\_\_ petrol in the car. I'll buy some when I go out.  
 a. few b. much c. a little **d. little**

65. Choose the correct word to complete the sentence:

He apologized \_\_\_\_\_ being late

- a. to            **b. for**            c. on            d. of

Read the passage given below and choose the best answer for each of the questions

Most human beings are awake during the day and sleep at night. Owls live the opposite way. Owls are nocturnal. This means that they sleep all day and stay awake at night. Because owls are nocturnal, this means they must eat at night. But finding food in the dark is difficult. To help them, they have a special eyes and ears.

Owls have very large eyes. These eyes absorb more light than normal. Since there is little light during the night. It is helpful to be able to absorb more of it. This helps owls find food in the dark

Owls also have very good hearing. Even when owls are in the trees, they can hear small animals moving in the grass below. This helps owls catch their prey even when it is very dark.

Like owls, mice are also nocturnal animals. Mice have an excellent sense of smell. This helps them find food in the dark.

Being nocturnal helps mice to hide from many different animals that want to eat them. Most of the birds, snakes and lizards that like to eat mice sleep at night – except, of course, owls!

66. The word 'diurnal' is the opposite of the word 'nocturnal'. Using information

in the passage, we can understand that an animal that is 'diurnal'

- a. sleeps at night and is awake during the day**  
b. hunts during the day and is awake at night  
c. sleeps every other night and is awake during the day  
d. hunts at night and sleeps during the day

67. Based on information in Paragraph 2, it can be understood that an animal with small eyes

- a. must be diurnal  
c. can see very well at night
- b. **has trouble seeing in the dark**  
d. must be nocturnal
68. According to the passage, owls can find food in the dark using their sense of
- a. sight only  
c. sight, sound and smell
- b. **sight and sound**  
d. sight and smell
69. In paragraph 3 the author writes. "This helps owls catch their prey even when it is very dark". What is prey?
- a. A noise that an animal makes during the night  
b. A small animal such as a pet dog or cat  
c. **An animal that is hunted by other animals**  
d. An enemy
70. According to the passage, mice sleep during the day in order to
- a. find food that other animal cannot  
b. **keep themselves safe**  
c. store energy for night time activities  
d. stay awake at night
71. Using the information in the last paragraph, it can be understood that
- a. **owls hunt mice**  
b. mice can hide from owls  
c. mice and owls both hide from birds, snakes and lizards  
d. owls sleep at night
72. Which of the following conclusions would work best at the end of this passage?
- a. The owl is a nocturnal animal. This means it is active at night. The owl's excellent sense of sight and sound enables it to find food in the dark.  
b. Mice are nocturnal animals. This means they are active at night. Similar to the owl. Mice use their excellent sense of smell to find food in the dark  
c. **Some animals are nocturnal. This means they are active at night.**  
d. **the owl and the mouse are good examples of animals but the use their senses to find food in the dark**  
e. The owl and the mouse sleep during the day and stay awake at night

73. Choose the right question to get italicized part as the answer

The Children are sitting in the garden

- a. Where do children sit?
- b. Where have the children been sitting?
- c. **Where are the children sitting?**
- d. Where are they sitting?

74. Find out the pronounced differently from the others

- I. blood
- II. moon
- III. soon
- IV. mood

- a. **I**
- b. II
- c. III
- d. IV

75. Find the word that is pronounced differently from the others

- I. bear
- II. dare
- III. fare
- IV. dear

- a. I
- b. II
- c. III
- d. **IV**

76. Find the word that is pronounced differently from the others

- I. enjoyed
- II. jumped
- III. died
- IV. filled

- a. I
- b. **II**
- c. III
- d. IV

77. Find the italicized part in the sentence that is incorrect

It is a well idea to encourage boys to learn to cook

- 1
  - 2
  - 3
  - 4
- a. **1**
  - b. 2
  - c. 3
  - d. 4

78. Choose the word which has almost the same meaning as the italicized one

I help them to *assemble* the different parts

- a. manufacture
- b. store
- c. check
- d. **fit**

79. Choose the correct antonym for the italicized word

Travelling is considered very *dangerous*

- a. harmful
- b. peaceful
- c. **safe**
- d. exciting

80. Choose the correct antonym for the italicized word

This is a *common* thing

- a. **strange**                      b. funny                      c. real                      d. special

81. Read the short conversation given below. Identify the language function in the

italicized sentence

Shrimathy : That remark was uncalled for

Venu: I'm Sorry. I shouldn't have said it

- a. **apologizing**                      b. wishing                      c. blaming                      d. forgiving

82. Read the short conversation given below. Identify the language function in the

italicized sentence

Arun: What shall we do this weekend?

Sheela: Why don't we go on a picnic?

- a. welcoming                      b. inviting                      **c. suggesting**                      d. advising

83. Choose the correct question tag

Mary has answered all the questions .....

- a. doesn't she                      b. didn't she                      c. wasn't she                      **d. hasn't she**

84. Choose the correct question tag

Hanif wasn't listening .....

- a. was he**                      b. has he                      c. did he                      d. isn't he

85. Choose the right question to get the italicized part as the answer

Hari is writing a letter

- a. What does Hari write?                      b. **What is Hari writing?**  
c. Who is writing a letter?                      d. What is Hari doing?

86. Choose the correct word to complete the sentence

We are satisfied ..... our son's progress this term

- a. for                      b. on                      c. about                      **d. with**

87. Which of the following is a form of the verb 'be'?

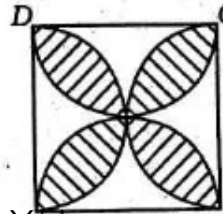
- a. may                      **b. am**                      c. can                      d. will

88. The passive form of the sentence 'The Blue team won the game' is
- The game is won by the blue team
  - The game has been won by the blue team
  - The game had been won by the blue team
  - the game was won by the blue team**
89. The reported form of the question Renu said to me, "Is the movie interesting?" is
- Renu asked me if the movie was interesting**
  - Renu asked me if the movie has been interesting
  - Renu asked me if the movie is interesting
  - Renu asked me if the movie had been interesting
90. Choose the word which has almost the same meaning as the italicized one. She seldom goes to conference
- nearly
  - rarely**
  - slightly
  - incredibly

PART IV  
 gFj p - IV  
 MATHEMATICS

91. xU F s p h r h j d g n g l b a p d ; k U 9 % t p w g i d t h p t j k ; t p w g i d t h p & . 1 > 1 7 0 v d p y ; m j d ; m l f f t p i y
- &.10,530
  - &.12,960
  - &.13,000**
  - &.20,000
- The sales tax on a refrigerator at the rate of 9% is Rs.1,170, then the actual sale price is
- Rs.10,530
  - Rs.12,960
  - Rs.13,000**
  - Rs.20,000
92. u h K t p d ; j w N g h i j a t a J m t U i l a j e i j a p d ; t a j p y ; g h j p a h F k ; g j p i d e J M z ; L f S f ; F K d G j e i j a p d ; t a j h d J u h K t p d ; t a i j g N g h y ; K k k l q f h f , U e j J v d p y ; m t h f s p d ; j w N g h i j a t a J
- 42, 84
  - 24, 84
  - 40, 80
  - 24, 48
- Ramu is now half as old as his father. Fifteen years ago the father's age was three times as old as Ramu. Then their present ages are

- a. 42, 84                      b. 24, 84                      c. 40, 80                      d. 24, 48



93. Easwari deposited Rs.350 per month for 6 years in a recurring deposit account in a post office. If she received Rs.32,865, then the rate of interest is

- a. 6%                      b. 10%                      c. 15%                      d. 8%

Easwari deposited Rs.350 per month for 6 years in a recurring deposit account in a post office. If she received Rs.32,865, then the rate of interest is

- a. 6%                      b. 10%                      c. 15%                      d. 8%

94. The radius and height of a cylinder are in the ratio 5 : 7. If its volume is 440 cu. cm then the radius of the cylinder is

- a. 10 cm                      b. 25 cm                      c. 15 cm                      d. 20 cm

The radius and height of a cylinder are in the ratio 5 : 7. If its volume is 440 cu. cm then the radius of the cylinder is

- a. 10 cm                      b. 25 cm                      c. 15 cm                      d. 20 cm

95. Find the area of the shaded portions in the figure, where ABCD is a square of side 21 cm.

- a. 140 cm<sup>2</sup>                      b. 256 cm<sup>2</sup>                      c. 252 cm<sup>2</sup>                      d. 272 cm<sup>2</sup>

96. The three angle bisectors of a triangle are concurrent and the point of concurrence is called the

- a. circumcentre                      b. orthocenter                      c. centroid                      d. incentre

The three angle bisectors of a triangle are concurrent and the point of concurrence is called the

- a. circumcentre                      b. orthocenter                      c. centroid                      d. incentre



97. Two circles of radii  $r_1$  and  $r_2$  touch internally, the distance between their centres is equal to
- a.  $r_1 + r_2$                                   b.  $2r_1$                                   c.  $2r_2$                                   **d.  $r_1 - r_2$**
98. A, B and C can do a work in 12, 15 and 20 days respectively. They all work for one day. Then B leaves the group. In how many days will A and C complete the rest of the work?
- a. **8 days**                                  b. 7 days                                  c. 9 days                                  d. 6 days
99. Area of a trapezium is  $33.32 \text{ cm}^2$ . Its one side is 8 cm and height 5.6 cm, then the other side is
- a. 11.9 cm                                  **b. 3.9 cm**                                  c. 8.9 cm                                  d. 5.9 cm
100. The mean of the mode and median of the following data 17, 15, 9, 13, 24, 7, 12, 21, 10, 24 is
- a. 21                                  b. 24                                  **c. 19**                                  d. 14
101.  $x - y = 6$ ,  $xy = 4$  find  $x^3 - y^3$
- a. 272                                  b. -288                                  c. 248                                  **d. 288**

If  $x - y = 6$  and  $xy = 4$  then the value of  $x^3 - y^3$  is

- a. 272                                      b. - 288                                      c. 248

**d. 288**

102.  $x^3 - 3x^2 - x + 3$  is a factor of  $(x + 1)(x + 3)$  then the other factors are

- a.  **$(x - 1), (x - 3)$**                                       b.  $(x - 1), (x + 2)$                                       c.  $(x + 1)(x + 3)$                                       d.  $(x + 1), (x - 3)$

If one of the factors of the expression  $x^3 - 3x^2 - x + 3$  is  $(x + 1)$ , then the other factors are

- a.  **$(x - 1), (x - 3)$**                                       b.  $(x - 1), (x + 2)$                                       c.  $(x + 1)(x + 3)$                                       d.  $(x + 1), (x - 3)$

103. Two numbers are in the ratio 5 : 3. If they differ by 18, then what are the numbers?

- a. 42, 57                                      b. 54, 72                                      **c. 45, 27**                                      d. 47, 52

Two numbers are in the ratio 5 : 3. If they differ by 18, then what are the numbers?

- a. 42, 57                                      b. 54, 72                                      **c. 45, 27**                                      d. 47, 52

104. The LCM of  $3a^2bc$ ,  $5ab^2c$ ,  $7abc^2$  is

- a.  $35a^2bc^2$                                       b.  **$105a^2b^2c^2$**                                       c.  $15a^2b^2c^2$                                       d.  $105abc$

The LCM of  $3a^2bc$ ,  $5ab^2c$ ,  $7abc^2$  is

- a.  $35a^2bc^2$                                       b.  **$105a^2b^2c^2$**                                       c.  $15a^2b^2c^2$                                       d.  $105abc$

105. The cost price of 11 pens is equal to the selling price of 10 pens. The profit percent is

- a. **10%**                                      b. 100%                                      c. 11%                                      d. 21%

The cost price of 11 pens is equal to the selling price of 10 pens. The profit percent is

- a. 10%**                                      b. 100%                                      c. 11%                                      d. 21%

106. A park is in the shape of semicircle with radius 14 m. The cost of fencing it at the cost

of Rs. 576

- a. Rs.576**                                      b. Rs.657                                      c. Rs.756                                      d. Rs.765

A park is in the shape of semicircle with radius 14 m. The cost of fencing it at the cost

of Rs.8 per metre is

- a. Rs.576                      b. Rs.657                      c. Rs.756                      d. Rs.765

107. Rahul invested Rs.5,000 at the rate of 8% simple interest per annum. Hereceived Rs.5,800 after some years. The number of years is

- a.3 tUl qfspy;                      b.2 tUl qfspy;                      c.4 tUl qfspy;                      d.5 tUl qfspy;

Rahul invested Rs.5,000 at the rate of 8% simple interest per annum. Hereceived Rs.5,800 after some years. The number of years is

- a. 3 years                      b. 2 years                      c. 4 years                      d. 5 years

108. The mean mark of 100 students was found to be 40. Later on, it was found that a score of 53 was misread as 83. The correct mean corresponding to the correct score is

- a. 39.7                      b. 37.9                      c. 29.7                      d. 27.9

The mean mark of 100 students was found to be 40. Later on, it was found that a score of 53 was misread as 83. The correct mean corresponding to the correct score is

- a. 39.7                      b. 37.9                      c. 29.7                      d. 27.9

109. The mean of the 5 numbers is 32. If one of the numbers is excluded, then the mean is reduced by 4. The excluded number is

- a. 84                      b. 42                      c. 48                      d. 24

The mean of the 5 numbers is 32. If one of the numbers is excluded, then the mean is reduced by 4. The excluded number is

- a. 84                      b. 42                      c. 48                      d. 24

110. The sum of three numbers is 754. If one of the numbers is excluded, the sum of the remaining two numbers is 495. The excluded number is

- a.&.495                      b. &.754                      c. &.854                      d. &.954

A garden is in the form of a rectangle of dimension 30 m x 20 m. A path of width 1.5 m is laid all around the garden on the outside at the rate of Rs.6 per sq.m. What is the total expense?

- a. Rs.495                      b. Rs.754                      c. Rs. 854                      d. **Rs. 954**

111. Simplify:  $2\sqrt[3]{40} + 3\sqrt[3]{625} - 4\sqrt[3]{320}$

- a.  $16\sqrt[3]{2}$                       b.  $5\sqrt[3]{3}$                       c.  **$3\sqrt[3]{5}$**                       d.  $3\sqrt[3]{4}$

simplify:  $2\sqrt[3]{40} + 3\sqrt[3]{625} - 4\sqrt[3]{320}$

- a.  $16\sqrt[3]{2}$                       b.  $5\sqrt[3]{3}$                       c.  **$3\sqrt[3]{5}$**                       d.  $3\sqrt[3]{4}$

112. In a triangle ABC,  $\angle BAC = 65^\circ$ ,  $\angle BAE = 58^\circ$  where E is a point on AC. Find  $\angle ABC$ .

- a.  $180^\circ$                       b.  $90^\circ$                       c.  **$57^\circ$**                       d.  $123^\circ$

113. A sector of a circle of radius 42 cm and containing an angle of  $240^\circ$  is cut off and folded into a cone. Find the curved surface area of the cone.

- a.  $4624 \text{ nr.km}^2$                       b.  **$3696 \text{ nr.km}^2$**                       c.  $6369 \text{ nr.km}^2$                       d.  $6639 \text{ nr.km}^2$

A sector containing an angle of  $240^\circ$  is cut off from a circle of radius 42 cm and folded into a cone, then the curved surface area of the cone is

- a.  $4624 \text{ cm}^2$                       b.  **$3696 \text{ cm}^2$**                       c.  $6369 \text{ cm}^2$                       d.  $6639 \text{ cm}^2$

114. A circle of radius 12 cm is cut off from a circle of radius 18 cm. Find the area of the remaining part of the circle.

- a. 20 ehl fS;                      b. 18 ehl fS;                      c. 28 ehl fS;                      d. **24 ehl fS;**

Eight men working 9 hours a day can do a piece of work in 28 days. In how many days will 12 men working for 7 hours a day do the same work?

- a. 20 days                      b. 18 days                      c. 28 days                      **d. 24 days**

115. 100 measurements are taken. The largest measurement is 3.84 kg. If the range is 2.46 kg, then the smallest measurement is

- a. 1.38 kg**                      b. 3.38 kg                      c. 2.38 kg                      d. 6.30 kg

The largest of 100 measurements is 3.84 kg. If the range is 2.46 kg, then the smallest measurement is

- a. 1.38 kg**                      b. 3.38 kg                      c. 2.38 kg                      d. 6.30 kg

116. The measures of the angles of a triangle are in the ratio 2 : 4 : 6, then the angles of the triangle are

- a. 30°, 60°, 90°**                      b. 20°, 70°, 90°                      c. 40°, 60°, 80°                      d. 26°, 58°, 96°

The measures of the angles of a triangle are in the ratio 2 : 4 : 6, then the angles of the triangle are

- a. 30°, 60°, 90°**                      b. 20°, 70°, 90°                      c. 40°, 60°, 80°                      d. 26°, 58°, 96°

117. If  $x = 2 + \sqrt{3}$ , then the value of  $x^2 - \frac{1}{x^2}$  is

- a. 14                      **b.  $8\sqrt{3}$**                       c.  $4\sqrt{3}$                       d. 0

If  $x = 2 + \sqrt{3}$ , then the value of  $x^2 - \frac{1}{x^2}$  is

- a. 14                      **b.  $8\sqrt{3}$**                       c.  $4\sqrt{3}$                       d. 0

118. The distance between two places is  $61\frac{2}{3}$  km. If a two wheeler takes  $61\frac{2}{3}$  hours to cross the

distance, then what is the speed of the two wheeler?

- a. 25 km                      b. 40 km                      c. 35 km                      d. 20 km

The distance between two places is  $61\frac{2}{3}$  km. If a two wheeler takes  $61\frac{2}{3}$  hours to cross the

distance, then what is the speed of the two wheeler?

- a. 25 km                      b. 40 km                      c. 35 km                      d. 20 km

119. 1, 2, 5, 6, 14, 24, 30, 120, ..... The next number of the sequence

- a. 91                      b. 55                      c. 720                      d. None of these

The next number of the sequence 1, 2, 5, 6, 14, 24, 30, 120, .....

- a. 91                      b. 55                      c. 720                      d. None of these

120.  $\frac{4}{5} + \frac{7}{2} \div \left(\frac{5}{2} - \frac{3}{4}\right) \times \frac{7}{8}$  is equal to

- a.  $1\frac{6}{20}$                       b.  $3\frac{5}{20}$                       c.  $2\frac{11}{20}$                       d.  $5\frac{1}{20}$

$\frac{4}{5} + \frac{7}{2} \div \left(\frac{5}{2} - \frac{3}{4}\right) \times \frac{7}{8}$  is equal to

- a.  $1\frac{6}{20}$                       b.  $3\frac{5}{20}$                       c.  $2\frac{11}{20}$                       d.  $5\frac{1}{20}$

### Part V – Environmental Studies

121. Marconi invented the radio with the help of the invention made by

- a. Vikram A. Sarabhai                      b. Jagadish Chandra Bose

- c. Charles Babbage  
f b f f h Z k ; x U t h p d ; f z ; L g p b g g p d ; c j t p N a h L k h h N f h d p N u b N a h i t ;  
f z ; L g p b j j h h ;
- a. t p f u k ; A. r h u h g h a ;  
c. r h h y ] ; g h g h [ ;
- d. Pascal  
b. n [ f j ; r e j p N g h ] ;  
d. g h ] f y ;
122. Identify the wrong pair with reference to milching animals
- a. Gir, Sindhi  
c. **Gir, Murrah**
- b. Jersey, Caronswiss  
d. Sindhi, Jersey
- g p d ; t U k ; f w i t k h L , i z f s p y ; j t w h d , i z v J ?
- a. f p h > r p e j p  
c. f p h > **Kuh**
- b. n [ h ; [ p f h u d ; ] t p ] ;  
d. r p e j p n [ h r p
123. A typical example of visual, non project 3 -D aid is
- a. **Realia**  
c. OHP
- b. Television  
d. Radio
- f z ; Z W > t b j j h K g g h p k h z c g f u z j j p w ; F v L j ; J f f h l ; L ;
- a. e p [ g g l k  
c. N k y g l t b j ; J (OHP)
- b. n j h i y f f h l r p  
d. N u b N a h
124. Which of the following is the odd criterion of a good test
- a. **Objectivity**  
c. Reliability
- b. Acceptability  
d. Clarity
- x U e y y N j h ; T f F , y y h f h u z p i a m i l a h s k ; f h z . f .
- a. **G w t a j j d i k**  
c. c z i k j d i k
- b. V w W f n f h s S j y ;  
d. v s p i k
125. The philosophy behind the project method is
- a. naturalism  
c. constructivism
- b. idealism  
d. **Pragmatism**
- n r a y j p l l K i w a p Y s s j j ; J t k ;
- a. , a w i f n f h s i f  
c. c U t h f ; F k ; n f h s i f
- b. f U j j p a y ; n f h s i f  
d. **g a d s i t n f h s i f**
126. Melagiri hills is situated in the district of
- a. **Krishnagiri**  
c. Dindigul
- b. Erode  
d. Coimbatore
- N k y f p h p k i y f N o F w p g g p l l v e j k h t l l j j p y ; m i k e ; J s s J ?
- a. **f p U \ z f p h**  
c. j p z ; L f f y ;
- b. < N u h L  
d. N f h a k G j ; J } h ;

127. Mamallapuram and chengalpattu are famous for which work
- Weaving of silk
  - Soap stone carving
  - Red and black pottery
  - Granite carving**

khkyyGuKk> nrqfygl ;Lk; fbfhZ k; fi yfSjy; vj wF Gfongwwi t?;

- gl ;L nerT
- NrhgG fy; nrJ fFj y;
- fUgG kwWk; nreepw kl ghz ;l k; nraj y;
- fphi dl ;nrJ fFj y;**

128. A student after receiving the content of a subject, is able to analyse the content. The behavioural change belongs to the domain/s

- cognitive and affective
- cognitive only
- affective and psychomotor
- affective only

ghl gnghUi s Ghpe;J nfhz ;l gpd; khz t d; ghl j i j gFj j ha;T nraaKbfwJ?

, ej el j i j

khwwk; Fwppf;fpw gFj p

- mwvj y; gFj p kwWk; cz hrrp gFj p
- mwvj y; gFj p kl ;Lk;
- cz hrrp gFj p kwWk; Kawrp rhh; gFj p
- cz hrrp gFj p kl ;Lk;

129. "Lesson plan is the outline of the important points of a lesson arranged in order in which they are to be presented to the students by the teacher".

This

definition is of

- International Dictionary of Education
- Lester B. Stands
- W. M. Ryburn
- Bining and Bining

ghl j j pl ;l k; vdgJ xU ghl j j pd; Kff;fpakhd FwpgGfi s thpi rggLj j p

khz thfS fF Mrhpah; vLj ;J nry;Yk; Ki w'. , t;ti ui ai w msj j J

- fy;tp cyf mfuhj p
- ny] ;l h; B. ] ;l hz ;l ] ;
- W.M. i ughd;
- gpd;d pq; mz ;L gpd;d pq;

130. Which chart is used to present the growth of a family right from their ancestors

- Flowchart
- Tablechart
- Treechart**
- Timechart

F Lkg rej j p tshrrpapi d mthf;spd; Kd;Ndhh;f;spy; , Ue;J nj hpaggLj ;J k;



ti ugl k;

- a. Nghf;F ti ugl k;  
c. **fj s ti ugl k;**

- b. ml; ti z ti ugl k;  
d. fhy ti ugl k;

131. A child is suffering from bleeding gums and loosening of teeth. The names of

the disease and the vitamin that is deficient are

- a. **Scurvy, Vitamin C**  
c. Rickets, Vitamin D

- b. Haemorrhage, Vitamin K  
d. Pellagra, Vitamin B<sub>5</sub>

Foei j fs;VwgLk;<Wfs; , uj j k; t bj y; kwWk; gy; t;Oj YfF  
fhuz khdi t;l; kpd; gwwhf;Fi w Neha;

- a. **] fht; i t;l; kpd; C**  
c. hpf;nfl; ] > i t;l; kpd; D

- b. ` kNu] > i t;l; kpd; K  
d. ngyyfuh> i t;l; kpd; B<sub>5</sub>;

132. The part where cones are densely packed within the right eye is

- a. sclerotic coat  
c. lens

- b. choroid coat  
d. fovea

t yJ fz z pd; vggFj p; \$ kG nry; s; ml hj j pahf fhz ggLfwJ?;

- a. ] f; Nuhl bf; ci w  
c. nyd; ] ;

- b. Nfhual; ci w  
d. **Nght; pah**

133. A student of IVth class placed certain things in a first aid box. Find the odd

man out

- a. forceps  
c. **syringe**

- b. sodium chloride  
d. pair of scissors

ehd;fhk; t FgG gbf;Fk; khz t Kj Yj t; ngl bary; fb;fhZ k; nghUl; fi s  
i t; J sshd; , j py; j twhdJ vJ?

- a. , Lff; p  
b. Nrhbak; FNshi uL

- c. **Crp%yk; kUe;J cl nrYj; Jk; fz z hb Foy;**  
d. fj j hpfNFhy;

134. The plant that has the best air purifying capacity in the world is

- a. valisneria  
c. palm

- b. **bamboo**  
d. jatropha

cyf;Yss j ht uq;fs; kpf; j ; wkgf fhwi w Rj j pfh;Fk; j di kAi l a  
j htuk; vJ?

- a. thyp] eh; pah  
c. gi d

- b. %q; fy;  
d. [ l Nuhgh

135. A man is riding a bicycle. The motion(s) observed is(are)
- only linear motion
  - only circular motion
  - oscillatory and circular motions
  - linear and circular motions**
136. The permanent employee of the village Panchayat is the
- President of the Panchayat
  - Vice President of the Panchayat
  - senior most citizen of the Panchayat
  - Secretary of the Panchayat**
137. If a person wants to cross the road where there is no zebra – cross, he has to
- look to his right and cross the road
  - first look to his right, then left and then right again and cross the road
  - look to his left and cross the road
  - first look to his right, then left and cross the road.**
138. The wheel (chakra) on our National flag has the colour and the number of spokes respectively are
- Navy blue, 24**
  - Royal blue, 24
  - Peacock blue, 22
  - Cyan, 22

Muqf;spd; vz z pfi fAk; Ki wNa

- a. **ml h; eYk> 24**                      b. uhay; eYk> 24  
 c. kapyNj hi f eYk> 22                d. rahd> 22

139. Bow and arrow was the emblem of which kingdom

- a. Cholas                                      b. Chalukyas  
 c. **Cheras**                                      d. Pandyas  
 tpy;Yk> mkGk;vej murUi l a rpd;dqfshf tpsqfpaJ?

- a. Nrroh;fs;  
 c. **Nruh;fs;**                                      d. ghz bah;fs;

140. The traveler who came to India through the Kashmir valley during the reign

of Harshavardhana was

- a. Fa - Hien                                      b. **Hieun - Tsang**  
 c. Ibn Batuta                                      d. Megasthenes

` h;~ h; fhyj j py; fh~ kh; gssj j hfF topahf , ej pa ehl bwF tej P  
 ntspohl ;L gaz p

- a. gh` pahd;                                      b. **Athd;Rthq;**                                      c. , gd;gJ }j j h                                      d. nkf] j d p] ;

141. Double fertilization occurs only in

- a. salamander                                      b. fresh water fishes  
 c. **all seed producing flowers**                                      d. aquatic plants

, ul j l fUTWj y; , j py; kl ;Lk; fhz ggLfwJ

- a. rhykhz ;j h;                                      b. ed;d h; kb;f sP  
 c. **vyyh tpi j fi s cUthfFk;G;ffs;**                                      d. ehj ;j ht uqs;

142. The importance of the year 1983 with reference to wildlife is

- a. Indian Board for wildlife was formed  
 b. **National wildlife Action plan was introduced**  
 c. Wildlife Protection Act came into force  
 d. Establishment of National Parks by the Government of India

t dcahp;dqfi s nghWj ;J 1983k; Mz ;L Kf;fpaj ;J tk; thaej J. Vnd dpy;

- a. t dcahp;d ghJ fhgG thhpak; cUthdJ  
 b. **Nj rpa t dcahp;d nrayj p ; k; mwKfggLj j ggl ; J**  
 c. t dcahp;d ghJ fhgG r l ; k; ei l Ki wfF tej J  
 d. , ej pa murhy; Nj rpa G;q;fhf;fs; cUthf;fggl ; J

143. The exotic variety of honeybee is

- a. Apis dorsata                                      b. Apis florae

- c. Apis indica  
 , j py; vJ ntspehl ;L Nj dPt i f?  
 a. Vgp] ; NI hhrI ; h  
 c. Vgp] ; , z ðfh
- d. **Apis adamsoni**  
 b. Vgp] ; GNShhpNa  
 d. **Vgp] ; MI kNrhdp**

144. Which one of the following is not true in respect of water  
 a. Water in the aquifers is not useful to human beings  
 b. Most of the fresh water reaches to the ocean through rivers  
**c. The moisture in the soil indicates the presence of water**  
 d. Precipitation in the form of rain or snow provides fresh water to our earth.

- gp d; t UK; \$ w; Wfs py> eñ u gwwpa j t whd \$ w; W vJ?  
 a. eh; C w; Wfs pY s s eh; kdij Df; F gadg L t j pyi y  
 b. MWfs p d; %ykhf ed d h; fl Yl d; fyf; f p w J  
**c. kz z p d; < u j j d i k > eh; c s s i j c z h j J f p w J**  
 d. ki ongho p T myy J g d l n g h o p T %ykhf e py j j p w; F ed d h; t e j i l f p w J

145. While burning the fuels the pollutant that reacts with Hemoglobin and makes

- the man leading to death is  
 a. SO<sub>2</sub>      b. O<sub>3</sub>      **c. CO**      d. CH<sub>4</sub>  
 v h p n g h U i s v h p g g j d %ykhf n t s p a p L f p d w \_\_\_\_\_ k h R k d j j  
 , u j j j j p Y s s ` N k h F N s h G y p D l d ; t p i d G h p e ; J , w g G V w g L f p w J  
 a. SO<sub>2</sub>      b. O<sub>3</sub>      **c. CO**      d. CH<sub>4</sub>

146. Identify the correct match in respect of major plates and smaller plates of pangaca respectively

- a. Antarctica-North America  
 b. South America-Africa  
 c. Australian-Arabian  
**d. Eurasia-Pacific**  
 g h q f p a h t p d ; n g h p a j l ; L f ; f s ; k w W k ; r p w p a j l ; L f s ; r h p a h f n g h U e j p A s s i j  
 N j h ; f :  
 a. m z ; l h h b f h - t l m n k h p f ; f h  
 b. n j d ; m n k h p f ; f h - M g g h p f ; f h  
 c. M ] j p N u y p a h - m u g p f ; f l y ;  
**d. A ; N u r p a h - g r i g p f ; f l y ;**

147. Equal day and equal night happen on which of the following days

- a. **March 21<sup>st</sup>, September 23<sup>rd</sup>**      b. May 18<sup>th</sup>, December 20<sup>th</sup>

- c. January 14<sup>th</sup>, June 16<sup>th</sup>      d. June 20<sup>th</sup>, December 28<sup>th</sup>  
 , uTk; gfYk; xNu epi yapy; VwgLk; ehl fS;  
 a. **khhr; 21> nrgj kgh; 23**      b. Nk 18> brkgh; 20  
 c. [ d t hp 14> [ b; 16      d. [ \_d; 20> brkgh; 28

148. The trees that are found in the forests where there is 100 cm of rainfall are

- a. cedar and oak      **b. sal and teak**  
 c. pine and walnut      d. babul and palmyra  
 100 nr.kPk; o ngaAk; fhLfSpYSS kuqfS?  
 a. rpl hh; kwWk; xF;      **b. rhy; kwWk; Nj fF**  
 c. i gd; kwWk; t hyl ;      d. ghG+y; kwWk; gi d

149. The metal, first used by human beings and the Indian State where it is found

- in plenty are  
 a. Iron, Orissa      b. Copper, Andhra Pradesh  
 c. Iron, Madhya Pradesh      **d. Copper, Rajasthan**  
 kdji dhy; Kj d; Kj ypy; gadgLj j ggl l cNyhfK; kwWk; , J mj pfkhf  
 cSS , ej pa khepyk;  
 a. , UKG> xhprh      b. nrkG> Mej pu gpuNj rk;  
 c. , UKG> kj j pa gpuNj rk;      **d. nrkG> , uh[ ] j hcl;**

150. As per which Article, the president of India is empowered to declare financial

- emergency  
 a. Article 352      b. Article 356  
**c. Article 360**      d. Article 63  
 , ej ruj j gb> , ej pa [ dhj ggj pej p neUff;fbapi d mkygLj j mj pfhuk;  
 gi l j j th?  
 a. ruj j 352      b. ruj j 356      **c. ruj j 360**      d. ruj j 63

$$\text{ml ff t; y} = \frac{1170 \times 100}{9} = 13000$$

**choice : C**

92. , uhKt;pd; j wNghi j a taJ x kwWk;  
j ej j apd; j wNghi j a taJ y vdf

$$x = \frac{y}{2} \Rightarrow y = 2x$$

15 Mz l;fS fF Kddu;

$$y - 15 = 3(x - 15)$$

$$2x - 15 = 3x - 45$$

$$x = 30 \text{ \& } y = 60$$

**Choice wrong**

93. K; j p;T; nj hi f A = 32,865  
n = 6x12 = 72  
nrYj j ggl; nj hi f = pn = 350x72

$$= 25200 \quad N = \frac{1}{12} \left( \frac{n(n+1)}{2} \right) = \frac{1}{12} \times \frac{72 \times 73}{2} = 219$$

$$\text{t; l b} = 32865 - 25200 = 7665$$

$$\frac{PNr}{100} = 7665 \Rightarrow r = \frac{7665 \times 100}{350 \times 219} = 10$$

**choice : C**

94. r : h = 5 : 7  $\Rightarrow \frac{r}{h} = \frac{5}{7} \Rightarrow h = \frac{7r}{5}$

$$\pi r^2 h = 4400$$

$$\text{fdmsT} = 4400 \pi r^2 \frac{7r}{5} = 4400 \Rightarrow r^3 = \frac{4400 \times 5}{22} = 1000$$

$$\therefore r = 10$$

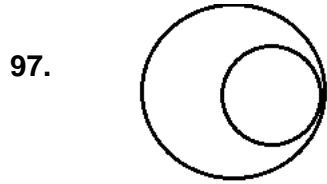
**choice : a**

95. rJuj j pd; gugG = 21x21 = 441 nrk;P  
epyp; l; gFj ;apd; gugG =

choice : C

96. **cstl} i kak; (d)**

choice : D



i kaqfS fF , i lgglnj hi yT=r<sub>1</sub>-r<sub>2</sub>

choice : d

98. Anraj Nti yapd; gFj p =  $\frac{1}{12}$

Bnraj Nti yapd; gFj p =  $\frac{1}{15}$

Cnraj Nti yapd; gFj p =  $\frac{1}{20}$

%tUk; Nrue;J xU ehs;

nraj Nti yapd; mST

$$= \frac{1}{12} + \frac{1}{15} + \frac{1}{20}$$

$$= \frac{5+4+3}{60} = \frac{12}{60}$$

$$kj Kss Nti y = 1 - \frac{12}{60} = \frac{48}{60}$$

AkwWk; C Nrue;J nraAk;

$$Nti yapd; gFj p = \frac{1}{12} + \frac{1}{20} = \frac{8}{60}$$

Nti yKbAk; ehl fs;

$$= \frac{\left(\frac{48}{60}\right)}{\left(\frac{8}{60}\right)} = \frac{48}{60} \times \frac{60}{8} = 6$$

**choice : d**

98.  $\text{rupt fj j pd; gugG} = \frac{1}{2}h(a+b) = 33.32$

$$a+b = \frac{2 \times 33.32}{h} = \frac{2 \times 33.32}{5.6} = 11.9$$

$$b = 11.9 - a = 11.9 - 8 = 3.9$$

**choice : b**

99.  $\text{kj ggfi s VW tui ray; mi kff}$   
7, 9, 10, 12, 13, 15, 17, 21, 24, 24

$$\text{, i lepi y} = \frac{13+15}{2} = 14$$

$$\text{KfL} = 24$$

$$\text{, i lepi y kwWk; KfLfspd; ruhrup} = \frac{14+24}{2} = 19$$

**choice : C**

100.  $x^3 - y^3 = (x-y)^3 + 3xy(x-y)$

$$= (6)^3 + 3(4)(6) = 216 + 72 = 288$$

**choice : d**

101.

$$x^3 - 3x^2 - x + 3 = x^2(x-3) - 1(x-3)$$

$$= (x^2 - 1)(x-3) = (x-1)(x+1)(x-3)$$

$$(x+1) \text{ xU fhuz p vdy; kj Kss fhuz pfs; } (x-1)(x-3)$$

**choice : a**



102.

$$\frac{x}{y} = \frac{5}{3} \Rightarrow x = \frac{5y}{3}$$

$$x - y = 18$$

$$\frac{5y}{3} - y = 18 \quad \text{vdNt vz fs; 27,45}$$

$$5y - 3y = 54$$

$$2y = 54 \Rightarrow y = 27$$

$$x = 27 + 18 = 45$$

**choice : C**

103.

$$\text{LCM} = 105a^2b^2c^2$$

**choice : b**

104.

$$10 \text{ Ngdhffspd; } t_{pww}t_{pi} y = 10x$$

$$11 \text{ Ngdhffspd; } m_l f_f t_{pi} y = 10x$$

$$, y_{hgk}; = 11x - 10x = x$$

$$, y_{hg} r_j t_j k; \frac{x}{10x} \times 100 = 10$$

**choice : a**105.  $G_{qfhtpd}; R_{wvst} = (\pi + 2)r$ 

$$= \left( \frac{22}{7} + 2 \right) \times 14 = \left( \frac{22 + 14}{7} \right) \times 14 = 72$$

$$n_{rythFk}; n_j h_i f = 72 \times 8 = 576$$

**choice : a**106.  $t_l b = 5800 - 5000 = 800$ 

$$\frac{Pnr}{100} = 800 \Rightarrow n = \frac{800 \times 100}{5000 \times 8} = 2$$

**choice : b**

107. j twhd ruhrup = 40  
 j twhd \$Lj y; = 100 x 40 = 4000  
 ruhrup \$Lj y; = 4000 - 83 + 53 = 3970

$$\text{ruhrup ruhrup} = \frac{3970}{100} = 39.7$$

**choice : a**

108. 5vz f;spd; \$Lj y; = 5 x 32 = 160  
 4 vz f;spd; \$Lj y; = 4(32 - 4) = 112  
 eff;fggl j vz ; = 160 - 112 = 48

**choice : C**

109. ghi j apd; gugG = (l + 2w)(b + 2w) - lb  
 = 33x23 - 30x20  
 = 759 - 600 = 159 kP  
 nryhthFk; nj hi f = 159x6 = 954

**choice : d**

110.

$$\begin{aligned} & 2\sqrt[3]{40} + 3\sqrt[3]{625} - 42\sqrt[3]{320} \\ & = 2\sqrt[3]{8x5} + 3\sqrt[3]{25x5} - 42\sqrt[3]{64x5} \\ & = 2x2\sqrt[3]{5} + 3x5\sqrt[3]{5} - 42x4\sqrt[3]{5} \\ & = (4 + 15 - 16)\sqrt[3]{5} = 3\sqrt[3]{5} \end{aligned}$$

**choice : C**

111.

$$\begin{aligned} \angle BAE & = 58^\circ \\ \angle ACB + \angle ABC + \angle BAE & = 180 \\ \angle ABC & = 57^\circ \end{aligned}$$

**choice : C**

$$112. \quad \text{\$kgpd; ti sgugG} = \frac{\theta}{360} x \pi r^2$$

$$= \frac{240}{360} x \frac{22}{7} x 42 x 42 = 3696$$

**choice : b**

$$113. \quad \begin{array}{ccc} \text{MI f;spd;} & \text{Neuk;} & \text{ehl f;spd;} \\ \text{vz z pfj f} & & \text{vz z pfj f} \\ 8 & 9 & 28 \\ 12 & 7 & ? \end{array}$$

$$x = \frac{8}{12} x \frac{9}{7} x 28 = 24$$

**choice : d**

$$114. \quad \text{tPR} = \text{kpng.k} - \text{kp rp kj gg}$$

$$\text{kprp kj gg} = 3.84 - 2.46 = 1.38$$

**choice : a**

$$115. \quad \text{A : B : C} = 2 : 4 : 6 = 1 : 2 : 3$$

vdNt Nfhz qfs;  $x, 2x, 3x$  vdf

$$A + B + C = 180$$

$$x + 2x + 3x = 180 \Rightarrow x = 30$$

vdNt Nfhz qfs;  $30^\circ, 60^\circ, 90^\circ$

**choice : a**

$$116. \quad x = 2 + \sqrt{3}$$

$$\frac{1}{x} = \frac{1}{2 + \sqrt{3}}$$

$$\frac{1}{x} = \frac{1}{2 + \sqrt{3}} x \frac{2 - \sqrt{3}}{2 - \sqrt{3}} = 2 - \sqrt{3}$$

$$x^2 - \frac{1}{x^2} = \left(x + \frac{1}{x}\right) \left(x - \frac{1}{x}\right)$$

$$= (2 + \sqrt{3} + 2 - \sqrt{3})(2 + \sqrt{3} - 2 + \sqrt{3})$$

$$= 4(2\sqrt{3}) = 8\sqrt{3}$$

**choice : b**

117.  $nj\ hi\ yT = 61\frac{2}{3} = \frac{185}{3} > Neuk; = 2\frac{7}{15} = \frac{37}{15}$

$$Nt\ fK; = \frac{\left(\frac{185}{3}\right)}{\left(\frac{37}{15}\right)} = \frac{185}{3} \times \frac{15}{37} = 25\ fK;Kz\ p$$

**choice : a**

FwgG : tpi l fFwgGfs; mi dj;K; nj hi yTpd; myfpi df; nfhz Lssj hy;  
tpi l fs; j twhdj hFk;

118. **choice : b**

119.

$$\frac{4}{5} + \frac{7}{2} \div \left(\frac{5}{2} - \frac{3}{4}\right) \times \frac{7}{8}$$

$$= \frac{4}{5} + \left(\frac{7}{2} \div \frac{7}{4}\right) \times \frac{7}{8} = \frac{4}{5} + 2 \times \frac{7}{8}$$

$$= \frac{4}{5} + \frac{7}{4} = \frac{16 + 35}{20} = \frac{51}{20} = 2\frac{11}{20}$$

**choice : C**

fz ij tpdhffS ffhcd tpi l fFwgGfs;-

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