

Q.2 Write short answers to any Twelve (12) of the following questions.

12 × 2 = 24

1. Draw a symbol for steel.



سٹیل کا سبیل بتائیں۔

2. Describe standard arrow head and its parts.

تیر کے معیاری نشان اور اس کے حصوں کو بیان کریں۔
 جواب: تیر کی لمبائی اور چوڑائی اس کے 1:3 ہوتی ہے اور پریش 1:3 ہوتی ہے۔ اور اس کو H شکل سے بنایا جاتا ہے۔

3. Describe any two conventional breaks with the help of sketches.

خاکہ کی مدد سے کوئی دو روایتی ریکس بیان کریں۔
 جواب: جب کسی Object کو ڈرائنگ شیٹ پر دیکھنا مقصود ہو مگر چم کم ہو تو اس کو چھوٹا کر کے بنایا جاتا ہے۔ اس Object کی لائنوں کو توڑ کر دکھانے کے عمل کو کوٹنریشن ریکس کہتے ہیں۔



4. State the difference between frustum and truncation.

فرسٹم اور ٹرنکیشن کے درمیان فرق بیان کریں۔
 جواب: فرسٹم: جب کسی سولڈ کو اس کے قاعدے کے متوازی کاٹا جائے تو باقی ماندہ حصہ فرسٹم کہلاتی ہے۔
 ٹرنکیشن: جب کسی سولڈ کو اس کے قاعدے کے ساتھ کسی بھی زاویہ پر کاٹا جائے تو باقی ماندہ حصہ ٹرنکیشن کہلاتا ہے۔

5. Define a line of intersection.

لائن آف انٹر ایکشن کی تعریف کریں۔
 جواب: انٹرنیٹنگ Objects، ہائڈز، مختلف سولڈز یا سطحوں کے ملنے سے بنتے ہیں۔ جس جگہ پر یہ آپس میں ملتے ہیں تو یہیں پر ایک لائن دکھائی دیتی ہے جسے جنگلی بناؤٹ کا داروہ دہارنے والی سطحوں کی مابین پر ہوتا ہے۔ اس کو لائن آف انٹر ایکشن کہتے ہیں۔

6. Define sectioning.

سیکشننگ کی تعریف کریں۔
 جواب: Object کو تصوراتی طور پر کاٹنے کے بعد اس کی ڈرائنگ چم کی لائنوں کی بجائے Objects کا سیکشن لائنوں کی مدد سے کی جاتی ہے۔ اس عمل کو سیکشننگ کہتے ہیں۔

7. State the purpose of sectioning.

سیکشننگ کے مقاصد بیان کریں۔
 جواب: جب کوئی Object پیچیدہ ہو اور آسانی سے سمجھ میں نہ آئے تو اس کی ڈرائنگ صحیح نہیں بن پاتی۔ اس مشکل کو دور کرنے کیلئے اس Object کی سیکشننگ کی جاتی ہے تاکہ ڈرائنگ صحیح تیار ہو سکے۔

8. Define fasteners and name its types.

فاسٹنرز کی تعریف کریں اور ان کی اقسام کے نام لکھیں۔
 جواب: یہ ایک پیچا پر زہ ہوتا ہے جس کی مدد سے دو یا دو سے زیادہ حصوں کو آپس میں جڑوا جاتا ہے۔ اس کی دو اقسام ہوتی ہیں۔
 1. مستقل فاسٹرز
 2. عارضی فاسٹرز

9. Differentiate right and left hand threads.

دائیں اور بائیں ہاتھ کے تھریڈز میں فرق بیان کریں۔
 جواب: جب ہٹ ٹھوڑی وار سمت میں گھماتے سے ٹائٹ ہو تا تو اس کو دائیں ہاتھ کی تھریڈز کہتے ہیں۔
 جب ہٹ ٹھوڑی وار کی مخالف سمت میں گھماتے سے ٹائٹ ہو تا تو اس کو بائیں ہاتھ کی تھریڈز کہتے ہیں۔

10. Describe any two locking devices.

کوئی دو لاکنگ ڈیوائس بیان کریں۔
 جواب: سکرنگ واشر: لاکنگ کے اس طریقہ میں سکرنگ یا ڈبلی کو انکڑ واشر کوٹ کے پیچے رکھ کر ٹائٹ کر دیا جاتا ہے جس سے کافی دباؤ اور مزاحمت پیدا ہو جاتی ہے اور ہٹ تھریڈز کو مضبوطی سے پکڑ لیتا ہے۔
 سکر وٹس: اس قسم کے ہٹ کے پیچے بنی ہوئی کارل اسٹیل میں بنی ہوئی چمری میں فٹ ہو جاتی ہے۔ اور اس کو لاک کرنے کیلئے ایک ہیٹ سکر

11. Define a rivet and name its parts.

ریت کی تعریف کریں۔ اور اس کے حصوں کے نام لکھیں۔



جواب: ریت ایک سنڈر شکل والا ہوتی ہے جس کے ایک سرے پر ہیڈ اور دوسرے سرے پر دم ہوتی ہے۔ درمیانی حصہ شینک کہلاتا ہے۔

12. Define caulking process in riveted joints.

روئٹ جوائنٹ میں کالکنگ کے عمل کو بیان کریں۔

جواب: اس طریقہ میں پائٹ اور ریجٹ کے کناروں کو پرس کر دیا جاتا ہے اس کام کیلئے جوائنٹ استعمال ہوتا ہے اس کی موتائی تقریباً 1 ملی میٹر اور چوڑائی 38 ملی میٹر ہوتی ہے۔ اس عمل سے جوائنٹ پر دھک ہو جاتا ہے۔

13. Define key way and key seat.

کی وے اور کی سیٹ کی تعریف کریں۔

جواب: ایسی چمری جو ہب میں کافی جاتی ہے تاکہ اس میں Key لگائی جاسکے۔

14. Define cotter and name its types.

کاوٹر کی تعریف کریں اور اس کی اقسام کے نام لکھیں۔

جواب: اس کی بناؤٹ دو تھک چمکی ہوتی ہے اور کر اس کشن مستطیل نما ہوتا ہے۔ دو رائلز کو جوڑنے کیلئے استعمال کی جاتی ہے۔

15. Name the parts of a ball bearing.

Separator / Cage - Inner race - Ball - Outer Race

16. Define shaft coupling.

ٹائٹ کپلنگ کی تعریف کریں۔

جواب: شافٹس زیادہ سے زیادہ یا 10 ملی میٹر لمبائی میں تیار کی جاتی ہیں اگر زیادہ لمبائی درکار ہو تو یا دو سے زیادہ شافٹوں کو جڑوا جاتا ہے اس مقصد کیلئے استعمال ہونے والی ڈبلی وٹس کو شافٹ کپلنگ کہتے ہیں۔

17. Describe a working drawing.

ورکنگ ڈرائنگ کو بیان کریں۔

جواب: ایسی ڈرائنگ جس میں ہر پارٹ کو بڑی وضاحت سے بنایا جائے تاکہ اس کو تیار کرنا اور کرکیلئے آسان ہو اور تیار کیلئے تمام معلومات درج ہوں۔ اس کے علاوہ کسی بھی ڈرائنگ کی ضرورت نہ ہو اور ٹک ڈرائنگ کہلاتی ہے۔

18. Define allowance with the help of sketch.

خاکہ کی مدد سے ان ولس کی تعریف کریں۔

جواب: دو اسبیل ہونے والے پارٹس کے درمیان جو جیتائی گنجائش ہوتی ہے اس کو ان ولس کہتے ہیں۔



Note: Attempt any two (2) questions.

2 × 8 = 16

2. Explain the following section

مندرجہ ذیل سیکشنز کی وضاحت کریں۔

(i) Revolved section

(ii) Removed section

3. Explain technical terms used in riveted joints with the help of a neat sketch

خاکہ کی مدد سے روئٹ جوائنٹس میں استعمال ہونے والی فنی اصطلاحات کی وضاحت کریں۔

4. State the types of high friction bearing.

ہائی فرکشن بیرنگ کی اقسام بیان کریں۔

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