- 1. What is the cause of fog in Newfoundland? A. condensation B. heavy rainfall C. evaporation D. meeting of hot and cold currents Match the following:
- Column A Column B

D. (iii)

(ii)

#### 1. Cusec (i) Pressure 2. Ryte. (ii) Intensity of earthquake (iii) Rate of flow Richter 4. Bar (iv) Computer memory A. (iv) (i)(ii)(iii) $\mathbf{B}_{i}^{-}(ii)$ (iii) $\{i\}$ (iv)C. (iii) (ii)(i) (iv)

3. What are Westerlies?

(iv)

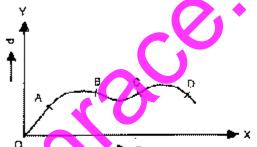
- A. Air moving from one direction to another B. Air blowing from high pressure area to-
- wards temperate regions C. Air raising towards the Poles and descending near 30°N and 30°S
- D. Trade winds which blow about 40°N to the Arctic circle from 35° South to Anteractic circle throughout the year The techniques which are helped in improving
- the crop yield is/are; A. selection B. hybridization
  - D. all of the above C. mutation
- 5. Tides in the sea are caused by: A. effect of moon
  - B. offect of sun C. combined effect of moon and sun D. none of the above

A. light rays are emitted

hole:

- B. the X-rays are emitted
- C. radio-active rays are emitted D. alpha and gamma rays are emitted
- 7. In the figure given below position-time graph is depicted. Indicate the region where speed increases with time:

Mark the correct statement regarding the black



B. both at OA -- DE OA

BC

- DE DE
- The star shine because they obtain energy by: A. Nuclear fission reactions.
  - B. Nuclear fusion reactions
  - C. Bio-chemical reactions
- D. Gravitational reactions The recently developed technique or monitor
  - ing feetal growth uses: A. microwave B. ultrasonics
  - C. ultraviolet rays D. X-rays
- 10. Ice skating can be used to demonstrate that when ice is under pressure, its:
  - A. melting point is lowered

- B. melting point is raised C. melting point remains unchanged
- D. co-efficient of friction with metal is reduced
- 11. The drugs caffeine, tobacco, tannim, nicotine are:
  - A. mild alkali's B. alkaloids C. corfizones D. steroids
- 12. Coral is the: A. remains of any animal
  - B. sea-plant C. deposits of a sea animal D. deposite of a sea animal
- 13. Opium is obtained from: A. dried leaves of the plant
  - B. the roots of the plant C. dried seeds of the plant as oil
- D. unripe capsules as latex 14. Azolla can fix atmospheric nitrogen because

of its association with:

- B. fungus A. bacteria. C. blue-green algae D. green-algae
- 5. Match the following two columns and tick the

### correct answer from the codes given below: Family Crop (i) Gra miacae 1. Cotton (ii) Leguminosae 2. Brinjal (iii) Malvaceae Sugarcane 4. Groundnut (iv) Solanaceae iii) A. (i) (iv)

B. (iii) (i) (lv)(H)C. (iii) (iv)  $\{ii\}$ D. (ii) (h) (0)(iii)

А прицежение

16. Which one of the following is a non metallic mineral?

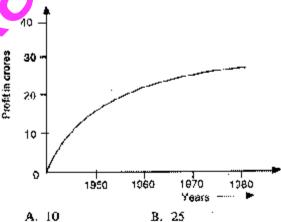
B. magnesium

- 17. Waste products are used in the manufacture of one of the following:
  - A. alcohol bio-gas C. starch D. wine
- 18. Resonance structure of a molecule should have:
  - - A. identical arrangement of atoms B. nearly the same energy content
    - C. the same number of paired electrons D. all of the above
- 19. Secondary valency is: A. less important valency state

C nitchblande

- B. more important valency state C. co-ordination no. of complex
- D. none of the above 20. Radium was discovered from a mineral collect:
  - A. 3011 B. silica
- 21. Given graph is the profit made by CSIR for different years in the curve. From the curve nd the profit for the year 1972.

D. none of the above



- A. 10 C. 28 D. 30
- 22. Lei A =

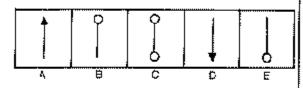
C. 
$$A' = 2A$$
 D.  $A' = -A'$ 

$$|x|^2 - 3|x| + 2 = 0$$
 is:

24. In the power series expansion of 
$$e^x$$
. The value

of 
$$\frac{T_{(*)}}{T_*}$$
 is

$$D_{\nu} r^2 / x$$



## 26. Micro-program is:

- A. the name of programs of very small size
- B. the set of instructions indicating the primitive operation in a system
- C. the name of source program is micro com-

## putera

D, the general name of 'MACRO'S' in assembly language programing

# 27. Group technology brings together and organizes:

- A. common parts, problems and tasks
- B. parts and simulation analysis
- C. automation and tool production
- D. documentation and analysis
- 28. APL is primarily designed for:
  - A. non-mathematical application
  - B. mathematical application C. graphic application
  - D. bussiness application
- 29. Two major processing languages are:
  - A. PROLOG and LISP
  - B. COBOL and FORTRAN
  - C. PLI and PASCAL.
  - D. EASIC and PASCAL
- 30. Position feedback device on NC machine is:
  - A. inductosyns
- B. linear scales
- shaft encoder
- D. any of the above

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1	2	3	4		6	7	8	9	10
D	2 C	D	D		₽	С	В	В	Α
11	12	13	14	15	16	17	18	19	20
B	13 D 22 B	Đ	C	С	C	В	D	С	C
21	22	23	24	25	26	27	28	29	30
Ð	B	A	В	C	В	A	B	Α	D