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D.A.V. PUBLIC SCHOOL, NEW PANVEL

Plot No. 267, 268, Sector-10, New Panvel, Navi Mumbai-410206 (Maharashtra). Phone 022-27468211, 27451793, Telefax- 27482276 Email- davschoolnp@vsnl.net, www.davnewpanvel.com

PREBOARD EXAMINATION 2011-2012 Std:- VIII

Sub: - Science and Technology Date:-10.02.2012

Time:- 3 Hours Marks:- 80

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General Instructions:-

- The question paper consists of 2 sections-Section A(having 21 questions)and Section B(having 09 questions).You are to attempt both the sections.
- All questions are compulsory.
- There is no overall choice. However internal choices have been provided in 3 questions of 5marks category and 3 questions of 2 marks category.
- All questions of section A and all questions of section B are to be attempted separately.
- Questions 1 to 5 in section A and Questions 22 & 23 in section B are multiple choice questions and carry 1 mark each.
- Questions 6 to 11 in section A and Questions 24 and 25 in section B are short answer type Questions and carry 2 marks each.
- Questions 12 to 17 in section A and Questions 26 to 28 in section B are also short answer type Questions and carry 3 marks each.
- Questions 18 to 21 in section A and Questions 29 and 30 in section B are long answer type Questions and carry 5 marks each.

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SECTION – A

1. Which among the following is the wrong statement about the human eye?

(1)

(1)

(1)

- (a) The lens in the human eye is a convex lens.
- (b) It forms a real, inverted image on the retina.
- (c) In people having short sight the image is formed in front of the retina.
- (d) In people having short sight the image is formed at the back of the retina.
- 2. The planet which remains in darkness for 40 years is
 - (a) Uranus (b) Neptune (c) Saturn (d) Jupiter
- 3. Betalguese is a part of
 - (a) Ursa Major (b) Ursa Minor (c) Orion (d) Cassiopeia

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|----------|--|-----|--|--|--|--|--|
| 4. | Find the odd one out | (1) | | | | | |
| | (a) bakelite (b) polythene (c) terylene (d) nylon | | | | | | |
| 5. | Which among the following is true about the synthetic fibre | (1) | | | | | |
| | (a) Synthetic fibres are biodegradable (b) They have low melting point | | | | | | |
| | (c) They have less tensile strength (d) They absorb sweat easily | | | | | | |
| 6. | Reema purchased a CD from a shop. While coming home, she was | | | | | | |
| | thrilled to see a pattern of beautiful colours, when the sunlight fell on it. | | | | | | |
| | Name and define the phenomenon involved. | (2) | | | | | |
| | OR | | | | | | |
| | Draw a ray diagram for convex lens when the object is kept beyond 2F | | | | | | |
| | and write the nature of the image formed. | | | | | | |
| 7. | A board near the swimming pool showed its depth as 8 feet. Manu felt | | | | | | |
| 0 | that the depth was shorter. Explain the reason behind it. | (2) | | | | | |
| 8. | | | | | | | |
| 0 | and sports? Explain it. | (2) | | | | | |
| 9. | Define frequency of a vibrating body. How is it related to pitch of a | (2) | | | | | |
| 10. | person? | | | | | | |
| 10. | | | | | | | |
| | temperature. Then why is it that in summer paper has to be burnt with a burning matchstick where as phosphorous does not require it. | | | | | | |
| | burning matchstick where as phosphorous does not require it. (2) OR | | | | | | |
| | Which gas is produced by burning carbon fuels in limited supply of air? | | | | | | |
| | What are the harmful effects of this gas on human beings? | | | | | | |
| 11. | Give 2 reasons why a person would buy clothes of synthetic fibre. | (2) | | | | | |
| 12. | Give reasons: | (3) | | | | | |
| | (a) Birds make characteristic sounds. | | | | | | |
| | (b) Echoes can be heard in open fields and empty buildings. | | | | | | |
| | (c) People living near railway tracks know well in advance about the | | | | | | |
| | approaching train. | | | | | | |
| 13. | How has global audio visual communication become possible today? | (3) | | | | | |
| 14. | (a) How is luminous zone of a flame different from non-luminous zone? | | | | | | |
| | (b) Why is water not used in controlling electric fires? | (3) | | | | | |
| 15. | (a) Give 2 parameters of potable water. | | | | | | |
| | (b) How can treatment of industrial waste be done? | (3) | | | | | |

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| 16. | (a) Bad taste and odour of water indicates pollution. Can you suggest 2 | | | | | |
|--|---|----------------------|----------------|-----------|--|--|
| | other factors which indicate contar | mination? | | | | |
| 47 | (b) Define chlorination. | | | (3) | | |
| 17. | (a) Rams father could not read the ne | | - | | | |
| | short distance. What defect is he s | suffering from and | how can it be | | | |
| | corrected? | | 1 - 11 - 1 - 1 | | | |
| | (b) Name the most effective resource | used by visually o | challenged | (0) | | |
| 10 | persons. | | | (3) | | |
| 18. | (a) What are the 2 effects of a prism? | fra ativa iradavQ | | | | |
| | (b) What do you mean by absolute ref | | | (2,2,4,5) | | |
| 10 | (c) How is refractive index related to c | | | (2+2+1=5) | | |
| 19. | (a) Explain the internal structure and v | working of the hur | nan ear with | | | |
| diagram. | | | | | | |
| OR Cive 2 hormful offects of paice pollution | | | | | | |
| | Give 3 harmful effects of noise pollution. (b) How does our voice box help in producing sound? | | | | | |
| 20. | (a) Write an activity to show the prese | 0 | urs in the | (3+2=5) | | |
| 20. | innermost zone of candle flame. | | | | | |
| | (b) What are the harmful effects of inc | complete combust | ion of fuels? | (2+3=5) | | |
| 21. | (a) A silk like fibre made from wood p | | (210-0) | | | |
| 21. | the fibre and give 2 of its uses. | | | | | |
| | (b) Give difference between thermoplastic and thermosetting polymer. | | | (3+2=5) | | |
| (b) Give difference between thermoplastic and thermosetting polymer. (3+2-3) | | | | | | |
| (a) Define natural and synthetic fibres giving examples of each. | | | | | | |
| | (b) Name the synthetic fibre which resembles wool. Why is it used for | | | | | |
| | making blankets? | | | | | |
| | 5 | | | | | |
| | SECTION | <u>ON – B</u> | | | | |
| 22. | Which among the following is an eco friendly method of weeding? | | | (1) | | |
| | | (b) tilling before s | | | | |
| | | (d) a and b | - | | | |
| 23. | Select the viviparous animal from the | | | (1) | | |
| | · | (c) rat | (d) bird | | | |
| 24 | What is the difference between water | logging and lodgi | na? | (2) | | |

24. What is the difference between water logging and lodging? (2)

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 Use of fertilizers has caused environmental hazards. Suggest 2 eco friendly ways of replenishing soil fertility.

OR

(2)

(3)

(2+3=5)

Write four characteristic features of Mexican wheat introduced in India to bring Green Revolution.

- 26. (a) What would happen if ploughing is not done before sowing seeds?Mention 2 of its side effects.
 - (b) Give 2 advantages of transplantation. (3)
- 27. Draw a neat and labelled diagram of female reproductive system. (3)
- 28. How is sex of a child determined in human beings?
- 29. (a) How is reproductive pattern in hen different from the reproductive pattern in frog? Explain.
 - (b) Why do binary fission and budding come under asexual reproduction where as reproduction in fishes, frogs and man come under sexual reproduction?
 - (c) Give the functions of (i) testes (ii) ovary
- 30. (a) Discuss the harmful effects of poor nutrition in adolescents.
 - (b) Why are endocrine glands known as ductless glands? Name 2 of them.

OR

- (a) What would happen if the following glands malfunctions:
 - (i) Pancrease (ii) adrenal gland
- (b) What happens if the ovum in the oviduct does not get fertilized?
- (c) What will happen to tadpole if iodine is deficient in pond water?